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ENVIRONMENT
& HEALTH

Mr. Josh Hesselbein
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RE: Whirlpool Corporation - Fort Smith, Arkansas
First Quarter 2016 Progress Report
EPA No. ARD042755389
AFIN No. 66-00048
CAO LIS 13-202

Date May 13, 2016

Dear Mr. Hesselbein:

Ramboll Environ US Corporation (Ramboll Environ) has prepared the enclosed First Quarter 2016 Progress Report in accordance with the Final Remedial Action Decision Document (RADD) for the Arkansas Department of Environmental Quality (ADEQ) consideration. This report presents project activities during the First Quarter of 2016.

If you have any questions or comments please contact me at your earliest convenience

Yours sincerely

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Robert Karwowski – Whirlpool Corporation





First Quarter 2016 Progress Report

Whirlpool Facility
Fort Smith, Arkansas

Prepared for:
Whirlpool Corporation

Prepared by:
Ramboll Environ US Corporation

Date:
May 2016

Project Number:
34-37500O

RAMBOLL ENVIRON

First Quarter 2016 Progress Report
January 1, 2016 through March 31, 2016
Whirlpool Facility - Fort Smith, Arkansas

1. INTRODUCTION

This quarterly report has been prepared in accordance with the Remedial Action Decision Document (RADD) issued by the Arkansas Department of Environmental Quality (ADEQ) on December 27, 2013 and updated in November 2015, for the Whirlpool Fort Smith, Arkansas, site (Site). This First Quarter Progress Report (Report) is not forward looking. This report includes a description of the work completed during the first quarter of 2016, findings of the activities completed in this reporting period, issues identified and resolved, and deviations or schedule adjustments from plans and correspondence submitted to the ADEQ. Details supporting the Summary of Findings are provided in the documents attached to this Report.

2. SUMMARY OF FINDINGS

- Groundwater monitoring data suggests natural attenuation of trichloroethene (TCE) is continuing to occur via biological and other natural attenuation mechanisms in both onsite and offsite groundwater.
- The location of the hydraulic divide between the north and south groundwater plume boundaries continued to be south of Ingersoll Avenue, which is consistent with previous reporting periods and historic results.
- The installation of eight sentinel wells to the south of the former manufacturing building has refined the understanding of the southern flow regime where the hydraulic gradient is gradual to the south beneath the facility but steepens to the east and to the southwest beyond the former manufacturing building.
- First quarter groundwater monitoring data re-confirms broadly stable to decreasing trends for TCE concentrations.
  - Plume boundary well data continue to show results generally consistent with historical TCE concentrations although trends in the northern portion of the plume near MW-61R should continue to decrease due to in-situ chemical reduction (ISCR) injections.
  - Offsite groundwater data are similar to previous monitoring events and continue to show predominantly stable to decreasing TCE concentration trends.
  - Onsite groundwater data continue to show predominantly stable to decreasing TCE concentration trends. The data demonstrates the positive influence of the in-situ chemical oxidation (ISCO) injections.
- Based on first quarter groundwater data, the average minimum and maximum quantities of TCE in groundwater associated with the Site has been assessed again for the north, south, and northeast groundwater plumes. The quantity of TCE in the north plume is estimated to range from less than 1 gallon to 2 gallons, the total quantity of TCE in the south plume is estimated to range from 9 to 31 gallons, and the quantity of TCE in the northeast plume is estimated to contain less than 1 gallon; for a combined volume of TCE in groundwater ranging from 11 to 34 gallons. See Section 4 of this report for the total estimated quantity of TCE in groundwater and soil at the site.

- Risk estimates for vapor intrusion from groundwater in the neighborhood remain below ADEQ's risk management limits of 10^{-4} and 1 for cumulative cancer risk and non-cancer hazards, respectively.
- Vapor intrusion modeling using perched water confirms the modeling results using volatile organic compound (VOC) concentrations in water collected from groundwater monitoring wells.
- There are no identified TCE impacts to offsite surface water or sediment.
- Monitoring to assess the impact of ISCO injection events measured decreases in TCE concentrations in groundwater source area wells, the supplemental neck area, and Areas 2 and 3 of approximately 74%, 93% and 86%, respectively from 2014 through the first quarter of 2016.
- Monitoring to assess the impact of ISCR injection has shown TCE concentration decreases in area wells by up to 90%.
- Assessment of indoor air data from the former Whirlpool manufacturing building indicates that no health risks exist from indoor air and vapor intrusion as documented in the attached report (Attachment D).

3. REVIEW OF ACTIVITIES COMPLETED – FIRST QUARTER 2016

During the weeks of January 4 and January 11, 2016, First Quarter 2016 groundwater samples were collected via low flow sampling methodologies. Groundwater samples were collected from a total of 104 wells to assist in evaluating the entire Site including the northeast corner, Boys and Girls Club property, ISCO monitoring, ISCR pilot study monitoring, and plume definition. The groundwater samples were analyzed for parameters as outlined in the RADD except for perched groundwater wells and select temporary ISCR monitoring wells which were analyzed for VOCs only.

In addition to the RADD required sampling, additional groundwater samples were collected from select wells concurrent with the first quarter groundwater sampling event to evaluate the performance of ISCO and ISCR events completed in accordance with ADEQ approved permits. The data from the ISCO and ISCR performance monitoring is presented and evaluated in the First Quarter 2016 Groundwater Monitoring Report (Attachment A).

Key first quarter observations based on the groundwater monitoring data include the following:

- The groundwater potentiometric surface observed during the first quarter event is consistent with that historically observed at the Site except for the addition of a southwestern gradient in the southern plume identified due to the installation of sentinel wells.
- The direction of the lateral hydraulic gradient continues to be influenced by a divide located just south of Ingersoll Avenue with directions of the hydraulic gradient predominantly to the northeast and south on either side of the general divide.

  - Groundwater north of the divide is flowing in a northeasterly direction; and
  - Groundwater south of the divide is flowing in a south/southeasterly direction with a southwest component at the southwest corner of the facility.

- First quarter event groundwater monitoring data shows predominantly stable to decreasing trends for TCE concentrations.
  - Plume boundary well data continue to show results predominantly consistent with historical TCE concentrations although trends in the northern portion of the plume near MW-61R are anticipated to decrease even further or more rapidly due to ISCR injections;
  - Offsite well data are similar to previous monitoring events and continue to show stable to decreasing TCE concentration trends; and
  - Onsite well data continue to show predominantly stable to decreasing TCE concentration trends; the data reflects the impact of the ISCO injections.
- The chemical, geochemical and microbial data from the first quarter event are similar to the quarterly monitoring events in 2014 and 2015. The VOC results demonstrate that reductive dechlorination is occurring in various locations both on and offsite.
- The ISCO events performed in 2014 and 2015 continue to be effective with TCE concentration reductions through the first quarter of 2016 as follows:
  - Approximately 74% decrease at source area wells MW-25, MW-85 and MW-86;
  - Supplemental neck area decrease of approximately 93% since May 2014; and
  - Approximately 86% decrease at wells in Areas 2 and 3.
- The ISCR event performed in September/October 2015 is proving to be effective with TCE concentrations reducing as follows:
  - The sum of the TCE concentrations for MW-61R, TMW-10 and TMW-11, 60 days after ISCR injection, showed a decreasing concentration trend from approximately 238 micrograms per liter (µg/L) to 110 µg/L (~54% decrease).
  - Monitoring to assess the impact of ISCR injection has shown TCE concentration decreases in area wells by up to 90%.

During the first quarter of 2016, a soil vapor sampling event was attempted on January 11 through 13 and February 18, 2016. Soil vapor samples were not able to be collected this quarter. VP-9 did not contain water but collection of a soil vapor sample was not possible even after maintaining a sustained vacuum. Perched water filled the vapor points at locations VP-5, VP-6, VP-7, VP-8, VP-10, VP-12, VP-14, and VP-15. The water in these vapor sampling points could not be purged from the sampling train. Water samples were collected from these points.

Key first quarter observations based on the soil vapor and shallow groundwater monitoring data include the following:

- Risk estimates for potential vapor intrusion from offsite groundwater into offsite residences are below ADEQ's risk management limits of 10^{-4} and 1 for cumulative cancer risk and non-cancer hazards, respectively.
- Vapor intrusion modeling using perched water confirms the modeling results using VOC concentrations in water collected from groundwater monitoring wells.

The First Quarter 2016 Soil Vapor Monitoring/Vapor Intrusion Report further discusses the sampling event as well as evaluates the water and soil vapor data. This report is included as Attachment B.

Indoor air monitoring was performed in the Whirlpool manufacturing building on February 18, 2016 and soil sub-slab soil vapor data was collected from beneath the floor of the Whirlpool building on February 24, 2016. The report is provided as Attachment D. The indoor air data do not indicate health risks from vapor intrusion in the building when it is operating under normal conditions. The groundwater, soil and soil vapor data from beneath and around the building indicate that if floor penetrations were to occur in the future, a potential exists for contaminants in the subsurface to volatilize and migrate into the indoor air in some parts of the building.

4. QUANTITY OF TCE

Estimated average minimum and maximum quantities of TCE in groundwater were calculated for the Site using the results of the first quarter groundwater monitoring event. The distinction between the north and south groundwater plumes is identified based upon the consistent groundwater divide north of the Whirlpool manufacturing facility and south of Ingersoll Avenue and the reduction or elimination of TCE in groundwater near the hydraulic barrier. The quantity of TCE calculations are based on separating the northern and southern plumes at the hydraulic divide at the location of MW-24 (see Figures 2A and 2B, Attachment A – First Quarter 2016 Groundwater Monitoring Report). The quantity of TCE in the northeast plume is also included in the calculations.

The estimated quantities of TCE included calculation of the volume of groundwater based upon the distinct areas within the plumes (i.e. area of plume within the isoconcentration lines on Figures 2A and 2B of Attachment A), average saturated thickness and total porosity (i.e. area x average saturated thickness x porosity = volume of water). The volume of water and minimum and maximum TCE concentrations based upon the plume boundaries were used to calculate the mass of TCE within each section of the plume. The volume of TCE was then determined based upon the specific gravity of TCE. Parameters used in the calculation of TCE quantities are presented below. Calculations are presented in Attachment C, Table 2.

Northern plume parameters:

- Plume area of approximately 463,000 square feet (ft^2) consisting of 303,000 ft^2 for the portion of the plume with TCE concentrations ranging from 5 µg/L to 100 µg/L; 160,000

ft^2 for the portion of the plume with TCE concentrations ranging from 100 µg/L to 1,000 µg/L; and no portion of the plume exhibits TCE concentrations greater than 1,000 µg/L;

- Average saturated thickness of 3.7 feet (see Attachment C, Table 1);
- Total porosity of 0.4; and
- TCE specific gravity of 1.465.

Southern plume parameters:

- Plume area of approximately 1,116,000 ft^2 consisting of approximately 471,000 ft^2 for the portion of the plume with TCE concentrations ranging from 5 µg/L to 100 µg/L; 433,000 ft^2 for the portion of the plume with TCE concentrations ranging from 100 µg/L to 1,000 µg/L; 185,000 ft^2 for the portion of the plume with TCE concentrations ranging from 1,000 µg/L to 10,000 µg/L; and 27,000 ft^2 for the portion of the plume with TCE concentrations greater than 10,000 µg/L, (the southern plume delineation has been refined to reflect additional data resulting from the installation of down-gradient well MW-182 and further down gradient sentinel wells);
- Average saturated thickness of 8.3 feet (see Attachment C, Table 1);
- Total porosity of 0.4; and
- TCE specific gravity of 1.465.

Northeastern plume parameters:

- Plume area of approximately 240,000 ft^2 consisting of 160,000 ft^2 for the portion of the plume with TCE concentrations ranging from 5 µg/L to 100 µg/L; and, 80,000 ft^2 for the portion of the plume with TCE concentrations ranging from 100 µg/L to 1,000 µg/L;
- Average saturated thickness of 4.4 feet (see Attachment C, Table 1);
- Total porosity of 0.4; and
- TCE specific gravity of 1.465.

Based on the plume information listed above, the following ranges of the quantities of TCE distributed throughout the respective plumes were calculated:

Plume Location	Calculated Minimum Volume	Calculated Maximum Volume
Northern Plume	Less than 1 gallon	2 gallons
Southern Plume	9 gallons	31 gallons
Northeastern Plume	Less than 1 gallon	1 gallon

Therefore the total average minimum and maximum quantities of TCE in groundwater associated with the Site are approximately 11 to 34 gallons of TCE.

As described in the "Response to ADEQ Comments on the Fourth Quarter 2015 Progress Report" (April 2016), the combined estimated quantity of TCE currently adsorbed in unsaturated and saturated soil and the TCE dissolved in the three groundwater plumes is estimated to range from approximately 20 to 70 gallons based upon investigation and monitoring events at the Site. The combined estimated quantity of TCE ranging from approximately 20 to 70 gallons consists of:

- Six to 26 gallons of TCE in unsaturated soil (source area dimensions adjusted to 250 feet long, 10 feet wide and an average thickness of unsaturated soil of 18.5 feet);
- One to 8 gallons of TCE in saturated soil;
- Nine to 31 gallons of TCE in groundwater in the south plume;
- Less than 1 to 2 gallons of TCE in groundwater in the north plume; and
- Less than 1 gallon of TCE in groundwater in the northeast plume.

5. DATA AVAILABLE IN THIS QUARTER

Analytical data for the 104 wells sampled, including water levels from this sampling event, are included in the First Quarter 2016 Groundwater Monitoring Report included as Attachment A.

Analytical data for the soil vapor monitoring are included in the First Quarter 2016 Soil Vapor Monitoring/Vapor Intrusion Report included as Attachment B.

Calculations for the estimation of TCE mass for the first quarter are included as Attachment C.

Indoor air and sub-slab soil vapor data was collected from the former Whirlpool manufacturing building and the results are provided as Attachment D.

6. ISSUES ENCOUNTERED AND RESOLUTION

No issues where encountered during the first quarter of 2016.

7. SCHEDULE

There are no schedule deviations to report in the first quarter of 2016.

LIST OF ATTACHMENTS

VOLUME 1

Attachment A: First Quarter 2016 Groundwater Monitoring Report

VOLUME 2

Attachment B: First Quarter 2016 Soil Vapor Monitoring/Vapor Intrusion Report
Attachment C: TCE Mass Calculations
Attachment D: Onsite Indoor Air and Sub-slab Soil Vapor Data Report



ATTACHMENT A
First Quarter 2016 Groundwater Monitoring Report
Whirlpool Facility
Fort Smith, Arkansas

Prepared for:
Whirlpool Corporation

Prepared by:
Ramboll Environ US Corporation

Date:
May 2016

Project Number:
34-37500O

Author

Professional Geologist/Reviewer

STATE OF ARKANSAS
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Appendix B: Laboratory Analytical Data
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1 Introduction

Ramboll Environ US Corporation (Ramboll Environ) has prepared this First Quarter 2016 Groundwater Monitoring Report (Report) for the Fort Smith, Arkansas, Site (Site) on behalf of Whirlpool Corporation (Whirlpool). The work was performed and the report prepared in accordance with the Remedial Action Decision Document (RADD) issued by the Arkansas Department of Environmental Quality (ADEQ) on December 27, 2013, and updated in November 2015, ADEQ comment letters, and Ramboll Environ/Whirlpool responses to previous quarterly monitoring reports[1].

Whirlpool has been monitoring the groundwater at the Site since 1989. This report is Attachment A of the First Quarter 2016 Progress Report for the Site.

This report describes the results of the groundwater monitoring event performed between January 6, 2016, to January 8, 2016, and January 11, 2016, to January 14, 2016. This event included measuring water levels on January 6, 2016, from 108 wells followed by the collection of groundwater samples from 104 wells consisting of 76 wells denoted as plume boundary, onsite, or offsite wells according to the RADD plus two wells sampled on the Boys and Girls Club property (MW-183 and MW-184), six wells sampled for in-situ chemical oxidation (ISCO) monitoring (MW-23, MW-24, MW-81, MW-82, IW-101, IW-115), two wells sampled for in-situ chemical reduction (ISCR) (TMW-10 and TMW-11) and seventeen additional wells sampled to support the evaluation of the source area, plume boundary and shallow groundwater.

[1] ADEQ Comments on the First Quarter Groundwater Report dated June 13, 2014; Ramboll Environ/Whirlpool responses dated July 15, 2014; ADEQ Supplemental Comments on the First Quarter Groundwater Report dated July 31, 2014; and, Ramboll Environ/Whirlpool response dated September 3, 2014. ADEQ Comments on Second Quarter Progress Report dated September 17, 2014, and Ramboll Environ/Whirlpool responses dated October 22, 2014. ADEQ Comments on the Third Quarter Progress Report dated January 12, 2015, and Ramboll Environ/Whirlpool responses dated February 3, 2015. ADEQ Comments on the Fourth Quarter Progress Report dated May 20, 2015, and Ramboll Environ/Whirlpool responses dated June 25, 2015. ADEQ Comments on the First Quarter 2015 Progress Report dated June 12, 2015 and Ramboll Environ/Whirlpool responses dated July 15, 2015. ADEQ Comments on the First Quarter 2015 Progress Report dated August 3, 2015, and Ramboll Environ/Whirlpool responses dated September 9, 2015. ADEQ Comments on the Second Quarter 2015 Progress Report dated September 14, 2015, and Ramboll Environ/Whirlpool responses dated October 16, 2015. ADEQ Comments on the Third Quarter 2015 Progress Report dated December 10, 2015, and Ramboll Environ/Whirlpool responses dated January 13, 2016. ADEQ Comments on the Fourth Quarter 2015 Progress Report dated February 29, 2016, and Ramboll Environ/Whirlpool responses dated April 8, 2016.

2 Groundwater Sample Collection and Onsite Activities

Ramboll Environ performed the First Quarter 2016 Groundwater Monitoring Event (First Quarter event) on behalf of Whirlpool during the weeks of January 4 and 11, 2016. Activities performed during the monitoring event included measuring water levels in site wells and collecting groundwater samples for analysis of volatile organic compounds (VOCs) and monitored natural attenuation (MNA) parameters.

Constituents of concern (COCs) in groundwater as identified by the RADD for this Site include trichloroethene (TCE) and related degradation (i.e. daughter) products (Table 1). The groundwater monitoring wells listed in the RADD for compliance with quarterly monitoring are listed in Table 2. The COCs and additional geochemical parameters were analyzed in collected groundwater samples to evaluate the effectiveness of MNA in support of the natural degradation of site related chlorinated compounds.

The following sections describe the groundwater monitoring activities completed during the First Quarter event.

2.1 Static Water Level Measurements

On January 6, 2016, static water levels and total well depths were measured in a total of 108 monitoring wells. Monitoring wells were opened to allow water levels to equilibrate to atmospheric conditions prior to their measurement using an electronic water level meter. The instrument was calibrated by the manufacturer prior to its purchase and therefore does not require calibration in the field. The water levels were measured to the nearest 0.01 foot with an accuracy of 0.02 feet per the manufacturer's specification. The water level meter probe and tape (i.e. the only non-dedicated sampling equipment) were decontaminated prior to use at each well by spraying and scrubbing the probe and tape with Alconox detergent mixed with distilled water and then rinsing the probe and tape with distilled water prior to being wiped dry.

The First Quarter event static water level measurements are presented in Table 3 along with the previous four quarters of water level measurements recorded from project wells.

2.2 Monitoring Well Sampling

After static water level measurement activities were completed, low-flow sampling was performed at each well via the use of a peristaltic pump and dedicated polyethylene tubing. The tubing was placed at a depth within the well approximately equal to the midpoint of the well screen. The wells were then purged, via United States Environmental Protection Agency (USEPA) Low Stress (low flow) purging procedures (USEPA, 1996); at a rate generally less than 0.1 liters (L) per minute to minimize the amount of drawdown in the well and to reduce the likelihood of elevated turbidity. Flow rates and drawdown were checked continuously during purging. Purge water was then placed into a container prior to transfer to the onsite water holding tank for ultimate proper disposal.

Water quality parameters were measured via a water quality probe and flow thru cell. Instruments were calibrated daily prior to the start of sampling. All instruments were calibrated at a minimum of once per day. Calibration logs are included as Appendix A. Readings were recorded approximately every five minutes until the parameters stabilized. Stabilization was considered obtained when three consecutive rounds of parameter readings met the following:

- Turbidity: +/- 10% for values greater than 10 Nephelometric Turbidity Unit (NTU), or less than 10 NTU;
- Dissolved Oxygen (DO): +/- 10% for values greater than 0.5 milligrams per liter (mg/L);
- Specific Conductance: +/- 3%;
- Temperature: +/- 1^{o}C;
- pH: Within +/- 0.1 standard units; and
- Oxidation Reduction Potential (ORP): Within +/- 10 millivolts (mV).

Table 4 presents a summary of results for measured field parameters for the 2016 First Quarter event.

The groundwater samples were obtained by directly filling the laboratory provided sampling bottles from the pump discharge. VOCs were collected in three 40 milliliter (mL) glass vials that contained hydrochloric acid as a preservative per standard procedures. Samples for assessing Quality Assurance/Quality Control (QA/QC) metrics were collected by alternately filling investigative and QA/QC sample bottles for each parameter. VOC sample bottles for both the investigative and the QA/QC sample were completely filled, purged of headspace and sealed. All other samples (i.e. for non VOC analysis) were collected in appropriate bottles as specified by the method and/or laboratory. Hach Test Kits (all verified with valid expiration dates) were used to measure ferrous iron in the field. Groundwater samples for analysis of dissolved hydrogen concentration were collected by the Microseeps gas stripping procedure (Microseeps, 2014).

A total of 104 groundwater samples, ten field duplicate samples, five matrix spike/matrix spike duplicate (MS/MSD) samples and seven equipment blanks were collected during the 2016 First Quarter event. Duplicate samples were taken at a frequency of one duplicate sample per 10 groundwater monitoring samples. Duplicate samples were collected from ITMW-9, ITMW-10, ITMW-11, ITMW-13, MW-40R, MW-41R, MW-58R, IW-74, MW-87 and MW-91.

Because monitoring wells contain dedicated or new tubing, the only equipment transferred and used from well to well is the water level meter used to monitor well water levels during purging and stabilization prior to sampling and tube weights. Equipment rinsate blanks were collected after each of the seven water level meters used during the monitoring event were decontaminated to evaluate field decontamination procedures. Equipment rinsate blanks were collected by pouring ASTM Type II deionized water over the decontaminated water level meter probe and tape into the appropriate sample containers. The rinsate blanks were collected after decontamination procedures at MW-33R (FB-01-201601 at 14:40), MW-71 (EB-02-201601 at 17:50), MW-46R (EB-03-2010601 at 17:10), MW-20 (EB-04-201601 at 16:30),MW-86 (EB-05-201601 at 16:45) MW-172 (EB-06-201601 at 16:50) and MW-193 (EB-01-201601 at 17:13). The

preservation and analysis of the equipment rinsate blanks was identical to those of the associated environmental samples.

Sample containers were labeled and packed on ice in insulated coolers before being shipped under chain of custody via overnight courier or FedEx to Pace Analytical Services in Lenexa, Kansas (VOC and MNA parameters), via FedEx to Microseeps in Pittsburg, Pennsylvania and via FedEx to Microbial Insights in Knoxville, Tennessee (Microbial parameters). Chain of custody procedures were followed from the point of sample collection through completion of analysis. The laboratories used infrared thermometers to take sample temperatures upon sample receipt in accordance with USEPA "Manual for the Certification of Laboratories Analyzing Drinking Water" fifth edition.

2.3 Other Site Monitoring Activities

During this quarter, groundwater samples were also collected from MW-173 through MW-177 and MW-179 through MW-181. These wells are screened shallow to assist in evaluating the potential for vapor intrusion from groundwater and as such the data from these wells is further discussed in Attachment B, First Quarter 2016 Soil Vapor Monitoring and Vapor Intrusion Assessment Report.

Due to slow recovery rates, low-flow sampling techniques were not used at MW-173, MW-174, MW-179 and MW-180. These wells were purged dry once and were then allowed to recover prior to collection of the sample. The recovery rates and subsequent sampling for the indicated wells were all less than 24 hours. Adequate sample volume was present for all analytical fractions from the wells designated for sampling with the exception of MW-83, MW-84, MW-97 and MW-98 for Hydrogen analysis. See Section 3.4 Data Quality Assessment for additional information.

3 Results

The following sections present a discussion of the hydrogeology, analytical methods, the results of the laboratory analyses and an assessment of data quality and usability.

3.1 Hydrogeology

Gradient

Water levels from 108 wells at the Site were collected during the First Quarter event (Table 3) as discussed in Section 2.1. These wells were monitored during this event to provide potentiometric information regarding groundwater flow direction at the Site.

The static water level measured in the wells ranged from less than a foot to just over 23 feet below top of the well casing (btwc) during the monitoring event. Figure 1A shows the contours of the groundwater elevations based on the monitoring well static water level measurements completed on January 6, 2016, for this First Quarter event. Based on the current potentiometric maps, the lateral hydraulic gradient, as an indication of the likely direction of groundwater flow, appears to be generally consistent with historical conditions, a groundwater gradient divide trends west to east north of the facility building. The hydraulic gradient is near zero in the area that extends from the western portion of the north parking lot near Ingersoll Avenue to just north of Jacobs Avenue. North of Jacobs Avenue, the hydraulic gradient is directed to the north/northeast. South of this flat area, near the facility building, the direction of the hydraulic gradient is to the southeast then begins to trend to the northeast at the northeastern extent of the facility. The installation of eight additional (sentinel) wells to the south has refined the understanding of the southern flow regime (Ramboll Environ, 2015). The second round of groundwater data collected since installation of the sentinel wells continues to indicate a potential second gradient divide beneath the facility, the axis of which trends from northwest to southeast. The gradient(s) steepen to the east-northeast east of the former manufacturing building and southwest beyond the extent of the former manufacturing building.

A linear interpolation of the gradient between four groups of wells was completed in order to assess the groundwater flow direction and gradients as follows:

- Southeast from MW-25 to MW-192, 0.001 feet/foot;
- Southwest from MW-182 to MW-186, 0.01 feet/foot;
- Southwest from ITMW-5 to MW-187, 0.005 feet/foot; and
- Northeast from MW-87 to MW-183, 0.018 feet/foot.

Although the gradient remains relatively flat beneath the building (i.e. 0.001 feet/foot), the gradient steepens somewhat towards the southwest at the southwest corner of the building. The gradient increases from 0.005 feet/foot to 0.01 feet/foot towards the southwest based upon the January 2016 water level measurements.

Shallow Monitoring Wells

Groundwater elevations from shallow groundwater wells (MW-174 through MW-177) located along the north side of Jacobs Avenue and MW-178 (located immediately south of Ingersoll Avenue) were used to evaluate shallow horizontal gradient. Static water levels along Jacobs Avenue decrease from west to east; from a high of 469.97 feet at MW-177 to a low of 459.71 feet at MW-174. The calculated shallow groundwater gradient west to east based on these two wells is 0.01 feet/foot. Static water levels in the nearby deeper groundwater wells also decrease from west (MW-70, 464.77) to east (MW-63R, 460.93) with a resulting gradient of 0.005 feet/foot. The highest shallow groundwater elevations were measured in MW-178 and adjacent shallow well MW-180 (471.93 feet and 471.81 feet, respectively). These results suggest that the shallow groundwater horizontal flow gradient mimics the deeper groundwater flow gradient to the east/northeast. The number and location of shallow groundwater monitoring wells limit this interpretation.

Groundwater elevations from shallow groundwater wells MW-174 through MW-178 were also compared to groundwater elevations from nearby deeper monitoring wells to evaluate vertical gradient. MW-175 is located approximately at the midpoint between deeper groundwater monitoring wells MW-46R and MW-56R allowing the comparison of groundwater elevations at MW-175 to the average of the groundwater elevations at MW-46R and MW-56R. The vertical gradients are summarized in Table 5. Based on this evaluation observations are as follows:

- Downward vertical gradient (-0.43 feet/foot) at the south western well grouping MW-178/MW-83;
- Downward gradient (-0.5 feet/foot) at MW-177/MW-70;
- Slight upward gradient (0.01 feet/foot) at MW-176/MW-46R;
- Slight downward gradient (-0.02 feet/foot) at MW-175/MW-46R and MW-56; and
- Upward gradient (0.22) at the eastern most well pairing, MW-174/MW-63.

As shown on Figure 1B, the difference in vertical gradients observed during the fourth quarter sampling event were greater at three of the five locations but generally consistent with the previous (fourth quarter) sampling event at the well groupings evaluated. The increase in difference in the vertical gradients may be associated with significant rainfall that occurred in the area just before the monitoring was conducted.

The observed vertical gradients suggest that the vertical gradients vary over time but there is a general trend by location. For the first quarter 2016, there is a downward hydraulic gradient between the silty clayey sand interval and Basal Transmissive Zone to the west that becomes nearly neutral (less than 0.1 feet/foot difference), then slightly upward to the east. The fourth quarter differences at each set of wells used for the comparison were generally smaller in magnitude. Additionally, some evidence suggests that the shallow zone and the Basal Transmissive Zone are connected hydraulically as indicated by similar horizontal gradients and the presence of TCE contamination in both zones.

3.2 Analytical Methods

Seventy-six groundwater samples were collected from plume boundary wells, onsite wells, offsite wells and were analyzed for the following parameters in accordance with the indicated laboratory methods:

- VOCs: SW846 5030B/8260B
- Chloroethanol: SW846 8015
- Total Iron: SW846 6010
- Total Manganese: SW846 6010
- Alkalinity: SM 2320B
- Ferric Iron: SM 3500-Fe B#4
- Sulfide: SM 4500-H+B
- Sulfate: EPA 300.0
- Chloride: EPA 300.0
- Ammonia: EPA 350.1
- Nitrate: EPA 353.2
- Nitrite: EPA 353.2
- Total Nitrogen: EPA 353.2
- Carbon Dioxide: SM 4500-CO2 D
- Total Organic Carbon: SM 5310C
- Phosphate: SM 4500P-E
- Volatile Fatty Acids: AM21G
- Methane: AM20GAX
- Ethane: AM20GAX
- Ethene: AM20GAX
- Acetylene: AM20GAX
- Hydrogen: AM20GAX

Twenty-eight groundwater samples were collected from wells not specifically mentioned in the RADD and were also analyzed for VOCs. Select wells were also sampled for MNA parameters as described above.

The analytical methods listed above are contained in the USEPA's Test Methods for Evaluating Solid Waste (SW-846 Third Edition, 1983); the American Public Health Association (APHA), American Water Works Association (AWWA) and Water Environment Federation (WEF) Joint Editorial Board's Standard Methods for the Examination of Water and Wastewater (SM 2 First Edition, 2005); and Analysis of Dissolved Methane, Ethane and Ethylene in Groundwater by the laboratory modified AM20GAX Standard Gas Chromatographic Technique published in the RSKSOP-175 SOP that was prepared for the use of the Groundwater Ecosystems Restoration Division of the USEPA.

3.3 Analytical Results

All VOC analytical data from all wells were subjected to data validation in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic

Methods Review (August 2014). The laboratory analytical reports for the samples are presented in Appendix B. Summaries of analytical results (i.e. detected compounds) for samples collected during the First Quarter event are presented in Table 6. This table includes data qualifiers that may have been assigned from validation. A discussion of the field and laboratory analytical results for this event is presented below.

3.3.1 VOC Results

This section presents an evaluation of the VOC data that were collected from the Site during the 2016 First Quarter event. TCE results for the First Quarter event are presented on Figures 2A and 2B.

Plume Boundary Wells

As noted within the RADD, 27 monitoring wells are identified as plume boundary wells (Table 2) at the Site. VOC concentrations were detected above the RADD remedial action levels (RALs) (Table 1) in two of the 27 samples collected from the plume boundary wells. Tabulated VOC concentrations measured in these wells during the 2016 First Quarter event are presented in Table 6.

Notable results from the first quarter sampling event include:

- ITMW-6: 1,1-Dichloroethane (1,1-DCA) concentration of 5.2 micrograms per liter (µg/L) (this result is consistent with historical ranges for ITMW-6 and is lower than the highest concentration of 1,1-dichloroethane in October 2013 at 6.7 µg/L);
- MW-36R: Bromomethane concentration of 54.9 µg/L; and
- MW-61R: TCE concentration of 3.9 µg/L.

Consistent with historical analytical results for the Site, all other plume boundary well VOC results were reported as non-detect or at concentrations less than RALs.

TCE was not detected in a boundary well above the RAL (5 µg/L) during the first quarter event.

Offsite Wells

In accordance with the RADD, 14 monitoring wells are identified as offsite wells (Table 2)[2]. The offsite wells include those installed at offsite properties to the north and northeast of the Whirlpool northern property boundary that are not otherwise identified as plume boundary wells. Tabulated VOC concentrations measured in the 14 offsite monitoring wells during the 2016 first quarter event are presented in Table 6.

[2] The north and east property boundaries of the site have been changed to accommodate the expansions of Ingersoll Avenue and Jenny Lind Road, respectively. Therefore, the north property boundary has been moved south of Ingersoll Avenue and the east property boundary moved further west. Several wells to the north previously identified as onsite are now offsite wells. The designation of onsite and offsite wells will be refined and presented in the pending groundwater monitoring plan for the site groundwater monitoring plan as described in the Response to ADEQ Comments on the Fourth Quarter Progress Report (April 8, 2016) and Response to ADEQ Comments on the Two Year Technical Review Report (April 15, 2015).

During the first quarter event, the highest concentration of TCE detected in groundwater samples from the offsite wells was 432 µg/L collected from MW-46R. This is a decrease from the highest concentration documented at this location (680 µg/L) in both 2011 and 2012.

Just up-gradient of MW-46R, trends are decreasing at MW-41R. The highest TCE concentration (1,170 µg/L) identified at MW-41R was identified in April of 2005 while the current concentration of 56.6 µg/L is fairly consistent with the fourth quarter 2015 result of 48.7 µg/L.

Onsite Wells

In accordance with the RADD, 35 monitoring wells are identified as onsite wells (Table 2). Onsite wells designated by the RADD do not include wells identified as plume boundary wells that are located onsite. Onsite wells include specific wells north of Ingersoll Avenue and some wells south of Ingersoll Avenue which are north of the Whirlpool northern property fence line, but still located on property owned by Whirlpool Corporation. The remaining onsite wells are located along the perimeter of the former Whirlpool manufacturing facility, within the source area, or south of the source area which includes wells immediately adjacent to the Whirlpool manufacturing building. Tabulated VOC concentrations measured in onsite wells during the fourth quarter event are presented in Table 6.

VOCs were detected above the RADD RALs in 30 of the 35 groundwater samples collected from onsite wells. Parameters exceeding RALs include: TCE in all onsite wells (except for ITMW-14, IW-80, MW-34R, MW-83, MW-84, MW-88 and MW-90), bromomethane in six wells, 1,1-dichloroethane (1,1-DCA) in four wells, 1,1-dichloroethene (1,1-DCE) in five wells, cis-1,2-dichloroethene (cis-1,2-DCE) in seven wells, methylene chloride in four wells, 1,1,2,2-tetrachloroethane (1,1,2,2-TCA) in six wells, tetrachloroethene (PCE) in six wells, 1,1,1-trichloroethane (1,1,1-TCA) in one well, 1,1,2-trichloroethane (1,1,2-TCA) in one well, and vinyl chloride (VC) in eight wells.

During the 2016 first quarter event, the maximum onsite TCE concentration measured was 95,500 µg/L at MW-86. MW-86 is located in the linear drainage feature which is the source area onsite. The first quarter 2016 concentration of TCE at MW-86 is over 80 percent lower than the highest concentration of 533,000 µg/L in May of 2014. The TCE concentration has varied since 2014 due to ISCO efforts within this area. These results further document the successful ISCO remediation events performed at the site.

The concentration of the daughter products (cis-1,2-DCE and 1,1-DCE) are also highest in the wells in the source area and immediately surrounding the source area. The highest concentration of VC continues to be detected at MW-38.

Figures 3 and 4 depict trends in TCE concentration at select onsite wells. Figure 3 depicts TCE concentrations at ITMW-17, ITMW-19 and MW-25 over time on a logarithmic scale. The linear trend for TCE concentration is generally stable to decreasing at these three wells. Figure 4 depicts TCE concentrations at the northern onsite wells (MW-33R, MW-34R and MW-35R along Ingersoll Avenue) over time on a logarithmic scale. The concentration results for MW-34R and MW-35R exhibit stable to decreasing linear trends. The January 2016 TCE concentration from

MW-34R (2.6 µg/L) continues to remain below the RAL along with the third and fourth quarter 2015 results of 3.5 and 4.5 µg/L, respectively, since monitoring began in 2001. MW-33R has shown fluctuation in TCE concentrations over time; however, the current TCE result of 724 µg/L is less than the maximum detected concentration of 1,700 µg/L, measured in September of 2007 (MW-33R was abandoned in April 2016 due to the current Ingersoll Avenue road expansion project).

Northeast Corner Wells

As discussed in the Northeast Corner Investigation Report (dated December 8, 2014), wells were installed at the northeast corner of the Whirlpool property and on the Boys and Girls Club property. These wells (MW-87 through MW-91, MW-96 through MW-99 and MW-183 and MW-184) were installed to identify and delineate TCE impacts at or near the northeast corner of the Site. Analytical results from these wells are included in Table 6. As stated in the Response to ADEQ Correspondence dated August 3, 2015, regarding the First Quarter 2015 Progress Report, these wells were sampled for VOCs and MNA parameters during the first quarter 2016 sampling event and will continue to be sampled for these parameters during subsequent quarters subject to any future ADEQ-approved changes.

During the first quarter event, samples were collected from these wells as shown on Figure 2A. Wells MW-97 through MW-99, located on the Boys and Girls Club property, were non-detect for VOCs. MW-88 and MW-90 are located north of the former manufacturing building northeast corner and neither well contained detectable levels of VOCs. MW-89 contained TCE at a concentration of 11.6 µg/L which is comparable with historical concentrations. The TCE concentrations at MW-87 and MW-91 continue to be generally stable since the April 2015 monitoring event. TCE concentrations in MW-96 through MW-99 on the Boys and Girls Club property are below detection limits. Wells MW-183 and MW-184 were installed in late September 2015 and TCE concentrations are non-detect in both wells for this quarter.

3.3.2 Monitored Natural Attenuation Results

In accordance with the Revised RADD, 76 monitoring wells are noted as plume boundary, onsite, or offsite wells which are monitored for natural attenuation parameters. During the first quarter event, 28 additional wells (not listed in the RADD) were monitored for field natural attenuation parameters and VOCs. Tabulated results are presented in Table 6.

This section presents the natural attenuation data collected from the Site during the 2016 first quarter event.

The USEPA documents “Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater” (USEPA, 1998) and “An Approach for Evaluating the Progress of Natural Attenuation in Groundwater” (USEPA, 2011) provides a framework for presenting the lines of evidence that natural attenuation of chlorinated solvents is occurring. The three recognized lines of evidence include:

- Historical groundwater and/or soil chemistry data that clearly demonstrate a trend of decreasing contaminant mass and/or concentration over time at appropriate monitoring

points (USEPA, 1998);

- Hydrogeologic and geochemical data that can be used to establish indirectly the type(s) of natural attenuation processes occurring at the site and the rate at which the processes will reduce contaminant concentrations to the cleanup goal (USEPA, 1998); and
- Data from field or microcosm studies which directly demonstrate the occurrence of a specific natural attenuation process at the site and its capacity to degrade the contaminants of concern (USEPA, 1998).

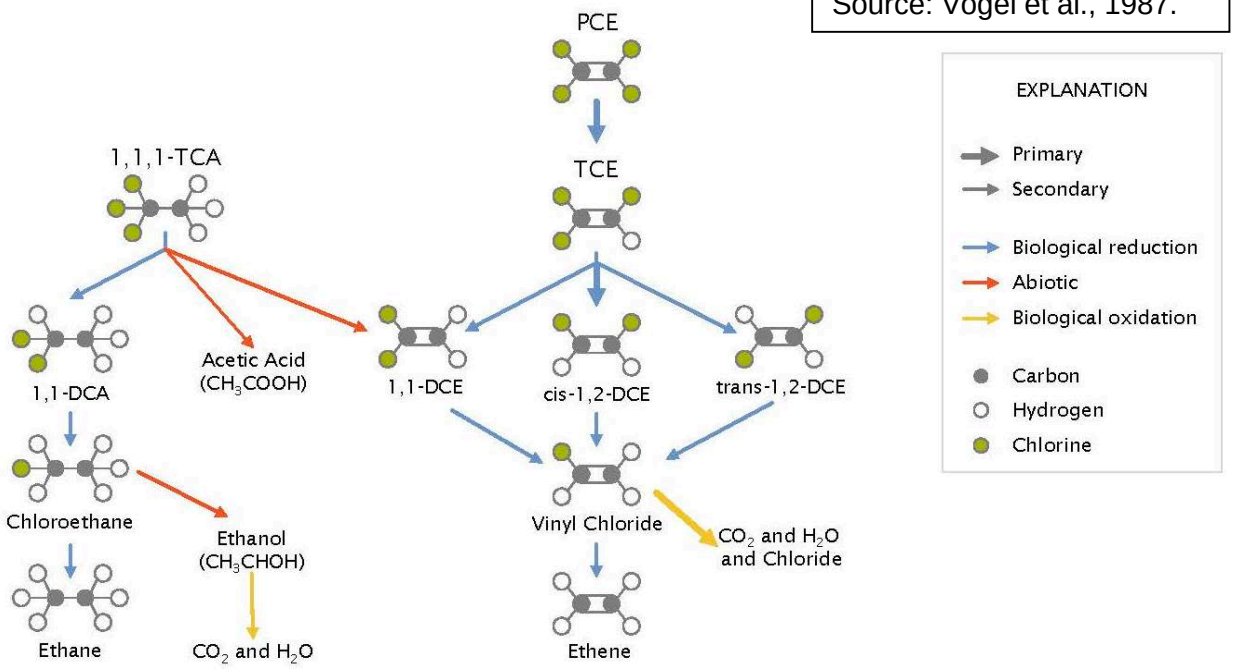
The MNA assessment evaluates predominant electron acceptors, the variability of these electron acceptors, major nutrients, general groundwater quality, key microbial population and enzyme activities and dissolved gasses. The assessment uses this data to determine the types of organisms that will be able to effectively flourish in the aquifer, how the geochemistry and chemistry of the aquifer impacts MNA processes, how the indigenous microbial population is being supported, the availability of microbial populations and the presence of reductive dechlorination occurring in the aquifer.

3.3.2.1 Chemical Lines of Evidence

The occurrence and progress of natural attention in reducing COC concentrations is provided by evaluating the presence and effectiveness of the transformation pathways for chlorinated ethenes. Chlorinated ethenes are degraded by both biological and abiotic (non-biological) mechanisms. The graphic below shows the biological (anaerobic) and abiotic transformation pathways for chlorinated ethenes. This graphic does not include other chemically induced aerobic (e.g. ISCO) and anaerobic (e.g. zero valent iron) pathways that can promote degradation of chlorinated compounds.

Abiotic and Biotic Pathways for Chlorinated Ethenes and Ethane

Source: Vogel et al., 1987.



Tables 4 and 6 present a summary of field parameters and analytical results for VOCs in groundwater, respectively. These data provide lines of evidence that natural attenuation of TCE is continuing to occur via biological mechanisms in both onsite and offsite groundwater. Groundwater sample results continue to show elevated levels of cis-1,2-DCE in Site monitoring wells, as well as the presence of VC in 28 of the wells monitored. In addition, 29 wells showed detections of ethene, indicating that complete reductive dechlorination is occurring in various locations of the northern and southern plumes. Table 6 also includes the laboratory MNA analytical results and the microbial data.

Sampling MNA parameters at locations where TCE is below 5 µg/L does not provide valuable data when evaluating MNA processes. When TCE concentrations are below 5 µg/L the remedial action level (Maximum Contaminant Level (MCL)) has already been achieved and due to the low concentration further significant reduction in contaminants is not expected within a rapid timeframe. Also in areas where VOC concentrations are at very low levels, we're unlikely to observe microbial populations, genes, and other indicator parameters necessary to demonstrate biodegradation of VOCs.

3.3.2.2 Geochemical Lines of Evidence

The occurrence and progress of natural attenuation in reducing COC concentrations is provided by evaluating geochemical parameters along with the results of conventional chemical and microbial analyses. The detection of cis-1,2-DCE in groundwater samples from this Site is evidence that conditions likely are favorable for active reductive dechlorination processes. Key parameters used to assess the progress of reductive dechlorination include: temperature, concentration or presence of electron acceptors (dissolved oxygen, nitrate, iron, manganese and sulfate), presence and amount of nutrients (e.g. concentrations of nitrogen and phosphorus), bioavailable carbon source to sustain microbial population, concentrations of COCs and pH.

Tables 4 and 6 present the groundwater field parameters and MNA analytical and microbial results for the first quarter event. A summary of the key items on these tables are discussed below:

- The groundwater during this quarter was generally considered to be under bulk anaerobic conditions, with 47 of the wells showing dissolved oxygen (DO) concentrations less than 1 mg/L. In addition, 26 wells displayed microaerophilic conditions with DO less than 2.0 mg/L. DO levels were relatively low in both the northern and southern plumes. Elevated DO levels were observed in some areas that had been exposed to ISCO injections, similar to previous sampling rounds. Post ISCO injections in both the northern and southern plume, there was an increase in DO in the wells impacted by the injection. Within less than eight months post ISCO injections, DO levels returned to background concentrations in both plumes, which indicates the potential for MNA after ISCO injections.
- The ORP of the groundwater samples ranged from a low of -263.6.1 millivolts (mV) in IW-73 to a high of 638.5 mV in IW-72 (some purged groundwater exhibited a purple color presumably due to injections within this area). Similar to previous quarters, IW-72

continues to display high ORP levels. In general, the ORP levels were less than 500 mV in most of the Site monitoring wells, which indicate that the groundwater is under manganese reducing to sulfate reducing conditions.

- The pH of the groundwater ranged from a low of 4.94 in MW-32R to a high of 13.19 in MW-180. In general, pH levels are in the range of 5 to 7; however, the pH is affected by ISCO injections. Similar to pH results, the alkalinity also increased in the northern wells impacted by ISCO injection. Source area wells have not shown a significant change in alkalinity.
- The alkalinity of the groundwater is relatively low with many of the groundwater samples showing total or bicarbonate alkalinity concentrations less than 100 mg/L. However, this quarter, 27 wells showed total alkalinity equal to or greater than 100 mg/L, which is consistent with the previous quarter. The relatively low alkalinity concentrations in some parts of the plume indicate that the groundwater does not have significant natural buffering capacity in these areas.
- The temperature of the groundwater ranged from about 10.19° to 21.27° Celsius, with the majority of the temperatures around 14-19^{o} Celsius, which is a range that would support microbial growth in groundwater.
- The major competing electron acceptors nitrate, manganese, iron and sulfate were evaluated in Site groundwater samples (Table 6). Nitrate levels were generally present at less than 1 mg/L in most of the monitoring wells. ITMW-6 showed an elevated level of nitrate at 22.6 mg/L, which is consistent with previous quarterly sampling results. Manganese concentrations ranged from non-detect in several onsite wells to 10.1 mg/L in MW-41R. The majority of the wells showed manganese concentrations less than 1 mg/L. Total iron was generally present in groundwater samples at 10 mg/l or less, with the exception of MW-36R, MW-40R, MW-41R, MW-58R, MW-61R, MW-187, MW-188 and TMW-11. The elevated total iron concentration observed in MW-61R (27.3 mg/L) was due to the in situ chemical reduction injections in the area of this well. These results are consistent with the low levels of ferrous iron measured in groundwater (<4 mg/L). MW-40R, MW-41R, MW-58R and MW-61R showed total iron concentrations greater than 10 mg/L and ferrous iron concentrations at 3.0 mg/L or higher, indicating iron reducing conditions are present in the area around these wells. Although elevated levels of iron were observed in the aforementioned wells, it does not appear to be significantly inhibiting reductive dechlorination, as demonstrated by the presence of cis-1,2-DCE and VC in the groundwater. Sulfate concentrations were generally less than 1,000 mg/L with the exception of ITMW-18, ITMW-19, IW-76, IW-77, IW-80, MW-23, MW-24, MW-25, MW-35R, MW-36R, MW-65, MW-82, MW-83, MW-84, MW-85, and MW-86. MW-35R displayed one of the highest sulfate concentrations in groundwater at 5,700 mg/L and likewise also showed elevated levels of persulfate at 7,000 mg/L. The wells that displayed significantly higher concentrations of sulfate were likely impacted by the ISCO injections.
- The dissolved hydrogen concentrations ranged from 0.93 nanomolar (nM) in MW-31R to 26,000 nM in MW-36R. Several wells displayed dissolved hydrogen greater than 1,000 nM and the majority of these wells, including MW-36R also showed elevated persulfate

concentrations, which likely impacted the dissolved hydrogen concentrations in groundwater. Most of the wells displayed dissolved hydrogen concentrations in a range of 1.2 to 10 nM, which indicates that the majority of the plume is under sulfate reducing to methanogenic conditions.

- Dissolved gasses methane, ethane, and ethene were present in low levels at the site. Ethene levels remained similar to fourth quarter 2015, with slightly elevated ethene levels observed in MW-38 and MW-86. The ethene levels in MW-38 corresponded to elevated levels of DHC and BAV1 vinyl chloride reductase in this well, which is similar to the previous quarters.
- Total Organic Carbon (TOC) levels ranged from less than 1 mg/L to a high of 7.8 mg/L in ITMW-4 for those wells not impacted by in situ chemical reduction (ISCR). Similar to the previous quarters more than 80 percent of the groundwater samples displayed TOC levels less than 2 mg/L. Methane, ethane and ethene were detected at low concentrations or were non-detect in groundwater samples throughout the Site (Table 6). These results are likely due to low levels of TOC present in the groundwater, which may be inhibiting bacterial growth.
- Major nutrients, ammonia and phosphate, were evaluated in groundwater and the results in Table 6 indicate that the groundwater contains non-detectable levels of ammonia (< 0.10 mg/L), with the exception of 20 wells which displayed ammonia levels greater than 0.11 mg/L. The highest ammonia level was observed in TMW-11 with a concentration of 1.9 mg/L. This well was impacted by the ISCR injection and therefore, it is not surprising to see elevated ammonia levels in this well. Phosphate was detected at concentrations ranging from non-detect (< 0.03 mg/L) to a high of 3.0 mg/L in MW-81. Most wells displayed phosphate levels between 0.05 and 1 mg/L. Average nutrient levels, including ammonia, nitrate, nitrite, and total phosphate have remained relatively consistent during the quarterly sampling events, unless the wells were directly impacted by ISCO or ISCR.

3.3.2.3 Microbial Lines of Evidence

Table 6 provides the microbial results for the groundwater samples which were evaluated using standard groundwater analysis protocols. This table includes the results for the genus DHC, the functional genes, tceA reductase (tceA), BAV1 VC reductase (BVC) and VC reductase (VCR). The first quarter 2016 microbial results are presented in Appendix C. Similar to the previous quarterly sampling results, the DHC microbial population was detected at elevated levels in MW-38 (8,240 cells/mL); a location that is relatively close to the source area. Likewise, the BVC gene was also detected at elevated levels (1,390 cells/mL) in MW-38, which indicates the potential for complete reductive dechlorination in this area. In addition to MW-38, IW-74 and MW-90 showed elevated levels of DHC (2,200 and 1,130 cells/mL, respectively). The following eleven wells displayed DHC concentrations greater than 30 cells/mL: IW-73, IW-74, MW-38, MW-40R, MW-41R, MW-46R, MW-61R, MW-67R, MW-88, MW-90, and TMW-11.

In general, the average DHC population in the northern and southern plumes is lower in the ISCO impacted wells, which is to be expected given the oxidative conditions which inhibit the

growth and sustainability of DHC. However, various field studies have shown that DHC populations can return to native levels within a relatively short time period (Sutton et al., 2011).

The chemical, geochemical and microbial data from the first quarter 2016 event are similar to the quarterly monitoring events in 2014 and 2015. The VOC results demonstrate that reductive dechlorination is occurring in various locations of the plume.

The higher levels of TOC and ethene have been consistently observed in MW-38, which indicate that there is bioavailable organic carbon in this area that is supporting the indigenous microbial population of DHC and contributing to complete reductive dechlorination of cVOCs in groundwater. The lower levels of reductive dechlorination observed in this plume are likely due to the low levels of TOC observed in various locations throughout the plume and the elevated DO levels.

3.4 Data Quality Assessment

All field and analytical data were reviewed by Ramboll Environ. Validation findings are summarized below. Detailed validation reports are included in Appendix C.

3.4.1 Field Data

Field data were collected and validated according to the RADD, Work Plan and associated SOPs and USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Review (August, 2014). The field data and documentation were evaluated against the following criteria, as appropriate:

Samples were collected at the specified locations identified in the RADD plus five wells sampled on the northeast corner of the Whirlpool property (MW-87 through MW-91), six wells sampled on the Boys and Girls Club property (MW-96 through MW-99, MW-183 and MW-184), nine wells sampled for in-situ chemical oxidation (ISCO) monitoring (MW-23, MW-24, MW-81, MW-82, MW-92 through MW-95 and IW-101, IW-115 and MW-172), two temporary wells sampled for in-situ chemical reduction (TMW-10 and TMW-11) and twenty-five additional wells sampled to support the evaluation of the source area, plume boundary and shallow groundwater.

- Field instrumentation calibration and quality assurance/quality control (QA/QC) checks on equipment were conducted on a daily basis, prior to field work; and
- Sample documentation protocol and chain-of-custody protocols were followed per Ramboll Environ Field Procedures.

3.4.2 Laboratory Analytical Data

All VOC (SW846 5030B/8260B) analytical results for the 76 RADD plume boundary, onsite and offsite wells, in addition to wells noted in Section 3.4.1, received data validation by a Ramboll Environ Project Chemist. During the data validation process, data validation qualifiers were assigned to the results per USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Review (August, 2014), as necessary, to indicate potential

limitation on use of the data. In addition, data qualifier codes were added to the results to indicate the reason(s) for qualification and the associated bias direction, if discernible.

The following sections provide a summary of the data validation results.

General Usability Assessment

The laboratory data packages for VOC analysis received from PACE Analytical Services were paginated, complete and overall of good quality. The data packages submitted contained modified level II data packages for data validation.

The data quality for VOCs was generally acceptable. A number of analytes were qualified as non-detect due to method, equipment and trip blank contamination. This contamination generally originates from carry over on the instrument, from common laboratory contaminants used in the laboratory and from cross contamination during shipping and storage of samples.

The overall quality of analytical data is inferred from the quantitative and qualitative data quality indicators of reporting limits, accuracy, precision, completeness, representativeness and comparability. A general overall assessment of each of the data quality assurance objectives is provided below:

- **Reporting Limits.** The minimum reporting limits required were attained on undiluted samples with the exception of 1,3-dichloropropene and 1,1,2,2-tetrachloroethene. The laboratory instrument used for USEPA Method 8260B cannot be calibrated to detect 1,3-dichloropropene at a RAL of 0.41 µg/L or 1,1,2,2-tetrachloroethene at a RAL of 0.066 µg/L as prescribed by the RADD. The method detection limit (MDL) for 1,3-dichloropropene at 0.14 µg/L was below the RAL whereas the MDL for 1,1,2,2-tetrachloroethene was 0.15 µg/L which is above the RAL listed in the RADD. ADEQ was informed of the limitations of the laboratory instrument in March 2014.

  Elevated target analyte concentrations necessitated dilutions for several samples. In such instances, the reviewer selected the result for each target analyte, corresponding to the analysis run with the least dilution. All other analytes were reported from the undiluted analysis if applicable. Results below the reporting limit (RL) were flagged by the laboratory if above the MDL. To reflect the uncertainty associated with values reported between the MDL and RL, these results were qualified as estimated (“J”).

- **Precision.** The MS/MSD relative percent difference (RPD) results for VOCs and the field duplicate RPD VOC results satisfied applicable precision criteria for the majority of analytes with the following exceptions; three out of the five field samples which were selected for MS/MSD analysis MW-55R-201601, ITMW-20201601 and MW-90-201601 with MS/MSD RPDs reported outside of laboratory criteria. For sample MW-55R-201601 1,1,2,2-Tetrachloroethane and styrene had reported RPDs of 14% and 18% which exceeded the laboratory control criteria of 13% and 10% respectively. For sample ITMW-20-201601 several analytes (1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, dibromochloromethane, tetrachloroethene and trichloroethene) had MS/MSD RPDs reported slightly above the laboratory control criteria. In addition MW-90-201601 had one

analyte (1,1,2,2-tetrachloroethane) with an MS/MSD RPD reported above laboratory control criteria. While the slightly high MS/MSD RPDs may indicate possible poor precision, all MS/MSD recoveries for these analytes were within laboratory control criteria. Therefore, this non-conformance does not affect the usability of the data and qualification of data was not required. All ten field duplicate results had calculated RPDs less than 30% for all aqueous samples, indicating adequate and reproducible field and laboratory collection and analytical techniques with the exception of sample ITMW-11 and its associated duplicate DUP-03. Duplicate RPDs for nine analytes (acetone, 1,1-dichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dicholorethene, ethyl benzene, methylene chloride, toluene, trichloroethene and vinyl chloride) were reported above 30% indicating poor replicate precision. It was determined that the field duplicate which was submitted for analysis was not collected immediately following the collection of the parent sample. An initial duplicate was collected after the parent sample, however it was broken after the field sampler left the well. The field sampler immediately returned to the well and collected a second duplicate. Therefore, the noted precision non-conformance was likely due to field sampling inconsistency. All reported results were "J" qualified as estimated values due to poor replicate precision. The laboratory dilution calculations were reviewed and were determined to be accurate. The more conservative (higher) concentrations were reported in tabular form and are used for the purpose of site evaluation.

- **Accuracy.** Accuracy is a measure of bias in a measurement system. The closer the value of the measurement agrees with the true value, the more accurate the measurement. This was expressed as the percent recovery of LCSs, MS/MSDs and surrogates. Surrogate spike recoveries, MS/MSD results and LCS results for constituents of concern satisfied the applicable evaluation criteria for accuracy, which indicates that overall accuracy with respect to the analytical system and to the site specific matrix can be considered acceptable. Several recoveries were outside of acceptable criteria, and qualification of data was required for eleven sample results. In addition, two MS/MSD recoveries for styrene were below 10% indicating that the instrument was not able to sufficiently determine the presence of the analyte in the sample matrix. Therefore, the non-detect results of styrene in samples ITMW-6-201601 and ITMW-20-201601 were rejected and qualified as "R" indicating that the data cannot be used for any purpose.
- **Completeness.** Completeness is a measure of the number of valid measurements obtained in relation to the total number of measurements planned. Completeness is expressed as the percentage of valid or usable measurements to planned measurements. Two data points out of 5032 data points were rejected during the validation process. As such, the completeness for the 2016 first quarter event is 99.9%.
- **Representativeness.** Representativeness is a qualitative parameter which expresses the degree to which sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition. The agreement between the field duplicate results was used to assess representativeness. As discussed above one sample duplicate result had RPDs which indicated possible poor precision due to sample collection inconsistencies, however for

all other sample and duplicate pairs, the general agreement between the field duplicate results is considered to indicate that the samples collected are adequately representative of the medium sampled.

- **Comparability.** In essence, comparability was maintained by consistency in sampling conditions, selection of sampling procedures, sample preservation methods, analytical methods and data reporting units.

4 Plume Stability

This section includes discussion of trends for individual wells, trends for groups of wells, plume boundaries and concentration versus time plots. The discussion and assessment of the plume is based upon a macro-analysis of the entire plume versus a single well analysis to categorize the plume stability. Individual wells will exhibit variability and fluctuations that will influence plume boundaries in any given quarter. The macro-analysis of the entire data set minimizes the over weighting of any particular well or data set from a well. Monitoring wells installed after the 2013 RADD was issued by ADEQ are only included in this analysis if they have been sampled a sufficient number of times to establish temporal trends (statistical trend analysis typically requires data from at least four sampling events).

Table 7 presents a historical summary of TCE and degradation products, cis-1,2-DCE and VC, concentrations in groundwater samples. These values are used for the analysis of trends described in the remainder of this section.

4.1 Lines of Evidence

Several analytical tools or “lines of evidence” were used to evaluate plume stability conditions including:

- **Statistical Methods**. Mann-Kendall nonparametric test (Gilbert, 1987; USEPA, 2000) to calculate the temporal trend in individual well analyte concentrations over time.
- **Isoconcentration Maps.** Qualitative method to evaluate temporal trends by comparing representations of plume concentration and extent for certain periods over the duration of monitoring.
- **Time vs. Concentration Plots.** Qualitative method to evaluate temporal trends in constituent concentration for individual wells and for representative concentration of overall plume (mean). The plots also include exponential regression lines to aid the analysis of temporal trends.

4.1.1 Statistical Analysis of Temporal Trends

The Mann-Kendall test (Gilbert, 1987) is a non-parametric test for linear trend, based on the idea that a lack of trend would be represented by a time series plot fluctuating randomly about a constant mean level, with no visually apparent upward or downward pattern. Because Mann-Kendall is a non-parametric test, it is not dependent upon the magnitude of data, the distribution of the data (does not have to have a normal distribution), missing data from a particular sampling event, or irregularly spaced monitoring events. Mann-Kendall assesses whether a time-ordered data set exhibits an increasing or decreasing trend, at a predetermined level of significance.

The Mann-Kendall statistic is computed by looking at all possible pairs of measurements in the data set and scoring each pair as follows:

- An earlier value lower in magnitude than a later one is assigned a value of 1;
- An earlier value higher in magnitude than a later sample is assigned a value of –1; and
- Two identical values are assigned 0.

The scores from all of the pairs are added together to get the Mann-Kendall statistic (S), a positive value of S indicates that a majority of the differences between earlier and later measurements are positive, which suggests an increasing trend over time. Conversely, a negative value for S implies that a majority of the differences between earlier and later values are negative, indicating a decreasing trend. A value near zero indicates a roughly equal number of positive and negative results. This indicates the values have randomly fluctuated around a constant mean with no apparent trend. If the Mann-Kendall test indicates that there is not a statistically significant trend a second test, coefficient of variation (COV), is performed to determine if the trend is stable (COV is less than 1, little variation above and below the mean value) or if no trend exists (COV is greater than 1, high variation above and below the mean value).

The applicable outcomes of the temporal trend analysis are as follows:

- **Increasing**. Statistically significant increasing trend for concentrations (>90% confidence);
- **Stable.** No statistically significant trend for concentrations along with low variability for results (coefficient of variance <1);
- **No Trend**. No statistically significant trend for concentrations along with high variability for results (coefficient of variance >1);
- **Decreasing**. Statistically significant decreasing trend for concentrations (>90% confidence);
- **<PQL (Practical Quantitation Limit).** All sample results have a “J” qualifier (estimated result greater than the method detection limit but less than the reporting limit) or a mixture of non-detects and results with “J” qualifiers; and
- **Not Detected (ND).** Constituent has not been detected at the well during the time period analyzed.

The trend analysis performed for groundwater concentrations from 2009 (when installation of the last of the current wells used for monitoring in accordance with the RADD was complete) through first quarter 2016 are summarized in Tables 8 and 9. MW-42B and MW-43 were damaged in 2009 and permanently abandoned in 2014; therefore no statistical evaluation was performed for these wells. The following is the list of wells in each category (this list is only presented for evaluation of plume stability):

- **Northern Plume Wells (42 wells)**. MW-23, MW-24, MW-27, MW-28, MW-31/31R, MW-32/32R, MW-33/33R, MW-34/34R, MW-35R, MW-36/36R, MW-39/39R, MW-40/40R, MW-41/41R, MW-46R, MW-50, MW-55/55R, MW-56/56R, MW-57/57R, MW-58/58R,

MW-60, MW-61, MW-62/62R, MW-63/63R, MW-65, MW-66, MW-67/67R, MW-68, RW-69, MW-70, MW-71, IW-72, IW-73, IW-74, IW-75, IW-76, IW-77, IW-78, IW-79, IW-80, MW-81, MW-82, MW-83 and MW-84.

- **Northeast Corner Wells (9 wells)**. MW-87, MW-88, MW-89, MW-90, MW-91, MW-96, MW-97, MW-98 and MW-99.
- **Southern Plume Wells (35 wells)**. ITMW-1, ITMW-2, ITMW-3, ITMW-4, ITMW-5, ITMW-6, ITMW-7, ITMW-9, ITMW-10, ITMW-11, ITMW-12, ITMW-13, ITMW-14, ITMW-15, ITMW-16, ITMW-17, ITMW-18, ITMW-19, ITMW-20, ITMW-21, MW-22, MW-23, MW-24, MW-25, MW-26, MW-29, MW-30, MW-37, MW 38, MW-85, MW-86, MW-92, MW-93, MW-94, MW-95 and MW-172.
- **Source Area Wells (16 wells)**. ITMW-11, ITMW-12, ITMW-15, ITMW-17, ITMW-18, ITMW-19, MW-25, MW-37, MW-38, MW-85, MW-86, MW-92, MW-93, MW-94, MW-95 and MW-172.

Contaminant concentration trends as established during the first quarter event are summarized below:

- **Northern Plume Wells (43 wells):** The Mann-Kendall trend analysis utilizes data from all wells associated with the January 2016 groundwater monitoring event for the northern plume (Table 8). As described in more detail below, our determination that a majority of the wells exhibit little or no TCE or a decreasing or stable TCE concentration trend is based on the fact that 91% (39 of 43 wells) of these wells exhibit either little or no TCE or a decreasing or stable TCE concentration trend.

  The trend analysis for the 43 wells associated with monitoring the northern plume indicates the following:

  - Nine wells exhibit a stable trend for TCE concentrations.
  - Eighteen wells exhibit a decreasing trend for TCE concentrations.
  - Eight wells exhibit no trend regarding TCE concentrations according to the statistical test. TCE concentrations in all eight of these wells consisting of MW-27, MW-31/31R, MW-36/36R, MW-39/39R, MW-67, MW-68, IW-72, and IW-75 have been non-detect or have been detected but at less than 1.4 µg/L since October 2012.
  - Four wells exhibit TCE concentrations below detection limits or below reporting limits; and
  - Four wells exhibit an increasing trend for TCE concentrations.

  TCE concentrations in 12 of the 43 northern plume wells (28%) have been non-detect or less than 1.4 µg/L since October 2012 and 27 of the 43 wells (63%) have exhibited decreasing or stable trends; therefore, 39 of the 43 northern plume wells (91%) exhibit either little or no TCE or a decreasing or stable TCE concentration trend. We believe that this supports our plume stability conclusions.

In addition, Table 10 indicates that the average TCE concentration for wells in the northern plume decreased from 384 µg/L in April 2009 to 119 µg/L in January 2016.

As noted, TCE concentration trends are increasing in four of 43 (9%) of the wells (MW-56R, MW-57R, MW-61R, and MW-66). Further, of the four wells located in the northern plume with increasing TCE concentration trends:

- Three wells (MW-56R, MW-61R, and MW-66) had concentrations during the 2016 first quarter that were within historical ranges of detected values. The TCE concentration at MW-56R increased to 408 ug/L during the first quarter from 278 ug/L in October 2015, but the first quarter concentration is below the maximum concentration of 618 ug/L which occurred in March 2014. The TCE concentration of 3.9 ug/L at MW-61R is the lowest since the estimated concentration in October 2012 of 2.9 ug/L. The estimated TCE concentration of 0.53 ug/L in the first quarter at MW-66 is a historical low concentration.
- The January 2016 TCE concentration of 422 ug/L at MW-57R is a historical high concentration but only marginally higher than the previous two concentrations of 409 ug/L and 400 ug/L in July 2015 and October 2015, respectively. TCE concentrations at this well appear to be stabilizing in the time period of July 2015 through January 2016.

- **Northeast Corner Wells (nine wells):** The five wells (MW-87 through MW-91) located on Whirlpool property in the area of the northeast corner plume have been sampled seven times between June 2014 and January 2016 and four wells (MW-96 through MW-99) located on Boys & Girls Club property further to the northeast have been sampled six times between October 2014 and January 2016. This allows for statistical analysis of temporal trends over this approximate one year and three to six month period but does not allow for the interpretation of long-term temporal trends in these wells. The overall TCE concentration trends are increasing in MW-87 and MW-91 with concentrations ranging from 564 µg/L to 781 µg/L and 234 µg/L to 413 µg/L, respectively. During the last year, the quarterly TCE concentrations in MW-87 have been 758 µg/L, 758 µg/L, 708 µg/L and 781 µg/L (duplicate sample result of 757 µg/L); therefore, these results suggest the TCE concentrations in MW-87 are beginning to stabilize. During the last year, the quarterly TCE concentrations in MW-91 have been 438 µg/L, 411 µg/L, 442 µg/L (duplicate sample result of 405 µg/L) and 422 µg/L (duplicate sample result of 413 µg/L); therefore, these results suggest the TCE concentration in MW-91 are beginning to stabilize.

  TCE concentrations in MW-96 through MW-99 on the Boys & Girls Club property continue to be below detection limits (i.e. less than 0.17 µg/L) except for an estimated TCE concentration of 0.21 µg/L at MW-99.

- **Southern Plume Wells (36 wells):** As described in more detail below, our determination that a majority of the wells exhibit little or no TCE or a decreasing or stable TCE concentration trend is based on the fact that 32 of 36 (89%) of the southern wells exhibit either little or no TCE or a decreasing or stable TCE concentration trend. The trend

analysis for the 36 wells associated with monitoring the southern plume indicates the following:

- Eight wells exhibit a stable trend for TCE concentrations.
- Seventeen wells exhibit a decreasing trend for TCE concentrations.
- Four wells exhibit no trend regarding TCE concentrations (TCE concentrations at two of these wells, consisting of ITMW-20 and MW-26, have been non-detect or less than 5 µg/L since October 2011). TCE concentrations at MW-85 and MW-86 (the other two wells with no trend) exhibit no trend according to the statistical test; however, TCE concentrations decreased comparing fourth quarter 2015 and first quarter 2016. The TCE concentration at MW-85 decreased from 12,000 µg/L in October 2015 to 6,980 µg/L in January 2016 and decreased in MW-86 from 131,100 µg/L to 95,500 µg/L during the same period. These fluctuations in concentrations preclude development of a mathematical trend using Mann-Kendall trend analysis.
- Three wells exhibit TCE concentrations below PQLs.
- Four wells (ITMW-6 and ITMW-10 located south of the former manufacturing building, MW-38 located immediately north of Area 1, and MW-93 located immediately south of Area 1 inside the former manufacturing building) exhibit an increasing trend for TCE concentrations.

As noted, TCE concentration trends are statistically increasing in four of the 36 (11%) southern plume wells (ITMW-6, ITMW-10, MW-38, and MW-93) and of these wells the following observations can be made:

- MW-38 and MW-93 are source area wells and are discussed further below.
- ITMW-6 TCE concentrations have been primarily non-detect at less than 5 µg/L. When detections have been reported, they have ranged from 2.7 to 4.7 µg/L over the time period of October 2013 through January 2016. The current TCE concentration for the first quarter of 2016 is 4.2 µg/L. This variability is typical, if not endemic, to isolated or individual wells within a VOC (TCE) plume. These are not increases. They merely reflect that the plume is not homogeneous and concentrations may vary slightly in water samples drawn over time or in locations that may be only a handful of feet apart.
- ITMW-10 will continue to be monitored regarding the increasing trend of TCE concentrations near the south central boundary of the building; concentrations for cis-1,2-DCE and vinyl chloride at ITMW-10 showed decreasing trends.

- **Source Area Wells (16 wells):** The source area wells showed predominantly decreasing or stable concentration trends for TCE (nine wells decreasing, three wells stable and two wells with no trend) and for cis-1, 2-DCE (eight wells decreasing and seven wells stable). Only two of the source area wells, MW-38 and MW-93, continued to demonstrate an increasing concentration trend for TCE and cis-1,2-DCE, however TCE concentrations have been continuing to decrease at MW-38 since October 2014 and the current TCE concentration is 47% less than the October 2014 concentration. During the

last year, the quarterly TCE concentrations in MW-93 have been 21,500 µg/L, 20,800 µg/L, 21,100 µg/L and 21,200 µg/L; therefore, these results suggest the TCE concentrations in MW-93 are beginning to stabilize.

4.1.2 Isoconcentration Maps

Figures 2A and 2B show isoconcentration lines at the northern, northeastern and southern plumes for the 2016 First Quarter groundwater monitoring event. Figure 2A of this report shows TCE concentrations exceeding 5 µg/L on and near the northeast corner of the facility. The presence of TCE in this area does not necessarily represent an expansion of the plume beyond the bounds of its historical maximum extent.

The 2014 second quarter groundwater monitoring event was the first time that the TCE concentration at MW-61 significantly exceeded 5 µg/L, requiring the isoconcentration line to be extended to include MW-61. This trend continued during the 2015 fourth quarter event, with a TCE concentration of 13.3 µg/L reported at MW-61R. An ISCR pilot test commenced at MW-61R in October 2015 and the first quarter 2016 TCE concentration in MW-61R is 3.9 µg/L; therefore, the isoconcentration no longer extends past this well.

MW-193 was installed northeast (down-gradient) of MW-61R in September 2015 and TCE was not detected during the fourth quarter 2015 or first quarter 2016 sampling events.

4.1.3 Concentration vs. Time Plots

The average (arithmetic mean) of the detected TCE, cis-1,2-DCE and VC concentrations were calculated for each of the 19 comprehensive groundwater monitoring events conducted at the Site beginning in 2009 and are summarized in Table 10. Figures 5 through 9 show the average concentrations versus time for the combined northern and southern plume wells, the northern plume wells, the southern plume wells, the source area wells and the northeast corner plume wells, respectively. Decreases in average concentrations for TCE, cis-1,2-DCE and VC are noted for the combined northern and southern plume wells, southern plume wells and source area wells. The average concentrations of TCE, cis-1,2-DCE and VC in the northern plume wells continue to decrease, but at a moderate rate compared to the remainder of the wells. The average TCE concentration trend in the northeast corner wells has continued to increase gradually over the approximate one year and six month time period since the wells were installed; however the cis- 1,2 – DCE concentration shows preliminary signs of a decreasing trend as is evident from Figure 9. The rate of decrease in average TCE concentrations has declined in combined northern and southern plume wells, southern plume wells, and source area wells. Average concentrations for all locations presented on Table 10 (combined northern and southern plume wells, northern plume wells, southern plume wells, source area wells, and northeast corner wells) decreased compared to the fourth quarter 2015 sampling event (1,818 µg/L versus 1,252 µg/L).

TCE and cis-1,2-DCE concentration versus time charts are also provided for pairs of wells located in the southern plume, source area and two located in the northern plume (Figures 10 and 11). As shown on Figure 10, although TCE concentrations continue to increase in ITMW-10

(primarily during the previous eight most recent sampling events) concentrations of cis-1,2-DCE in ITMW-10 and in nearby ITMW-9 have been decreasing. The concentration of TCE at ITMW-9 shows a stable to decreasing trend. Figure 11 shows concentration trends for ITMW-19 and MW-25 located in the source area; concentrations are generally decreasing with decreases of one to two orders of magnitude following the third ISCO injection event in the source area. Figure 12 shows TCE concentrations at MW-61/61R increasing above historical maximums but the October 2015 and January 2016 results are back to being comparable to historical low concentrations.

4.2 Summary of Plume Stability

The overall groundwater conditions at the Site exhibit stable characteristics based upon statistical analysis of temporal concentration trends, decreasing average TCE concentrations in the southern plume, stable to decreasing average TCE concentrations in the northern plume and an aerial extent for the north plume predominantly within the bounds of the historical maximum plume extent. Statistical temporal trend increases in TCE concentrations observed in MW-61R and MW-66 and are within historical ranges and continue to be reported at levels below the RAL (more recently in MW-61R). The boundaries of the south plume have been modified based upon the findings from the Property Boundary Investigation September 2014, data obtained from MW-182 (installed in late June 2015) and the data from the south sentinel wells (installed in late September 2015).

The site-wide groundwater conditions can be categorized as three separate plumes with distinct characteristics (i.e. the southern plume, the northern plume and northeastern plume).

The southern plume is characterized by:

- A relatively flat south, southeast potentiometric gradient with a southwestern gradient in the southern section of the plume;
- Source area (Area 1) TCE concentrations greater than 10,000 µg/L;
- An aerial extent of approximately 1,116,000 square feet (ft^2) (predominately located under the footprint of the Whirlpool building); and
- A decreasing trend in average TCE concentrations.

The northern plume is characterized by:

- A north-northeast potentiometric gradient that is flat in the south portion of the north plume but steepens to north-northeast;
- TCE concentrations generally between 100 and 1,000 µg/L;
- An aerial extent of approximately 463,000 ft^2 located north of the Whirlpool building and extending to the residential area to the north and northeast; and
- A decreasing trend in average TCE concentrations.

The northeast plume is characterized by:

- An east, northeast potentiometric gradient.
- TCE concentrations generally between 5 and 800 µg/L.
- An aerial extent of approximately 240,000 ft^2 located northeast of the Whirlpool building and extending to property owned by the Boys and Girls Club, but offsite groundwater TCE concentrations are only slightly elevated above MCLs.

5 ISCO Remedial Effectiveness

This section includes discussion of January 2016 TCE concentrations in groundwater as they relate to the effectiveness of the last ISCO injection event completed in Area 1, Area 2 and the supplemental neck area in September and October 2015. This event also complements the three 2014 ISCO injection events completed in Area 1, the supplemental neck area, and Area 2 and Area 3. Further discussion of all injection events are found in the 2015 Two Year Technical Review Report (February 2016). In addition, further specific discussion of the 2015 injection event is discussed in the Fourth Quarter 2015 Progress Report dated January 2016 and further specific discussion of the three 2014 ISCO injection events are found in the quarterly progress reports completed in 2014 as well as the 2014 Remedial Action Effectiveness Report dated January 2015. The percent reduction in TCE concentrations was calculated for individual wells and for groupings of wells in areas where ISCO injections occurred. If a well had not been sampled in January 2016 then the most recent result available was used to calculate the sum of TCE concentrations for each area.

Table 11 presents a comparison of TCE concentrations in groundwater prior to the October 2014 ISCO event (September 2014 and October 2014) and the associated post injection monitoring results in Area 1. The most recent post injection monitoring results from January 2016 indicate overall TCE concentration decreases in ten monitoring wells ranging from 15% (MW-92) to 99% (ITMW-18). Concentration increases relative to baseline conditions (September and October 2014 concentrations) included the following; 2% at ITMW-11, 6% at MW-172, 11% at MW-95, 16% at MW-93, and 20% at MW-85. The sum of TCE concentrations at the wells monitored in Area 1 decreased from a baseline of 944,213 µg/L in September and October 2014 to approximately 377,557 µg/L in January 2016 (~60% decrease).

MW-25, MW-85, and MW-86 are located near the former linear drainage feature where the highest concentrations of TCE in groundwater have historically been measured. Table 12 presents historic data from May 2014 (prior to the second injection event) for these wells through January 2016. While TCE concentrations increased at MW-25 and MW-85 since May 2014, the sum of TCE concentrations in these three wells has decreased from approximately 553,470 µg/L in May 2014 to approximately 145,880 µg/L in January 2016 (~74% decrease). Baseline TCE concentrations at MW-25 and MW-85 were much lower, less than 1% to less than 4%, of the baseline concentration observed at MW-86 therefore it is likely that the ISCO treatment in the area has liberated TCE bound to the surrounding soil into the aqueous phase. As mentioned in the April 8, 2016 Response to ADEQ Correspondence on the Fourth Quarter 2015 Progress Report, fluctuations in TCE concentration in the groundwater can be viewed as a positive effect due to contaminants being much more treatable in the aqueous phase. As discussed in the Response to ADEQ Comments Dated March 15, 2016 on the Two Year Technical Review Report (April 15, 2015), it is premature to assess rebound in any of the source area wells because localized groundwater conditions have not yet stabilized (sodium persulfate concentrations, contaminant concentrations and certain field parameters have not stabilized to within a range of variability of 10% or less over three consecutive monitoring events) in source area wells MW-85, MW-86, ITMW-11 and MW-25. Stabilization is a key

component of the “Methods for Assessment of Constituent Concentration Rebound" (June 29, 2015).

Table 13 summarizes the TCE concentrations from wells in the supplemental neck area. The sum of TCE concentrations in the supplemental neck area decreased from approximately 1,296 µg/L prior to the second injection event in May 2014 to 94 µg/L in January 2016 (~93% decrease). This represents a continued decrease relative to the 60 day post injection monitoring results in December 2015 when the sum of TCE concentrations was 225 µg/L. Similarly Table 14 summarizes the TCE concentrations from wells in Area 2 and Area 3. The sum of TCE concentrations in Area 2 and Area 3 decreased from approximately 3,865 µg/L prior to the second injection event in May 2014 to 533 µg/L in January 2016 (~86% reduction). This represents a further decrease in TCE concentrations in Area 2 and Area 3 since December 2015 when the sum was 669 µg/L (~83% reduction). As of January 2016, several supplemental neck area and Area 2 and Area 3 wells saw greater than 90% decrease and no increasing TCE concentrations were measured.

The effectiveness of ISCO injection events as compared to January 2016 monitoring results is summarized as follows:

- The sum of TCE concentrations in Area 1 wells (IW-127, IW-141, IW-147, IW-152, IW-153, IW-157, MW-25, MW-38, MW-85, MW-86, MW-92, MW-93, MW-94, MW-95, MW-172, ITMW-11, ITMW-12, ITMW-15, ITMW-17, ITMW-18 and ITMW-19) decreased from an approximate baseline (September and October 2014) of 944,213 µg/L to approximately 377,557 µg/L in January 2016, roughly one year and two months following the last injection event in this area (~60% decrease). Notable decreases in TCE concentrations (greater than 90%) were observed at MW-94, ITMW-18, and ITMW-19.
- The sum of TCE concentrations in wells in the supplemental neck area (IW-101, MW-23, MW-24, MW-83 and MW-84) decreased from approximately 1,296 µg/L to approximately 94 µg/L roughly three months following the last injection event in this area for an approximate 93% decrease. No increasing TCE concentrations relative to baseline concentrations were measured.
- The sum of TCE concentrations in wells in Area 2 and Area 3 (MW-34, MW-35R, MW-36, MW-65, MW-81, MW-82, IW-77, IW-78, IW-79, IW-80 and IW-115) decreased from approximately 3,865 µg/L to approximately 533 µg/L roughly three months following the last injection event in this area for an approximate 86% decrease. No increasing TCE concentrations relative to baseline concentrations were measured.
- Overall TCE concentrations continue to decrease in the supplemental neck area and Areas 2 and 3 while remaining generally stable in Area 1 relative to the preceding sampling events.

6 ISCR Remedial Effectiveness

This section includes discussion of 2016 first quarter results for the ISCR Pilot Study being conducted in the northeast extent of the off-site TCE impacts near monitoring well MW-61R. A total of 4,844 gallons of ISCR reagents including 7,500 pounds of ProvectIR-40™ [40% by weight 20-30 micron zero valent iron (ZVI)], 660 pounds MgO and 13 L of Dehalococcoides (DHC) (SDC-9 consortium) inoculum were injected across three permeable reactive barrier (PRB) treatment zones in 44 temporary direct push injection points from September 29 through October 2, 2015 (Figure 13). Post injection monitoring for field water quality parameters (temperature, conductivity, DO, pH, ORP, ferrous iron), laboratory geochemical and biochemical indicators (total iron, manganese, sulfate, alkalinity, ammonia, phosphate, TOC and volatile fatty acid (VFA): acetate, propionate and butyrate), hydrogen, and VOCs using EPA Method 5030B/8260 was conducted on October 8, 2015 (six days following the end of the injection event) and at subsequent 30 day intervals (see Table 15).

Observations regarding the field water quality data collected approximately 90 days post ISCR injection (concurrent with the first quarter 2016 monitoring event) are as follows:

- At MW-61R the 90 day results indicate sustained negative ORP (from -149 in December 2015 to -117 mV in January 2016), very low DO (0.21 mg/L) and elevated specific conductance (1,207 µS/cm). The groundwater exhibited an organic odor and pale yellow color.
- At TMW-11 the ORP level also remained negative (from -150 in December 2015 to -128 mV in January 2016), DO is still near zero (0.16 mg/L) and the specific conductance is elevated (3,793 µS/cm). The groundwater exhibited a strong organic odor.
- At TMW-10 little change in the field data was observed.

Table 16 presents the laboratory analytical results for VOCs and various natural attenuation parameters. The results in Table 16 indicate that the ISCR injection promoted a significant increase in total iron, manganese, sulfate, alkalinity, ammonia, phosphate, TOC and VFA: acetate, propionate and butyrate in comparison to the baseline data for MW-61R and TMW-11. The increases in total iron, ferric iron and ferrous iron were due to the ZVI material associated with the ProvectIR-40™ product. Likewise, the ISCR injection also resulted in a significant increase in TOC, which was then utilized by the indigenous and bioaugmented microbial populations to produce VFA. The VFAs increased by more than two to three orders of magnitude in MW-61R, which also promoted the production of hydrogen, which is used as the electron donor for reductive dechlorination of VOCs. At the 90 day sample point, there were still elevated levels of VFAs propionate and acetate in TMW-11, which will continue to support reductive dechlorination in this area.

The 90 day results confirm the ISCR process continues at MW-61R with elevated total iron, pH, methane, ethane and ethene, and positive results for hydrogen and the presence of DHC. Analytical results for TMW-11 confirm the ISCR process continues with elevated total iron, VFAs, alkalinity, pH, methane and ethene, and positive results for DHC and the presence of tceA reductase.

Table 17 shows the TCE concentrations for MW-61R, TMW-10 and TMW-11 over time and the percent TCE reductions post 90 day injection of the ISCR reagent. There has been a 76% reduction and a 90% reduction in TCE levels in MW-61R and TMW-11 respectively, indicating significant reduction of TCE is occurring near these wells. The cis-1,2-DCE results in Table 16 demonstrate an increase in cis-1,2-DCE levels in MW-61R and TMW-11 in comparison to baseline levels, which indicates that the ISCR injection enhanced microbial reductive dechlorination in the groundwater near these wells.

Evidence that the pilot process is affecting groundwater conditions near TMW-10 includes; increase in ferrous iron levels compared to baseline conditions; increase in cis-1,2-DCE levels, and the almost 46 percent reduction in TCE concentrations has been sustained for 90 days. TMW-10 is located approximately 50 feet northeast of the PRB wall located up-gradient of TMW-11 and approximately 50 feet southwest of the PRB wall located up-gradient of MW-61R (Figure 13). Analytical results for TMW-10 are an order of magnitude higher for TCE than levels reported in MW-61R and TMW-11, which may indicate a preferential flow path through TMW-11. This is supported by the observed subsurface profile at TMW-10, which includes an additional foot of clayey gravel and, during groundwater sampling, higher well purge rates (300 ml/min versus 150 ml/min) in comparison to MW-61R and TMW-11, which resulted in less drawdown (approximately 1.5 feet versus 3 feet).

A summary of the field and analytical monitoring data is discussed below:

- Field water quality parameters and laboratory geochemical and biochemical analytical data indicate that the ISCR injection impacted MW-61R and TMW-11 within approximately one month post injection. Specifically, there was a significant reduction in DO and ORP in MW-61R and TMW-11.
- The increase in cis-1,2-DCE concentrations in MW-61R and TMW-11 in comparison to baseline levels indicate that the ISCR injection enhanced microbial reductive dechlorination in the groundwater.
- There has been a 90% reduction in TCE at TMW-11 90 days after the ISCR injection which appears to be due to a combination of abiotic and biological reactions.
- There has been a 76% reduction in TCE at MW-61R 90 days after the ISCR injection which appears to be due to a combination of abiotic and biological reactions.
- There has been a 46% reduction in TCE levels in TMW-10, along with a slight increase in cis-1,2-DCE.
- The sum of the TCE concentrations for MW-61R, TMW-10 and TMW-11, 90 days after ISCR injection, showed a decreasing concentration trend from approximately 238 µg/L to 110 µg/L (~54% decrease).
- The TCE concentrations at MW-61R and TMW-11 are less than the MCL of 5 µg/L.

7 Summary and Conclusions

Ramboll Environ performed the 2016 First Quarter Groundwater Monitoring Event on behalf of Whirlpool during the weeks of January 4 and 11, 2016. The quarterly monitoring was conducted for collection of groundwater samples for analysis of VOCs and MNA parameters defined by the RADD as well as additional parameters not included in the RADD.

- The groundwater potentiometric surface observed during the first quarter event is generally consistent with that historically observed at the Site.
- The direction of the lateral hydraulic gradient continues to be influenced by a divide located just south of Ingersoll Avenue with directions of the hydraulic gradient predominantly to the northeast and south on either side of the general divide.
    - Groundwater north of the divide is flowing in a northeasterly direction; and
    - Groundwater south of the divide is flowing in a southern/southeasterly direction with a southwesterly trend south of the manufacturing building.
- First quarter event groundwater monitoring data shows generally stable to decreasing trends for TCE concentrations.
    - Plume boundary well data continue to show results generally consistent with historical TCE concentrations although trends in the northern portion of the plume near MW-61R have decreased due to ISCR injections;
    - Offsite well data are similar to previous monitoring events and continue to show generally stable to decreasing TCE concentration trends; and
    - Onsite well data continue to show generally stable to decreasing TCE concentration trends; although, the data has been influenced by the ISCO injections.
- The chemical, geochemical and microbial data from the first quarter event are similar to the quarterly monitoring events in 2014 and 2015. The VOC results demonstrate that reductive dechlorination is occurring in various locations of the plume.
- The ISCO events performed in 2014 and 2015 continue to be effective with TCE concentration reductions as follows:
    - Approximately 74% decrease since May 2014 at source area wells MW-25, MW-85 and MW-86;
    - Supplemental neck area decrease of approximately 93% since May 2014; and
    - Approximately 86% decrease since May 2014 at wells in Areas 2 and 3.
- The ISCR event performed in September/October 2015 is proving to be effective with TCE concentrations reducing as follows:
    - The TCE concentration in MW-61R has been reduced by 76% and the TCE concentration in TMW-11 has been reduced by 90% as of approximately 90 days after ISCR injection.

- The sum of TCE concentrations for wells monitored continue to show a decreasing concentration trend from approximately 238 µg/L to 110 µg/L (~54% decrease).

8 References

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Tables

TABLE 1
CONSTITUENTS OF CONCERN AND RADD GROUNDWATER REMEDIAL ACTION LEVELS
Whirlpool Facility - Fort Smith, Arkansas

Constituent of Concern	Remedial Action Level (ug/L)[1]
Acetone	12,000[2]
Benzene	5.0
Bromodichloromethane	80
Bromodichloromethane	80
Bromoform	7.0[2]
Bromomethane	4,900[2]
2-Butanone	720
Carbon Disulfide	5.0
Carbon Tetrachloride	100
Chlorobenzene	21,000[2]
Chloroform	80
Chloromethane	190[2]
Dibromochloromethane	80
1,1-Dichloroethane	2.4[2]
1,2-Dichloroethane	5.0
1,1-Dichloroethene	7.0
cis-1,2-Dichloroethene	70
trans-1,2-Dichloroethene	100
1,2-Dichloropropane	5.0
1,3-Dichloropropene	0.41[2]
Ethylbenzene	700
2-Hexanone	34[2]
4-Methyl-2-pentanone	1,000[2]
Methylene chloride	5.0
Styrene	100
1,1,2,2-Tethrachloroethane	0.066[2]
Tetrachloroethene (PCE)	5.0
Toluene	1,000
1,1,1-Trichloroethane	200
1,1,2-Trichlrorethane	5.0
Trichloroethene (TCE)	5.0
Vinyl chloride	2.0
Xylenes (total)	10,000

Notes:
RADD = Remedial action decision document
µg/L = Micrograms per liter
(1) = Maximum Contamination Level (USEPA, May 2013)
(2) = USEPA Tapwater Screeging Level (MCL and Maximum Contaminant Level Goal Unavailable)

TABLE 2
GROUNDWATER MONITORING WELL NETWORK SAMPLED
FOR RADD QUARTERLY EVENTS
Whirlpool Facility - Fort Smith, Arkansas

Plume Boundary Wells				
ITMW-2	ITMW-4	ITMW-6	ITMW-16	ITMW-20
MW-22	MW-26	MW-27	MW-28	MW-29
MW-31	MW-36	MW-39	MW-40	MW-50
MW-60	MW-61	MW-62	MW-63	MW-66
MW-67	MW-68	MW-96	MW-97	MW-98
MW-99	IW-72			

Offsite Wells				
MW-41	MW-46R	MW-55	MW-56	MW-57
MW-58	MW-71	MW-81	MW-82	IW-73
IW-74	IW-76	IW-77	RW-69	

Onsite Wells				
ITMW-1	ITMW-7	ITMW-9	ITMW-10	ITMW-11
ITMW-12	ITMW-13	ITMW-14	ITMW-15	ITMW-17
ITMW-18	ITMW-19	ITMW-21	MW-25	MW-32
MW-33	MW-34	MW-35R	MW-38	MW-65
MW-83	MW-84	MW-85	MW-86	MW-87
MW-88	MW-89	MW-90	MW-91	MW-92
MW-93	MW-94	MW-95	MW-172	IW-80

TABLE 3
SUMMARY OF MONITORING WELL STATIC WATER LEVEL MEASUREMENTS FIRST QUARTER 2016
Whirlpool Facility - Fort Smith, Arkansas

Location	Well Coordinates		TOC Elevation (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Screen Length (ft)	Top of screen Depth	Bottom of screen Depth	Screened Interval (ft)	Static Water Level Elevation (ft)				
	Easting (ft)	Northing (ft)								1/12/2015	4/13/2015	7/20/2015	10/5/2015	1/6/2016
ITMW-1	591383	368913	476.93	460.43	446.68	13.75	16.50	30.25	16.50 - 30.25	462.15	462.32	463.82	463.92	463.04
ITMW-2	591189	369021	474.97	462.22	447.77	14.45	12.75	27.20	12.75 - 27.20	464.27	463.55	464.87	464.85	464.25
ITMW-3	591306	369075	474.72	464.07	449.27	14.80	10.65	25.45	10.65 - 25.45	460.27	462.96	464.39	464.42	463.65
ITMW-4	591251	368208	478.19	459.99	445.99	14.00	18.20	32.20	18.20 - 32.20	466.85	462.18	463.38	463.41	462.76
ITMW-5	590982	368205	478.93	459.03	449.28	9.75	19.90	29.65	19.90 - 29.65	460.83	462.03	463.20	463.22	462.67
ITMW-6	590923	367970	483.04	461.39	446.89	14.50	21.65	36.15	21.65 - 36.15	466.20	461.94	462.94	462.86	462.49
ITMW-7	590546	368323	481.95	460.05	445.05	15.00	21.90	36.90	21.90 - 36.90	461.47	463.00	463.65	463.30	463.48
ITMW-9	591256	368146	481.90	461.95	448.45	13.50	19.95	33.45	19.95 - 33.45	461.68	462.07	463.27	463.29	462.67
ITMW-10	590978	368157	480.84	458.19	447.24	10.95	22.65	33.60	22.65 - 33.60	460.95	462.03	463.17	463.17	462.64
ITMW-11	590978	369040	474.07	458.82	445.37	13.45	15.25	28.70	15.25 - 28.70	459.11	464.15	465.39	465.26	464.83
ITMW-12	590998	369007	476.67	461.67	446.67	15.00	15.00	30.00	15.00 - 30.00	466.49	463.86	465.13	465.00	464.57
ITMW-13	591047	369052	477.79	463.79	448.79	15.00	14.00	29.00	14.00 - 29.00	464.60	463.84	465.10	465.01	464.54
ITMW-14	591098	369056	477.30	462.50	447.80	14.70	14.80	29.50	14.80 - 29.50	461.08	463.75	464.98	464.93	464.40
ITMW-15	590944	369043	474.50	459.50	444.50	15.00	15.00	30.00	15.00 - 30.00	462.39	463.59	465.38	465.25	464.85
ITMW-16	590967	369100	478.79	461.79	446.79	15.00	17.00	32.00	17.00 - 32.00	468.22	464.07	465.31	465.20	464.76
ITMW-17	590864	369051	477.90	461.90	446.90	15.00	16.00	31.00	16.00 - 31.00	462.77	463.94	465.16	465.03	464.67
ITMW-18	590976	368955	473.55	458.55	443.55	15.00	15.00	30.00	15.00 - 30.00	458.99	463.80	465.03	464.96	464.51
ITMW-19	590890	368961	476.25	460.25	445.25	15.00	16.00	31.00	16.00 - 31.00	465.94	463.80	465.11	465.01	464.59
ITMW-20	590370	369042	477.87	463.87	448.87	15.00	14.00	29.00	14.00 - 29.00	463.55	464.48	465.23	464.82	464.94
ITMW-21	590629	368898	476.52	460.52	445.52	15.00	16.00	31.00	16.00 - 31.00	462.56	464.28	465.12	464.78	464.78
MW-22	591853	368913	473.93	459.93	444.93	15.00	14.00	29.00	14.00 - 29.00	461.91	462.56	464.19	464.24	463.37
MW-23	590892	369238	475.80	461.80	446.80	15.00	14.00	29.00	14.00 - 29.00	465.50	464.13	465.32	464.93	464.84
MW-24	590876	369134	476.39	458.39	443.39	15.00	18.00	33.00	18.00 - 33.00	464.37	464.12	465.35	465.23	464.79
MW-25	590743	369006	476.89	459.89	444.89	15.00	17.00	32.00	17.00 - 32.00	464.27	464.19	465.37	465.22	464.87
MW-26	590566	369230	478.05	459.55	444.55	15.00	18.50	33.50	18.50 - 33.50	463.74	464.72	465.56	465.22	465.23
MW-27	591077	369226	475.42	460.42	445.42	15.00	15.00	30.00	15.00 - 30.00	462.91	464.11	465.33	465.21	464.79
MW-28	591324	369209	470.49	457.49	442.49	15.00	13.00	28.00	13.00 - 28.00	458.86	464.33	465.20	464.52	464.49
MW-29	590181	368371	474.91	458.91	443.91	15.00	16.00	31.00	16.00 - 31.00	468.30	463.93	464.42	463.87	464.51
MW-30	590579	368432	478.99	457.99	442.99	15.00	21.00	36.00	21.00 - 36.00	467.41	463.62	464.33	463.96	464.10
MW-31	590824	369286	476.03	458.53	448.53	10.00	17.50	27.50	17.50 - 27.50	460.52	NA	NA	NA	NA
MW-31R	590823	369288	475.73	455.73	445.73	10.00	20.00	30.00	20.00-30.00	NA	463.93	465.13	465.08	464.61
MW-32[1]	590909	369279	475.68	458.68	448.68	10.00	17.00	27.00	17.00 - 27.00	463.43	NA	NA	NA	NA
MW-32R	590908	369282	475.50	455.00	445.00	10.00	20.50	30.50	20.50-30.50	NA	463.94	465.09	465.05	464.61
MW-33[1]	590994	369276	474.88	459.08	449.08	10.00	15.80	25.80	15.80 - 25.80	462.96	NA	NA	NA	NA
MW-33R	590993	369277	474.60	455.60	445.60	10.00	19.00	29.00	19.00-29.00	NA	463.97	465.19	465.08	464.61
MW-34[1]	590932	369336	474.29	454.79	444.79	10.00	19.50	29.50	19.50 - 29.50	463.18	464.23	NA	NA	NA
MW-34R	590911	369339	474.23	452.73	445.73	7.00	21.50	28.50	21.50-28.50	NA	NA	465.43	465.37	464.91
MW-35R[3]	590994	369333	473.87	454.37	444.37	10.00	19.50	29.50	19.50 - 29.50	463.30	464.12	465.32	465.26	464.78
MW-36[1]	591079	369329	473.30	461.30	446.30	15.00	12.00	27.00	12.00 - 27.00	463.33	464.29	NA	NA	NA
MW-36R	591078	369328	472.98	452.98	443.98	9.00	20.00	29.00	20.00-29.00	NA	NA	465.27	465.20	464.73
MW-37	590972	369028	473.57	458.57	443.57	15.00	15.00	30.00	15.00 - 30.00	464.09	463.30	465.39	465.27	464.85

TABLE 3
SUMMARY OF MONITORING WELL STATIC WATER LEVEL MEASUREMENTS FIRST QUARTER 2016
Whirlpool Facility - Fort Smith, Arkansas

Location	Well Coordinates		TOC Elevation (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Screen Length (ft)	Top of screen Depth	Bottom of screen Depth	Screened Interval (ft)	Static Water Level Elevation (ft)				
	Easting (ft)	Northing (ft)								1/12/2015	4/13/2015	7/20/2015	10/5/2015	1/6/2016
MW-38	590960	369040	474.60	459.60	444.60	15.00	15.00	30.00	15.00 - 30.00	464.76	465.09	465.39	465.25	464.83
MW-39[1]	590833	369421	475.46	455.96	445.96	10.00	19.50	29.50	19.50 - 29.50	465.00	464.26	NA	NA	NA
MW-39R	590840	369429	474.72	450.22	445.22	5.00	24.50	29.50	24.50-29.50	NA	NA	465.41	465.32	464.84
MW-40[1]	590998	369622	473.35	455.60	445.60	10.00	17.75	27.75	17.75 - 27.75	461.60	464.25	NA	NA	NA
MW-40R	591013	369624	473.09	454.59	444.59	10.00	18.50	28.50	18.50 - 28.50	NA	NA	465.29	465.23	464.73
MW-41[1]	591061	369469	472.09	453.34	443.34	10.00	18.75	28.75	18.75 - 28.75	462.71	464.21	NA	NA	NA
MW-41R	591061	369478	471.84	453.84	443.84	10.00	18.00	28.00	18.00 - 28.00	NA	NA	465.13	465.10	464.63
MW-46R	591472	369609	465.79	449.19	444.19	5.00	16.60	21.60	16.60 - 21.60	457.50	462.85	464.88	464.67	464.40
MW-50	591415	370213	463.11	455.11	445.11	10.00	8.00	18.00	8.00 - 18.00	453.92	457.39	NA	NA	NA
MW-50R	591415	370210	462.65	449.65	444.65	5.00	13.00	18.00	13.00 - 18.00	NA	NA	455.84	455.32	455.35
MW-55[1]	591291	369893	465.50	450.00	445.00	5.00	15.50	20.50	15.50 - 20.50	nm	nm	NA	NA	NA
MW-55R	591291	369895	465.30	446.30	444.30	2.00	19.00	21.00	19.00 - 21.00	NA	NA	465.06	464.60	464.57
MW-56[1]	591687	369730	463.22	448.72	443.72	5.00	14.50	19.50	14.50 - 19.50	459.31	NA	NA	NA	NA
MW-56R	591687	369732	463.17	445.17	443.17	2.00	18.00	20.00	18.00 - 20.00	NA	NA	462.47	461.63	462.11
MW-57[1]	591690	369811	462.90	448.90	443.90	5.00	14.00	19.00	14.00 - 19.00	460.62	461.14	NA	NA	NA
MW-57R	591693	369806	462.92	447.92	442.92	5.00	15.00	20.00	15.00 - 20.00	NA	NA	462.26	461.26	462.04
MW-58[1]	591570	369907	462.71	450.21	445.21	5.00	12.50	17.50	12.50 - 17.50	461.01	NA	NA	NA	NA
MW-58R	591571	369898	465.98	451.98	446.98	5.00	14.00	19.00	14.00 - 19.00	NA	NA	464.68	463.83	463.88
MW-60[1]	591710	370193	460.85	448.85	443.85	5.00	12.00	17.00	12.00 - 17.00	452.54	455.03	NA	NA	NA
MW-60R	591710	370193	460.66	450.16	445.16	5.00	10.50	15.50	10.50 - 15.50	NA	NA	458.19	458.55	456.36
MW-61[1]	592003	370175	459.61	449.11	444.11	5.00	10.50	15.50	10.50 - 15.50	450.65	452.75	NA	NA	NA
MW-61R	591999	370175	459.31	448.81	443.81	5.00	10.50	15.50	10.50 - 15.50	NA	NA	454.63	456.38	452.14
MW-62[1]	591791	369569	464.33	448.83	443.83	5.00	15.50	20.50	15.50 - 20.50	464.03	459.87	NA	NA	NA
MW-62R	591790	369572	464.19	449.19	444.19	5.00	15.00	20.00	15.00 - 20.00	NA	NA	461.72	461.19	460.32
MW-63[1]	591994	369560	463.87	447.87	442.87	5.00	16.00	21.00	16.00 - 21.00	458.42	459.36	NA	NA	NA
MW-63R	591993	369559	463.94	448.94	443.94	5.00	15.00	20.00	15.00 - 20.00	NA	NA	462.29	462.08	460.93
MW-65[3]	590980	369335	473.91	454.41	444.41	10.00	19.50	29.50	19.50 - 29.50	473.57	464.12	465.70	465.25	464.78
MW-66	592280	369855	462.05	449.45	444.45	5.00	12.60	17.60	12.60 - 17.60	446.54	458.22	460.24	460.00	458.69
MW-67	592291	370027	459.01	449.41	444.41	5.00	9.60	14.60	9.60 - 14.60	451.40	456.87	NA	NA	NA
MW-67R	592291	370022	459.16	447.16	442.16	5.00	12.00	17.00	12.00 - 17.00	NA	NA	458.96	458.49	457.45
MW-68	591173	369815	469.81	455.81	445.81	10.00	14.00	24.00	14.00 - 24.00	474.49	464.19	465.23	465.07	464.79
RW-69[3]	591170	369678	470.89	455.89	445.89	10.00	15.00	25.00	15.00 - 25.00	464.96	463.83	464.97	464.82	464.42
MW-70	591162	369693	471.53	NA	NA	NA	NA	NA	NA	464.01	464.17	465.33	465.14	464.77
MW-71	591170	369695	471.35	NA	NA	NA	NA	NA	NA	463.64	464.20	465.35	465.17	464.79
IW-72[3]	591056	369590	471.65	456.65	446.65	10.00	15.00	25.00	15.00 - 25.00	464.33	464.04	465.19	465.12	464.63
IW-73	591060	369503	471.48	NA	NA	NA	NA	NA	NA	463.67	464.19	465.29	465.24	464.79
IW-74[2,3]	591058	369545	472.06	457.06	447.06	10.00	15.00	25.00	15.00 - 25.00	463.90	464.09	465.26	465.22	464.74
IW-75	591072	369605	472.17	NA	NA	NA	NA	NA	NA	464.29	464.07	465.36	465.25	464.84
IW-76	591050	369426	472.26	NA	NA	NA	NA	NA	NA	463.32	464.01	465.17	465.11	464.62
IW-77[2]	591027	369380	473.01	453.01	443.01	10.00	20.00	30.00	20.00 - 30.00	464.25	464.17	465.37	465.27	464.81
IW-78	590984	369338	473.49	NA	NA	NA	NA	NA	NA	464.12	464.14	465.38	465.23	464.80

TABLE 3
SUMMARY OF MONITORING WELL STATIC WATER LEVEL MEASUREMENTS FIRST QUARTER 2016
Whirlpool Facility - Fort Smith, Arkansas

Location	Well Coordinates		TOC Elevation (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Screen Length (ft)	Top of screen Depth	Bottom of screen Depth	Screened Interval (ft)	Static Water Level Elevation (ft)				
	Easting (ft)	Northing (ft)								1/12/2015	4/13/2015	7/20/2015	10/5/2015	1/6/2016
IW-79	591018	369335	473.84	NA	NA	NA	NA	NA	NA	464.40	464.14	465.39	465.28	464.80
IW-80[2,3]	591047	369343	473.30	453.30	443.30	10.00	20.00	30.00	20.00 - 30.00	463.03	464.00	465.21	465.14	464.68
IW-101	590930	369201	475.70	452.80	447.80	5.00	22.90	27.90	22.90-27.90	NA	NA	475.70	NA	464.66
IW-115	591007	369344	473.41	454.31	449.31	5.00	19.10	24.10	19.10-24.10	NA	NA	473.41	NA	464.64
IW-129	590989	368977	473.54	448.99	443.99	5.00	24.55	29.55	24.55 - 29.55	NA	NA	473.54	NA	NA
IW-130	590924	369186	475.58	452.20	447.28	5.00	23.38	28.30	23.38 - 28.38	NA	NA	475.58	NA	NA
IW-131	591006	369339	473.37	453.65	448.65	5.00	19.72	24.72	19.72 - 24.72	NA	NA	473.37	NA	NA
MW-81	590977	369395	473.54	453.54	448.54	5.00	20.00	25.00	20.00-25.00	463.68	464.15	465.33	465.25	464.75
MW-82	591039	369406	473.60	452.60	447.60	5.00	21.00	26.00	21.00-26.00	463.82	464.15	465.35	465.26	464.76
MW-83	590946	369211	475.48	453.48	448.48	5.00	22.00	27.00	22.00-27.00	463.67	464.02	465.25	465.01	464.72
MW-84	590882	369194	475.53	451.53	446.53	5.00	24.00	29.00	24.00-29.00	463.60	463.93	465.19	464.97	466.39
MW-85	590760	369018	474.41	449.41	444.41	5.00	25.00	30.00	25.00-30.00	463.61	464.00	465.21	465.06	464.68
MW-86	590767	368995	473.19	450.19	445.19	5.00	23.00	28.00	23.00-28.00	463.50	463.74	465.10	464.99	464.64
MW-87	592269	368835	470.78	453.78	443.78	10.00	17.00	27.00	17.00-27.00	459.67	459.66	460.74	460.91	460.48
MW-88	592151	369043	468.89	450.89	440.89	10.00	18.00	28.00	18.00-28.00	460.80	459.38	461.49	462.85	461.49
MW-89	592357	369059	466.91	451.91	441.91	10.00	15.00	25.00	15.00-25.00	458.05	458.10	459.05	459.23	458.98
MW-90	592157	369157	466.71	451.71	441.71	10.00	15.00	25.00	15.00-25.00	460.99	459.90	460.67	463.26	462.13
MW-91	592371	368830	468.90	453.90	443.90	10.00	15.00	25.00	15.00-25.00	459.04	459.03	460.11	460.19	459.79
MW-92	590778	368921	473.74	453.74	443.74	10.00	20.00	30.00	20.00-30.00	463.66	464.06	465.29	465.17	464.89
MW-93	590908	368894	477.81	452.81	442.81	10.00	25.00	35.00	25.00-35.00	463.51	463.86	465.12	465.08	464.57
MW-94	591015	368903	477.86	452.86	442.86	10.00	25.00	35.00	25.00-35.00	463.36	463.70	464.97	464.94	464.42
MW-95	590981	368821	477.63	452.63	442.63	10.00	25.00	35.00	25.00-35.00	463.40	463.77	465.01	464.98	464.45
MW-96	592775	369354	457.83	447.83	442.83	5.00	10.00	15.00	10.00-15.00	450.13	449.59	449.73	449.84	450.60
MW-97	592687	369527	459.43	447.93	442.93	5.00	11.50	16.50	11.50-16.50	448.41	448.80	449.53	450.55	450.84
MW-98	592840	369198	461.62	446.62	441.62	10.00	15.00	20.00	15.00-20.00	450.18	449.16	449.86	449.35	450.70
MW-99	592554	368814	466.80	448.30	443.30	5.00	18.50	23.50	18.50-23.50	458.73	458.70	459.89	459.87	459.51
MW-172	590858	369002	472.94	454.94	444.94	10.00	18.00	28.00	18.00-28.00	NA	464.94	465.27	465.14	464.73
MW-173	591973	369624	463.56	458.56	457.56	1.00	5.00	6.00	5.00-6.00	NA	457.61	462.63	461.81	462.31
MW-174	591976	369644	463.45	452.45	451.45	1.00	11.00	12.00	11.00-12.00	NA	457.67	459.92	461.75	459.71
MW-175	591603	369655	464.17	450.67	449.67	1.00	13.50	14.50	13.50-14.50	NA	460.25	463.71	463.47	463.37
MW-176	591474	369675	465.24	452.24	451.24	1.00	13.00	14.00	13.00-14.00	NA	463.81	464.66	464.49	464.38
MW-177	591148	369698	471.50	462.50	461.50	1.00	9.00	10.00	9.00-10.00	NA	466.94	469.09	465.34	469.97
MW-178	590973	369232	475.40	468.40	467.40	1.00	7.00	8.00	7.00-8.00	NA	471.94	471.94	471.48	471.93
MW-179	590984	369232	475.39	463.39	462.39	1.00	12.00	13.00	12.00-13.00	NA	462.70	467.66	464.23	465.93
MW-180	590996	369231	475.32	469.32	468.32	1.00	6.00	7.00	6.00-7.00	NA	471.76	471.69	471.46	471.81
MW-181	591156	369695	471.87	465.87	464.87	1.00	6.00	7.00	6.00-7.00	NA	467.56	468.35	456.87	469.37
MW-182	590403	367900	474.64	453.64	443.64	10.00	21.00	31.00	21.00-31.00	NA	NA	NA	461.60	461.51
MW-183	592664	369246	462.42	447.42	442.42	5.00	15.00	20.00	15.00-20.00	NA	NA	NA	450.11	450.50
MW-184	592646	369023	465.58	446.58	441.58	5.00	19.00	24.00	19.00-24.00	NA	NA	NA	458.42	458.38
MW-185	592256	367995	473.86	453.86	443.86	10.00	20.00	30.00	20.00-30.00	NA	NA	NA	463.49	462.66
MW-186	590124	367716	469.80	451.80	441.80	10.00	18.00	28.00	18.00-28.00	NA	NA	NA	457.18	457.33

TABLE 3
SUMMARY OF MONITORING WELL STATIC WATER LEVEL MEASUREMENTS FIRST QUARTER 2016
Whirlpool Facility - Fort Smith, Arkansas

Location	Well Coordinates		TOC Elevation (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Screen Length (ft)	Top of screen Depth	Bottom of screen Depth	Screened Interval (ft)	Static Water Level Elevation (ft)				
	Easting (ft)	Northing (ft)								1/12/2015	4/13/2015	7/20/2015	10/5/2015	1/6/2016
MW-187	590249	367588	477.42	453.42	443.42	10.00	24.00	34.00	24.00-34.00	NA	NA	NA	459.06	459.15
MW-188	590646	367509	481.14	455.14	445.14	10.00	26.00	36.00	26.00-36.00	NA	NA	NA	462.10	461.91
MW-189	590860	367666	485.59	454.59	444.59	10.00	31.00	41.00	31.00-41.00	NA	NA	NA	462.83	462.44
MW-190	591325	367745	481.29	454.29	444.29	10.00	27.00	37.00	27.00-37.00	NA	NA	NA	463.27	462.70
MW-191	591662	367732	476.85	453.85	443.85	10.00	23.00	33.00	23.00-33.00	NA	NA	NA	463.37	462.72
MW-192	592078	367679	475.33	454.33	444.33	10.00	21.00	31.00	21.00-31.00	NA	NA	NA	463.42	462.69
MW-193	592312	370289	455.26	447.76	442.76	5.00	7.50	12.50	7.50-12.50	NA	NA	NA	451.25	453.30
TMW-10	591973	370113	460.75	450.25	445.25	5.00	10.50	15.50	10.50-15.50	NA	NA	NA	NA	455.53
TMW-11	591956	370078	460.20	449.70	444.70	5.00	10.50	15.50	10.50-15.50	NA	NA	NA	NA	455.49

Notes:
ft = Feet
NA = Not available (not installed or abandoned/replaced)
nm = Not measured
Horizontal and vertical coordinates converted to Arkansas State Plane, North Zone (NAD83) and North American Vertical Datum of 1988 (NAVD88) based on information provided in historic site file. Casing elevations for ITMW-1 through ITMW-21 and MW-22 extracted from 2011/2012 Annual Ground Water Monitoring Report dated June 28, 2012.
Casing elevations for remaining wells extracted from survey data provided by Philip J. Leraris, PE, LS, dated May 12, 2009.
IW-129, IW-130, IW-131, and MW-81 to MW-99 surveyed during 2014
Well screen intervals and depths adapted from monitoring well construction diagrams.
1 = Construction diagram notes use of pre-packed stainless steel screen
2 = Construction diagram text and graphical representation differ on construction details. Graphical representation used to infer elevations
3 = Construction diagram notes presence of sedimentation sump below screened interval

TABLE 4
SUMMARY OF FINAL WELL GROUND WATER FIELD PARAMETERS MEASUREMENTS (Janurary 2016)
Whirlpool Facility - Fort Smith, Arkansas

Location	Well Casing Diameter (in)	Date Sampled	Water Level prior to Purging (ft btoc)	Total Depth of Well Casing (ft)	Set Tubing Depth (ft)	Time Sampled	Water Level after Purging (ft btoc)	Purge Volume (Gallons)	Purge Rate (ml/min)	Temperature (°C)	Specific Conductivity (µS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTUs)	Ferrous Iron (mg/L)	Persulfate (mg/L)	Color	Sample ID
ITMW-1	4	1/13/2016	13.80	33.87	28.87	16:30	13.80	0.8	100	12.87	537	1.61	6.00	67.9	20.04	0.00	NM	Clear	ITMW-1-201601
ITMW-2	4	1/12/2016	10.91	26.70	22.00	15:20	10.96	1.5	100	18.44	354	1.85	6.08	320.0	2.17	0.44	NM	Clear	ITMW-2-201601
ITMW-3^	4	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA
ITMW-4	4	1/12/2016	15.57	32.16	27.57	13:25	15.56	2.0	100	17.16	234	0.34	6.37	-72.0	14.6	0.18	NM	Clear	ITMW-4-201601
ITMW-5^	4	NM	NM	NM	NM	.	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA
ITMW-6	4	1/12/2016	20.66	39.30	34.30	16:45	20.68	1.6	100	15.52	1072	2.11	5.96	229.7	10.98	0.01	NM	Clear	ITMW-6-201601
ITMW-7	4	1/13/2016	18.67	38.08	33.08	11:42	18.72	1.5	100	15.47	1502	0.24	5.30	303.4	0.58	0.13	NM	Clear	ITMW-7-201601
ITMW-9	4	1/13/2016	19.32	36.05	29.30	11:45	19.32	1.5	100	15.82	513	0.34	6.10	282.5	1.93	0.00	NM	Clear	ITMW-9-201601
ITMW-10	4	1/13/2016	18.13	36.69	31.69	16:26	18.21	1.7	100	18.04	1091	0.18	6.45	220.3	1.05	0.00	NM	Clear	ITMW-10-201601
ITMW-11	4	1/13/2016	9.30	29.92	21.50	15:30	9.30	2.0	100	19.71	506	0.92	6.04	346.5	0.98	0.00	200	Clear	ITMW-11-201601
ITMW-12	4	1/13/2016	12.23	33.62	28.62	13:40	12.23	2.0	100	17.34	479	1.49	5.87	301.9	0.86	0.00	0	Clear	ITMW-12-201601
ITMW-13	4	1/13/2016	13.41	31.70	26.70	11:30	13.46	1.8	100	14.36	223	1.69	5.95	291.1	0.21	0.04	50	Clear	ITMW-13-201601
ITMW-14	4	1/12/2016	13.10	32.57	27.57	13:35	13.15	1.5	100	16.11	125	1.54	5.85	303.5	3.21	0.00	NM	Clear	ITMW-14-201601
ITMW-15	4	1/13/2016	9.91	30.03	25.03	09:30	9.93	2.0	100	16.09	1369	4.09	11.61	90.6	3.34	0.09	210	Clear	ITMW-15-201601
ITMW-16	4	1/13/2016	14.18	35.87	30.87	09:20	14.57	1.0	100	13.31	152	6.41	6.72	206.8	15.2	0.00	0	sligth light brown tint	ITMW-16-201601
ITMW-17	4	1/13/2016	13.39	29.94	25.00	13:15	13.37	1.2	100	17.10	962	11.60	5.39	-94.3	1.02	0.00	0	Clear	ITMW-17-201601
ITMW-18	4	1/13/2016	9.19	29.31	24.00	09:25	9.21	1.6	100	10.86	5789	2.25	6.02	335.5	0.68	0.00	2800	Clear	ITMW-18-201601
ITMW-19	4	1/13/2016	11.65	34.45	29.45	14:50	11.88	1.6	100	14.50	8290	5.01	7.07	314.4	1.04	0.00	7200	Clear	ITMW-19-201601
ITMW-20	4	1/12/2016	13.04	30.95	25.95	15:35	13.29	1.0	100	18.49	511	2.10	5.74	-49.0	2.25	0.00	NM	Clear	ITMW-20-201601
ITMW-21	4	1/13/2016	11.91	33.15	28.15	09:06	12.19	1.8	100	12.04	3594	1.99	5.58	286.3	0.44	0.03	NM	Clear	ITMW-21-201601
MW-22	4	1/12/2016	10.68	29.02	24.00	15:25	10.76	0.8	100	15.64	170	0.90	5.34	156.7	0.31	0.25	NM	Clear	MW-22-201601
MW-23	4	1/7/2016	10.74	27.87	22.87	12:55	10.74	1.6	100	15.90	6695	0.75	11.54	168.2	7.06	0.00	4200	Slightly turbid	MW-23-201601
MW-24	4	1/7/2016	11.40	32.31	27.31	10:10	11.40	1.6	100	12.10	4330	0.51	3.50	548.8	3.00	0.00	1400	Clear	MW-24-201601
MW-25	4	1/13/2016	12.12	34.45	29.50	13:50	12.26	1.7	100	18.57	6660	1.64	5.83	410.1	3.39	0.01	1400	Clear	MW-25-201601
MW-26	4	1/13/2016	12.99	34.92	30.00	11:10	13.16	1.5	100	14.34	1133	0.30	5.32	-226.3	1.04	0.00	NM	Clear	MW-26-201601
MW-27	2	1/12/2016	10.85	30.00	25.00	09:20	10.89	2.0	100	16.87	189	2.39	5.87	167.0	15.2	0.18	NM	Clear	MW-27-201601
MW-28	2	1/12/2016	6.22	27.24	22.24	11:50	6.51	2.5	100	18.32	307	0.82	6.11	202.3	1.20	0.00	NM	Clear	MW-28-201601
MW-29	2	1/13/2016	10.66	30.07	25.00	09:20	10.73	1.5	100	13.56	580	0.52	5.05	-162.4	2.99	0.00	NM	Clear	MW-29-201601
MW-30^	4	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA
MW-31R	2	1/12/2016	11.24	27.10	22.10	15:10	11.26	1.5	100	18.53	582	0.61	5.28	176.4	2.45	0.87	NM	Clear	MW-31R-201601
MW-32R	2	1/12/2016	11.05	29.82	24.82	17:15	11.09	2.0	100	16.97	1713	0.24	4.94	425.8	25.3	0.06	140	hazy brown hue	MW-32R-201601
MW-33R	2	1/8/2016	9.70	29.32	24.32	13:10	9.77	1.5	100	16.52	1104	0.73	5.25	338.3	7.57	0.00	70	Slightly turbid	MW-33R-201601
MW-34R	2	1/11/2016	9.56	28.50	25.00	10:45	9.55	2.0	100	14.26	1110	0.18	5.53	-225.7	57.1	2.46	70	Light Yellow	MW-34R-201601
MW-35R	2	1/11/2016	9.27	31.70	26.70	12:15	9.31	1.4	100	15.38	15013	3.34	6.08	548.6	3.37	0.00	7000	Clear	MW-35R-201601
MW-36R	2	1/11/2016	8.48	29.00	24.50	10:20	8.51	1.8	100	14.15	6406	1.39	5.21	516.4	91.30	0.11	2100	light yellowish brown	MW-36R-201601
MW-37^	2	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA
MW-38	2	1/13/2016	9.79	30.31	25.31	15:00	9.84	1.5	100	18.85	670	0.53	7.09	-10.9	9.11	1.67	0.00	Clear	MW-38-201601
MW-39R	2	1/12/2016	10.08	29.40	26.90	13:15	10.24	1.5	100	16.44	889	1.61	6.20	6.4	6.18	3.30	NM	Clear	MW-39R-201601
MW-40R	2	1/12/2016	8.53	28.03	23.00	09:35	8.57	2.0	100	14.20	894	0.28	6.08	-180.8	8.36	3.30	NM	Clear	MW-40R-201601
MW-41R	2	1/12/2016	7.46	28.00	23.00	11:20	7.46	2.0	100	14.63	1232	1.01	6.11	-245.5	4.91	3.30	NM	Clear	MW-41R-201601
MW-46R	2	1/12/2016	1.75	21.34	18.84	15:56	1.89	2.5	100	16.22	1036	0.68	4.88	299.7	2.10	0.18	NM	Clear	MW-46R-201601
MW-50R	2	1/11/2016	7.48	18.25	15.75	09:55	8.35	1.2	100	13.12	1177	0.64	6.56	53.8	14	1.43	NM	light brown	MW-50R-201601
MW-55R	2	1/12/2016	0.73	21.00	20.00	08:55	1.83	1.5	100	11.54	219	1.25	6.56	206.4	9.25	0.00	NM	Clear	MW-55R-201601
MW-56R	2	1/11/2016	1.50	19.76	18.76	13:30	1.57	0.5	100	13.09	833	0.91	6.09	-81.0	4.11	0.00	NM	Clear	MW-56R-201601
MW-57R	2	1/11/2016	0.97	19.37	16.87	15:00	1.76	0.8	100	14.55	928	0.32	5.75	-155.1	9.65	0.00	NM	Clear	MW-57R-201601
MW-58R	2	1/12/2016	2.29	19.00	16.50	10:15	2.97	1.5	100	11.53	948	0.66	5.51	-93.2	33.31	3.30	NM	Brown	MW-58R-201601
MW-60R	2	1/11/2016	4.49	14.90	12.40	12:15	7.68	1.3	100	16.49	1172	1.28	6.98	27.4	22.4	0.32	NM	Clear	MW-60R-201601
MW-61R	2	1/8/2016	7.10	15.30	12.80	9:50	9.85	2.0	150	16.18	1207	0.21	6.82	-117.3	17.0	3.00	NM	very pale yellow	MW-61R-201601
MW-62R	2	1/11/2016	4.04	19.86	17.36	11:35	4.59	1.5	100	11.98	663	1.13	5.75	-60.6	7.20	0.00	NM	Clear	MW-62R-201601
MW-63R	2	1/12/2016	3.12	20.00	17.50	9:10	6.21	1.2	100	9.47	565	2.89	5.93	156.8	1.99	0.21	NM	Clear	MW-63R-201601

TABLE 4
SUMMARY OF FINAL WELL GROUND WATER FIELD PARAMETERS MEASUREMENTS (Janurary 2016)
Whirlpool Facility - Fort Smith, Arkansas

Location	Well Casing Diameter (in)	Date Sampled	Water Level prior to Purging (ft btoc)	Total Depth of Well Casing (ft)	Set Tubing Depth (ft)	Time Sampled	Water Level after Purging (ft btoc)	Purge Volume (Gallons)	Purge Rate (ml/min)	Temperature (°C)	Specific Conductivity (µS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTUs)	Ferrous Iron (mg/L)	Persulfate (mg/L)	Color	Sample ID
MW-65	2	1/11/2016	9.30	31.39	26.50	12:35	9.30	2.5	100	16.57	13125	2.46	12.09	-53.4	7.48	0.00	7000	pale yellow	MW-65-201601
MW-66	2	1/11/2016	3.52	17.46	15.00	16:25	3.52	0.9	100	14.57	243	2.99	6.52	84.9	111.0	0.56	NM	light brown	MW-66-201601
MW-67R	2	1/11/2016	1.93	17.00	14.50	14:35	9.72	1.7	100	16.84	968	0.59	6.79	9.5	8.92	2.82	NM	Clear	MW-67R-201601
MW-68	2	1/12/2016	5.18	20.05	15.05	11:12	5.35	1.25	100	15.09	907	3.08	5.12	272.3	1.11	0.10	NM	Clear	MW-68R-201601
MW-70^	2	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA
MW-71	2	1/11/2016	6.61	27.20	22.20	16:15	6.63	1.30	100	14.38	880	1.32	5.79	228.5	2.02	0.15	NM	Clear	MW-71-201601
RW-69	4	1/12/2016	6.67	28.39	23.39	13:30	6.68	1.3	100	15.26	1223	3.74	5.42	255.8	1.76	0.00	NM	Clear	RW-69-201601
IW-72	2	1/12/2016	7.19	24.62	19.60	9:30	7.29	1.5	100	15.75	1075	3.33	5.92	638.5	7.93	0.00	NM	light purple	IW-72-201601
IW-73	2	1/12/2016	6.90	26.65	21.65	14:10	6.86	1.5	100	17.15	728	0.47	6.11	-263.6	3.03	0.00	NM	Clear	IW-73-201601
IW-74	2	1/12/2016	7.59	27.15	22.20	10:55	7.64	1.1	100	16.55	1087	1.74	5.71	499.9	2.43	0.00	NM	Clear	IW-74-201601
IW-75^	2	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Clear	NA
IW-76	2	1/12/2016	7.78	27.21	22.21	16:00	7.80	1.5	100	15.84	6655	0.30	5.01	217.7	8.92	0.00	NM	very pale yellow/light brow	IW-76-201601
IW-77	2	1/11/2016	8.27	28.43	23.40	15:15	8.30	1.7	100	16.93	7164	1.27	7.14	487.2	3.65	0.00	2800	Slight yellow tint	IW-77-201601
IW-78	2	1/11/2016	8.94	29.00	24.00	10:30	8.94	2.50	100	15.57	9387	1.42	6.24	413.3	5.73	0.50	>35000	clear	IW-78-201601
IW-79	2	1/11/2016	9.24	28.90	23.90	12:25	9.21	2.50	100	18.57	3983	1.95	8.00	295.7	9.59	0.00	4000	clear	IW-79-201601
IW-80	2	1/7/2016	8.26	29.40	24.40	15:50	8.24	1.6	100	16.81	7814	1.82	6.22	479.5	12.94	0.00	10500	Slightly turbid	IW-80-201601
MW-81	2	1/11/2016	8.80	24.31	21.80	17:00	8.83	1.7	100	15.51	4004	1.58	6.50	476.8	3.42	0.00	2100	clear	MW-81-201601
MW-82	2	1/11/2016	8.85	25.80	23.30	15:30	8.85	2.0	100	16.30	3768	0.19	5.62	-9.5	3.85	0.00	2100	very pale yellow	MW-82-201601
MW-83	2	1/7/2016	10.54	26.53	24.00	10:15	10.56	1.7	100	17.20	9580	3.01	6.55	425.8	3.16	0.38	8400	Slight yellow tint	MW-83-201601
MW-84	2	1/7/2016	10.72	23.46	21.00	11:00	10.79	1.5	100	15.68	11608	4.50	7.06	147.4	3.71	0.02	11200	light yellow	MW-84-201601
MW-85	2	1/13/2016	9.93	27.82	25.30	11:20	9.96	1.0	100	17.71	5015	3.90	5.46	444.4	3.96	0.05	700	clear	MW-85-201601
MW-86	2	1/13/2016	8.58	27.90	25.40	15:45	8.74	1.6	100	19.38	7502	2.59	5.98	359.3	2.01	0.00	280	Clear	MW-86-201601
MW-87	2	1/13/2016	10.65	26.70	21.70	8:50	10.65	1.3	100	14.74	401	0.33	5.70	227.6	1.40	0.00	NM	Clear	MW-87-201601
MW-88	2	1/12/2016	7.61	28.15	23.00	13:35	8.48	1.1	100	20.29	411	0.28	6.07	75.0	3.17	0.96	NM	Clear	MW-88-201601
MW-89	2	1/12/2016	8.11	24.95	20.00	17:20	8.73	0.9	100	16.45	892	1.12	5.38	165.3	1.62	0.00	NM	Clear	MW-89-201601
MW-90	2	1/12/2016	4.70	25.04	20.00	11:15	12.79	1.6	100	18.56	753	0.26	6.17	49.4	4.36	0.85	NM	Clear	MW-90-201601
MW-91	2	1/13/2016	9.05	25.60	20.60	16:30	9.22	0.8	100	21.27	339	0.93	6.12	233.4	2.31	0.05	NM	Clear	MW-91-201601
MW-92	2	1/13/2016	9.10	29.16	24.16	14:00	9.06	1.7	100	12.64	2899	0.90	5.18	213.0	54.31	0.00	420	slightly turbid	MW-92-201601
MW-93	2	1/13/2016	13.20	34.21	31.71	14:23	13.25	1.0	100	18.50	991	0.41	5.19	369.2	9.45	0.42	NM	clear slighty haze	MW-93-201601
MW-94	2	1/13/2016	13.62	34.72	29.72	11:02	13.62	1.5	100	17.86	2359	0.25	5.16	449.6	1.38	0.06	420	Clear	MW-94-201601
MW-95	2	1/13/2016	13.25	34.89	29.89	13:06	13.38	1.0	100	18.40	1213	0.27	5.29	408.1	0.19	0.49	0.00	Clear	MW-95-201601
MW-96	2	1/12/2016	7.57	14.32	11.82	11:05	7.98	2.0	100	17.08	170	0.65	5.23	186.8	3.43	0.40	NM	clear very slight haze	MW-96-201601
MW-97	2	1/12/2016	8.84	15.02	12.52	13:00	10.60	0.8	50	15.90	306	1.56	5.79	203	4.64	0.02	NM	Clear	MW-97-201601
MW-98	2	1/11/2016	11.05	19.52	16.02	13:33	14.89	1.5	50	13.66	291	1.53	6.29	173.4	3.68	0.03	NM	Clear	MW-98-201601
MW-99	2	1/11/2016	7.44	22.55	20.05	9:35	7.56	1.0	100	12.31	163	2.62	6.21	204.4	13.0	0.00	NM	Clear	MW-99-201601
IW-101	2	1/7/2016	10.79	27.90	25.50	13:35	10.86	2.2	100	19.09	4897	3.08	3.87	530.7	10.16	0.20	3500	Clear	IW-101-201601
IW-115	2	1/11/2016	8.87	23.90	21.40	14:15	8.90	2.5	100	18.22	1362	0.62	10.20	140	28.3	0.03	800.00	very light tan	IW-115-201601
MW-172	2	1/13/2016	8.25	27.71	22.70	15:00	8.23	1.5	100	16.96	2125	1.8	5.25	-89.1	2.95	0.03	140	Clear	MW-172-201601
MW-173	2	1/12/2016	3.68	5.59	5.00	11:10	3.68	0.8	50-75	13.64	519	0.06	8.24	26.7	3.44	NM	NM	strong odor	MW-173-201601
MW-174	2	1/12/2016	4.75	12.16	11.80	10:00	7.24	1.0	75	15.36	394	0.48	7.33	4.4	3.67	NM	NM	Clear	MW-174-201601
MW-175	2	1/11/2016	1.89	14.27	13.80	10:35	5.00	1.0	100	13.01	3582	7.3	12.99	28.3	7.45	NM	NM	slight yellow tint	MW-175-201601
MW-176	2	1/12/2016	1.00	15.00	14.50	13:35	2.31	1.0	75-100	12.80	900	1.6	6.72	20.3	9.46	NM	NM	Clear	MW-176-201601
MW-177	2	1/11/2016	2.17	9.85	9.20	14:50	7.10	1.5	100	11.99	199	6.27	7.13	41.1	4.11	NM	NM	Clear	MW-177-201601
MW-180	2	1/14/2016	3.49	6.78	6.20	8:20	6.80	0.5	75	14.72	900	7.71	13.19	7.5	28.6	NM	NM	Clear	MW-180-201601
MW-181	2	1/11/2016	2.14	6.21	5.80	15:45	5.49	1.5	100	10.19	178	8.90	6.78	49.1	3.46	NM	NM	Clear	MW-181-201601
MW-182	2	1/13/2016	13.08	31.00	26.00	14:20	13.00	2.0	100	15.01	1653	0.19	6.05	247.8	2.31	0.00	NM	Clear	MW-182-201601
MW-183	2	1/12/2016	12.00	20.00	15.00	10:41	14.03	1.3	75-100	11.69	262	3.19	6.21	231.3	2.57	0.03	NM	Clear Slight Haze	MW-183-201601
MW-184	2	1/11/2016	7.40	24.00	21.50	11:05	8.27	1.0	100	14.33	139	0.99	5.93	192.4	16.8	0.10	NM	Clear	MW-184-201601

TABLE 4
SUMMARY OF FINAL WELL GROUND WATER FIELD PARAMETERS MEASUREMENTS (Janurary 2016)
Whirlpool Facility - Fort Smith, Arkansas

Location	Well Casing Diameter (in)	Date Sampled	Water Level prior to Purging (ft btoc)	Total Depth of Well Casing (ft)	Set Tubing Depth (ft)	Time Sampled	Water Level after Purging (ft btoc)	Purge Volume (Gallons)	Purge Rate (ml/min)	Temperature (^{o}C)	Specific Conductivity (µS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTUs)	Ferrous Iron (mg/L)	Persulfate (mg/L)	Color	Sample ID
MW-185	2	1/11/2016	11.31	30.00	25.00	9:56	11.29	2.0	100	16.40	289	1.38	6.83	156.1	191	0.00	NM	light brown	MW-185-201601
MW-186	2	1/7/2016	12.04	27.85	22.80	15:25	12.34	1.4	100	14.93	761	0.62	5.95	378.6	5.12	0.00	NM	Clear	MW-186-201601
MW-187	2	1/8/2016	17.84	30.24	27.70	13:25	17.91	1.7	100	15.64	953	0.45	9.51	-19.5	148	0.00	NM	light yellow brown	MW-187-201601
MW-188	2	1/8/2016	18.89	34.07	29.00	13:20	18.89	1.0	100	13.09	906	0.59	6.27	-58.7	72.0	0.63	NM	light murky yellow	MW-188-201601
MW-189	2	1/7/2016	22.71	40.85	35.50	15:35	22.70	1.0	100	14.85	379	0.69	6.16	66.4	6.45	0.06	NM	Clear	MW-189-201601
MW-190	2	1/11/2016	18.56	36.17	31.17	17:00	18.64	1.5	100	16.79	2288	0.58	12.00	-235.2	78.7	0.00	NM	light tan	MW-190-201601
MW-191	2	1/11/2016	14.10	33.00	28.30	14:46	14.09	1.5	100	17.68	307	0.35	6.46	200.2	9.36	0.00	NM	Clear	MW-191-201601
MW-192	2	1/11/2016	12.74	29.80	24.28	12:42	12.66	1.8	100	15.07	194	0.54	5.61	22.95	5.64	0.00	NM	Clear	MW-192-201601
MW-193	2	1/11/2016	2.05	12.50	10.00	15:08	2.62	0.8	50	14.40	264	1.34	5.64	221.0	60.3	0.14	NM	Clear Brown Hue	MW-193-201601

Notes:

ft btoc = Feet below top of casing
in = Inches
ORP = Oxidation reduction potential
DO = Dissolved oxygen
(^{o}C) = Degrees Celcius
mV = Millivolts
^ = Well not sampled
mL/min = Milliliters per minute
mg/L = Milligrams per liter
NTUs = Nephelometric turbidity units
NM = Not measured
(µS/cm) = Microsiemens per centimeter
-- = Color not noted

All wells gauged using electronic water level meter and purged using peristaltic pumps.
Tubing inlet depths based on estimated distance from total depth.

TABLE 5
SUMMARY OF VERTICAL HYDRAULIC GRADIENT
Whirlpool Facility - Fort Smith, Arkansas

Location/ Well Pairs	Middle of Screen Elevation[2] (ft)	Static Water Level Elevation (ft)				Vertical Hydraulic Gradient[1] (ft/ft)			
		4/13/2015	7/20/2015	10/5/2015	1/6/2016	4/13/2015	7/20/2015	10/5/2015	1/6/2016
Shallow Wells MW-181 and MW-177									
MW-177	462.00	466.94	469.09	465.34	469.97				
MW-70	451.53	464.17	465.33	465.15	464.77				
MW-177/MW-70						-0.26	-0.36	-0.02	-0.50
Shallow Well MW-176									
MW-176	451.74	463.81	464.66	464.49	464.38				
MW-46R	446.69	462.85	464.88	464.67	464.40				
MW-176/MW-46R						-0.19	0.04	0.04	0.004
Shallow Well MW-175									
MW-175	450.17	460.25	463.71	463.47	463.37				
Ave. of MW-46R & MW-56/56R	445.43	461.54	463.68	463.15	463.26				
MW-175/Ave. of MW-46R & MW-56/56R						0.35	-0.007	-0.07	-0.02
Shallow Wells MW-173 and MW-174									
MW-174	451.95	457.67	459.92	461.75	459.71				
MW-63/MW-63R	446.44	459.36	462.29	462.08	460.93				
MW-174/MW-63						0.26	0.43	0.06	0.22
Shallow Wells MW-178, MW-179 and MW-180									
MW-178	467.90	472.29	471.94	471.48	471.93				
MW-83	450.98	464.02	465.25	465.01	464.72				
MW-178/MW-83						-0.49	-0.40	-0.38	-0.43

Notes:

ft = Feet

[1] Negative gradient indicates downward gradient

[2] Reference elevations for screen intervals were changed from ground surface to top of casing for the First Quarter 2016 Annual Groundwater Monitoring Report.

RAMBOLL ENVIRON

TABLE 6
SUMMARY OF MONITORING WELL GROUNDWATER SAMPLE ANALYTICAL RESULTS
(FIRST QUARTER 2016)
Whirlpool Facility - Fort Smith, Arkansas

Location	Remedial Action Levels per ADEQ RADD Issued Dec 2013	ITMW-1	ITMW-7	ITMW-9	ITMW-9	ITMW-10	ITMW-10	ITMW-11	ITMW-11	ITMW-12	ITMW-13	ITMW-13	ITMW-14	ITMW-15
Field Sample ID		ITMW-1-201601	ITMW-7-201601	ITMW-9-201601	DUP-04-201601	ITMW-10-201601	DUP-01-201601	ITMW-11-201601	DUP-03-201601	ITMW-12-201601	ITMW-13-201601	DUP-02-201601	ITMW-14-201601	ITMW-15-201601
Lac Sample ID(s)		021NA086, 179440023	021NA091, 179440031	021NA074, 179440036	60211236030	021NA089, 179440033	60211236034	021NA083, 179440027	60211236031	021NA087, 179440028	021NA075, 179440026	60211236029	021NA038, 179440013	021NA078, 179440029
Sample Date		1/13/2016	1/13/2016	1/13/2016	1/13/2016	1/13/2016	1/13/2016	1/13/2016	1/13/2016	1/13/2016	1/13/2016	1/13/2016	1/12/2016	1/13/2016
Sample Method		Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow
Comments					Field Duplicate		Field Duplicate		Field Duplicate			Field Duplicate		
Volatile Organic Compounds														
Acetone	12000	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	2.6 J (1.9)	9.5 J (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	2.5 (1.9)
Benzene	5	U (0.060)	U (0.060)	U (0.060)	U (0.060)	0.20 J (0.060)	0.21 J (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)
Bromodichloromethane	80	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)
Bromoform	80	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	1.7 (0.070)
Bromomethane	7	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	1.3 J (0.16)
2-Butanone	4900	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)
Carbon Disulfide	720	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
Carbon Tetrachloride	5	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
Chlorobenzene	100	U (0.21)	1.2 (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)
Chloroethane	12000	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroform	80	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)
Chloromethane	190	U (0.080)	U (0.080)	1.3 (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)
Dibromochloromethane	80	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	0.33 J (0.21)
1,1-Dichloroethane	2.4	U (0.050)	U (0.050)	0.23 J (0.050)	0.23 J (0.050)	3.1 (0.050)	3.3 (0.050)	0.55 J (0.050)	1.9 J (0.050)	0.24 J (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)
1,2-Dichloroethane	5	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	0.62 J (0.12)	U (0.12)
1,1-Dichloroethene	7	U (0.20)	U (0.20)	1.2 (0.20)	0.97 J (0.20)	5.6 (0.20)	5.6 (0.20)	0.86 J (0.20)	2.0 J (0.20)	U (0.20)	0.29 J (0.20)	0.23 J (0.20)	U (0.20)	2.3 (0.20)
cis-1,2-Dichloroethene	70	8.9 (0.080)	13.0 (0.080)	35.3 (0.080)	34.1 (0.080)	44.4 (0.080)	45.5 (0.080)	100 J (0.080)	199 J (0.080)	70.5 (0.080)	26.7 (0.080)	26.1 (0.080)	10 (0.080)	67.0 (0.080)
trans-1,2-Dichloroethene	100	U (0.20)	U (0.20)	0.35 J (0.20)	0.32 J (0.20)	0.40 J (0.20)	0.46 J (0.20)	1.4 J (0.20)	2.0 J (0.20)	9.8 (0.20)	U (0.20)	U (0.20)	U (0.20)	1.0 (0.20)
Ethyl Benzene	700	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	0.27 J (0.18)	0.40 J (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
2-Hexanone	34	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)
4-Methyl-2-pentanone	1000	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)
Methylene Chloride	5	U (0.15)	U (0.15)	0.75 J (0.15)	0.60 J (0.15)	0.30 J (0.15)	0.29 J (0.15)	1.9 J (0.15)	6.9 J (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	0.40 J (0.15)
1,1,2,2-Tetrachloroethane	0.066	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	0.53 J (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Tetrachloroethene	5	U (0.10)	U (0.10)	0.19 J (0.10)	0.22 J (0.10)	1.1 (0.10)	1.2 (0.10)	1.1 (0.10)	1.4 (0.10)	0.29 J (0.10)	U (0.10)	U (0.10)	18.6 (0.10)	U (0.10)
Toluene	1000	U (0.17)	U (0.17)	U (0.17)	U (0.17)	0.21 J (0.17)	0.23 J (0.17)	3.1 J (0.17)	6.4 J (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)
1,1,1-Trichloroethane	200	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)
1,1,2-Trichloroethane	5	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
Trichloroethene	5	19.9 (0.17)	44.2 (0.17)	92.4 (0.17)	91.3 (0.17)	761 (3.4)	735 (3.4)	605 J (1.7)	2100 J (8.5)	465 (1.7)	47.6 (0.17)	51.6 (0.17)	4.3 (0.17)	797 (3.4)
Vinyl Chloride	2	U (0.13)	0.23 J (0.13)	1.1 (0.13)	1.1 (0.13)	1.6 (0.13)	1.7 (0.13)	13.1 J (0.13)	65.3 J (0.13)	U (0.13)	0.17 J (0.13)	U (0.13)	U (0.13)	4.9 (0.13)
Metals														
Iron	NE	U (50.0)	U (50.0)	U (50.0)	NM	U (50.0)	NM	U (50.0)	NM	U (50.0)	U (50.0)	NM	145 (50.0)	68.3 (50.0)
Manganese	NE	11.4 (5.0)	72.0 (5.0)	343 (5.0)	NM	385 (5.0)	NM	13.0 J (5.0)	NM	11.5 (5.0)	5.4 (5.0)	NM	11.6 (5.0)	U (5.0)
Monitored Natural Attenuation Parameters														
Acetic acid	NE	U (5000)	U (5000)	U (5000)	NM	U (5000)	NM	U (5000)	NM	U (5000)	U (5000)	NM	U (5000)	U (5000)
Acetylene	NE	U (0.50)	U (0.50)	U (0.50)	NM	U (0.50)	NM	U (0.50)	NM	U (0.50)	U (0.50)	NM	U (0.50)	U (0.50)
Total Alkalinity	NE	62600 (20000)	U (20000)	103000 (20000)	NM	78800 (20000)	NM	83900 J (20000)	NM	67200 (20000)	70800 (20000)	NM	38500 (20000)	181000 (20000)
Ammonia	NE	U (100)	250 (100)	U (100)	NM	U (100)	NM	U (100)	NM	U (100)	U (100)	NM	U (100)	230 (100)
Bicarbonate Alkalinity	NE	62600 (20000)	U (20000)	103000 (20000)	NM	78800 (20000)	NM	83900 J (20000)	NM	67200 (20000)	70800 (20000)	NM	38500 (20000)	U (20000)
Carbon Dioxide	NE	180000 (20000)	U (20000)	253000 (20000)	NM	125000 (20000)	NM	227000 J (20000)	NM	240000 (20000)	221000 (20000)	NM	143000 (20000)	29300 (20000)
Organic Carbon (total)	NE	U (1000)	U (1000)	2900 (1000)	NM	810 J (1000)	NM	2000 J (1000)	NM	550 J (1000)	U (1000)	NM	710 J (1000)	870 J (1000)
Carbonate Alkalinity	NE	U (20000)	U (20000)	U (20000)	NM	U (20000)	NM	U (20000)	NM	U (20000)	U (20000)	NM	U (20000)	66500 (20000)
Chloride	NE	91900 (10000)	240000 (20000)	49300 (5000)	NM	116000 (10000)	NM	6400 J (1000)	NM	10600 (1000)	19100 (2000)	NM	7200 (1000)	25600 (2000)
Iron, Ferric	NE	U (200)	U (200)	U (200)	NM	U (200)	NM	U (200)	NM	U (200)	U (200)	NM	U (200)	U (200)
Lactic Acid	NE	U (10000)	U (10000)	U (10000)	NM	U (10000)	NM	U (10000)	NM	U (10000)	U (10000)	NM	U (10000)	U (10000)
Nitrogen	NE	770 (100)	2300 (100)	6300 (200)	NM	4700 (100)	NM	77 J (100)	NM	84 J (100)	140 (100)	NM	480 (100)	350 (100)
Nitrogen, Nitrate (As N)	NE	770 (100)	2300 (100)	6300 (200)	NM	4700 (100)	NM	77 J (100)	NM	84 J (100)	140 (100)	NM	480 (100)	350 (100)
Nitrogen, Nitrite	NE	U (100)	U (100)	U (200)	NM	U (100)	NM	U (100)	NM	U (100)	U (100)	NM	U (100)	U (100)
pH [pH UNITS]	NE	6.0 (0.10)	5.3 (0.10)	6.1 (0.10)	NM	6.4 (0.10)	NM	6.0 J (0.10)	NM	5.9 (0.10)	6.0 (0.10)	NM	5.8 (0.10)	11.6 (0.10)
Phosphates (total)	NE	120 (30)	91 (30)	160 (30)	NM	110 (30)	NM	170 J (30)	NM	130 (30)	140 (30)	NM	55 (30)	43 (30)
Propionic Acid	NE	U (5000)	U (5000)	U (5000)	NM	U (5000)	NM	U (5000)	NM	U (5000)	U (5000)	NM	U (5000)	U (5000)
Sulfide (total)	NE	U (50)	U (50)	U (50)	NM	U (50)	NM	U (250)	NM	U (50)	U (250)	NM	U (50)	U (50)
Sulfate	NE	12600 (2000)	9000 (1000)	32400 (5000)	NM	33100 (2000)	NM	71900 J (10000)	NM	120000 (20000)	5900 (1000)	NM	11500 (1000)	42800 (5000)
Gasses														
Methane	NE	U (0.50)	3.3 (0.50)	20 (0.50)	NM	8.6 (0.50)	NM	13 (0.50)	NM	25 (0.50)	2.5 (0.50)	NM	U (0.50)	4.7 (0.50)
Ethane	NE	U (0.10)	U (0.10)	U (0.10)	NM	U (0.10)	NM	0.18 (0.10)	NM	0.44 (0.10)	U (0.10)	NM	U (0.10)	0.54 (0.10)
Ethene	NE	U (0.10)	U (0.10)	0.16 (0.10)	NM	U (0.10)	NM	0.62 (0.10)	NM	U (0.10)	U (0.10)	NM	U (0.10)	0.15 (0.10)
Hydrogen (H2) [nM][4]	NE	1.6 (0.60)	1.5 (0.60)	1.9 (0.60)	NM	1.4 (0.60)	NM	3.1 (0.60)	NM	1.2 (0.60)	2.2 (1.2)	NM	2.1 (1.2)	170 (4.8)
Molecular Analyses														
BAV1 Vinyl Chloride Reductase [cells/mL]	NE	U (0.5)	U (0.5)	U (0.5)	NM	U (0.5)	NM	U (0.5)	NM	U (0.5)	U (0.5)	NM	U (0.5)	U (0.5)
Dehalococcoides (DHC) [cells/mL]	NE	2.9 (0.5)	0.3 J (0.5)	0.3 J (0.5)	NM	0.4 J (0.5)	NM	5.5 J (0.5)	NM	U (0.5)	0.2 J (0.5)	NM	U (0.5)	U (0.5)
tceA Reductase [cells/mL]	NE	U (0.5)	U (0.5)	U (0.5)	NM	U (0.5)	NM	U (0.5)	NM	U (0.5)	U (0.5)	NM	U (0.5)	U (0.5)

Notes:

1 All concentrations are presented in ug/L except where noted.
2 Only compounds with at least one detection are shown, with the exception of Monitored Natural Attenuation Parameters, for which all compounds are shown.
3 Concentrations that exceed the Remedial Action Levels per ADEQ RADD Issued Dec 2013 are double underlined.
4 Concentration presented in nM = nanomolar. Sampling Method - Bubble Strip.
U = Not detected
J = Estimated concentration
d = The analyte concentration was determined from a dilution.
( ) = Method detection limit for VOCs; reporting limit for all other parameters
* = Sampled on different day than other parameters with different method
RADD = Remedial action decision document
ADEQ = Arkansas Department of Environmental Quality
VOC = Volatile organic compounds
µg/L = Micrograms per Liter
mL = Milliliters
NE = Not established
NM = Not measured

Onsite Wells
Offsite Wells
Plume Boundary Wells

TABLE 6
SUMMARY OF MONITORING WELL GROUNDWATER SAMPLE ANALYTICAL RESULTS
(FIRST QUARTER 2016)
Whirlpool Facility - Fort Smith, Arkansas

Location	Remedial Action Levels per ADEQ RADD Issued Dec 2013	ITMW-17	ITMW-18	ITMW-19	ITMW-21	IW-80	MW-25	MW-32R	MW-33R	MW-34R	MW-35R	MW-38	MW-65	MW-83
Field Sample ID		ITMW-17-201601	ITMW-18-201601	ITMW-19-201601	ITMW-21-201601	IW-80-201601	MW-25-201601	MW-32R-201601	MW-33R-201601	MW-34R-201601	MW-35R-201601	MW-38-201601	MW-65-201601	MW-83-201601
Lac Sample ID(s)		021NA077, 179440041	021NA073, 179440034	021NA071, 179440035	021NA092, 179440030	021NA03, 179040003	021NA076, 179440039	021NA057, 179440003	021NA09, 179040008	021NA017, 179430001	021NA013, 179430002	021NA084, 179440024	021NA014, 179430004	021NA04, 179040004
Sample Date		1/13/2016	1/13/2016	1/13/2016	1/13/2016	1/7/2016	1/13/2016	1/12/2016	1/8/2016	1/11/2016	1/11/2016	1/13/2016	1/11/2016	1/7/2016
Sample Method		Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow
Comments														
Volatile Organic Compounds														
Acetone	12000	U (1.9)	17.2 (1.9)	39.2 (1.9)	U (1.9)	18.3 (1.9)	134 (1.9)	49.9 (1.9)	U (1.9)	22.1 (1.9)	38.8 (1.9)	U (1.9)	59.3 (1.9)	U (1.9)
Benzene	5	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	0.40 J (0.060)	U (0.060)	U (0.060)	0.12 J (0.060)	U (0.060)	0.28 J (0.060)	0.34 J (0.060)	U (0.060)
Bromodichloromethane	80	U (0.19)	U (0.19)	0.25 J (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)
Bromoform	80	U (0.070)	0.75 J (0.070)	3.5 (0.070)	U (0.070)	0.64 J (0.070)	0.44 J (0.070)	U (0.070)	0.31 J (0.070)	1.2 (0.070)	1.5 (0.070)	U (0.070)	U (0.070)	4.4 (0.070)
Bromomethane	7	U (0.16)	14.4 (0.16)	2.8 J (0.16)	U (0.16)	3.7 J (0.16)	7.2 (0.16)	14.7 (0.16)	1.1 J (0.16)	1.5 J (0.16)	31.5 (0.16)	U (0.16)	1.2 J (0.16)	17.4 (0.16)
2-Butanone	4900	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	13.5 (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	5.5 J (0.59)	U (0.59)
Carbon Disulfide	720	U (0.12)	U (0.12)	0.90 J (0.12)	U (0.12)	U (0.12)	1.2 J (0.12)	0.59 J (0.12)	U (0.12)	4.7 J (0.12)	U (0.12)	U (0.12)	0.13 J (0.12)	0.16 (0.12)
Carbon Tetrachloride	5	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
Chlorobenzene	100	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)
Chloroethane	12000	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	1.1 (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroform	80	U (0.14)	U (0.14)	1.7 (0.14)	U (0.14)	U (0.14)	20.7 (0.14)	U (0.14)	0.30 J (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)
Chloromethane	190	U (0.080)	7.0 (0.080)	3.0 B (0.080)	U (0.080)	1.8 B (0.080)	23.2 (0.080)	11.6 (0.080)	0.37 J (0.080)	1.6 (0.080)	33.9 (0.080)	U (0.080)	U (0.080)	4.2 (0.080)
Dibromochloromethane	80	U (0.21)	U (0.21)	0.28 J (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	0.25 J (0.21)
1,1-Dichloroethane	2.4	U (0.050)	0.19 J (0.050)	U (0.050)	U (0.050)	U (0.050)	4.5 (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)
1,2-Dichloroethane	5	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	0.85 J (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
1,1-Dichloroethene	7	2.3 (0.20)	0.22 J (0.20)	U (0.20)	U (0.20)	U (0.20)	5.7 (0.20)	U (0.20)	0.54 J (0.20)	U (0.20)	U (0.20)	15.1 (0.20)	U (0.20)	U (0.20)
cis-1,2-Dichloroethene	70	44.7 (0.080)	4.6 (0.080)	1.2 (0.080)	0.27 J (0.080)	U (0.080)	608 J (80.0)	0.45 J (0.080)	7.6 (0.080)	0.30 J (0.080)	0.34 J (0.080)	1180 (4.0)	0.32 J (0.080)	U (0.080)
trans-1,2-Dichloroethene	100	3.0 (0.20)	0.52 J (0.20)	U (0.20)	U (0.20)	U (0.20)	98.5 (0.20)	U (0.20)	0.86 J (0.20)	U (0.20)	U (0.20)	21.6 (0.20)	U (0.20)	U (0.20)
Ethyl Benzene	700	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
2-Hexanone	34	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)
4-Methyl-2-pentanone	1000	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	0.96 J (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)
Methylene Chloride	5	U (0.15)	U (0.15)	1.2 (0.15)	U (0.15)	U (0.15)	12.9 (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
1,1,2,2-Tetrachloroethane	0.066	U (0.15)	U (0.15)	0.31 J (0.15)	U (0.15)	U (0.15)	135 (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Tetrachloroethene	5	0.58 J (0.10)	U (0.10)	0.46 J (0.10)	U (0.10)	U (0.10)	18.8 (0.10)	U (0.10)	0.13 J (0.10)	U (0.10)	U (0.10)	0.82 J (0.10)	U (0.10)	U (0.10)
Toluene	1000	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	1.4 (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	0.26 J (0.17)	U (0.17)	U (0.17)
1,1,1-Trichloroethane	200	U (0.11)	U (0.11)	0.13 J (0.11)	U (0.11)	U (0.11)	22.9 (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)
1,1,2-Trichloroethane	5	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	2.0 (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
Trichloroethene	5	2600 (8.5)	48.8 (0.17)	336 (0.85)	9.8 (0.17)	4.2 (0.17)	43400 (170)	13.1 (0.17)	724 (1.7)	2.6 (0.17)	13.2 (0.17)	3680 (8.5)	14.5 (0.17)	1.1 (0.17)
Vinyl Chloride	2	2.2 (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	55.0 (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	84.3 (0.13)	U (0.13)	U (0.13)
Metals														
Iron	NE	43.4 J (50.0)	U (50.0)	U (50.0)	U (50.0)	454 (50.0)	243 (50.0)	4280 (50.0)	508 (50.0)	8640 (50.0)	24.7 J (50.0)	2600 (50.0)	428 (50.0)	U (200)
Manganese	NE	80.9 (5.0)	U (5.0)	3.0 J (5.0)	525 (5.0)	148 (5.0)	338 (5.0)	2130 (5.0)	1990 (5.0)	6130 (5.0)	72.0 (5.0)	2520 (5.0)	37.1 (5.0)	4.0 J (5.0)
Monitored Natural Attenuation Parameters														
Acetic acid	NE	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)
Acetylene	NE	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	2.4 (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)
Total Alkalinity	NE	U (20000)	62400 (20000)	276000 (20000)	U (20000)	270000 (20000)	148000 (20000)	U (20000)	33300 (20000)	21900 (20000)	175000 (20000)	241000 (20000)	1240000 (40000)	190000 (20000)
Ammonia	NE	U (100)	190 (100)	240 (100)	U (100)	710 (100)	190 M1 (100)	U (100)	U (100)	U (100)	670 (100)	U (100)	2200 (200)	450 (100)
Bicarbonate Alkalinity	NE	U (20000)	62400 (20000)	276000 (20000)	U (20000)	270000 (20000)	148000 (20000)	U (20000)	33300 (20000)	21900 (20000)	175000 (20000)	241000 (20000)	U (40000)	190000 (20000)
Carbon Dioxide	NE	U (20000)	174000 (20000)	290000 (20000)	U (20000)	562000 (20000)	566000 (20000)	U (20000)	403000 (20000)	149000 (20000)	445000 (20000)	251000 (20000)	385000 (20000)	274000 (20000)
Organic Carbon (total)	NE	7100 (1000)	U (1000)	U (1000)	U (1000)	1100 (1000)	5300 (1000)	U (1000)	U (1000)	U (1000)	590 J (1000)	1700 (1000)	5000 (1000)	660 J (1000)
Carbonate Alkalinity	NE	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	876000 (40000)	U (20000)
Chloride	NE	223000 (20000)	94000 (10000)	283000 (20000)	651000 (50000)	153000 (20000)	426000 (50000)	232000 (20000)	189000 (20000)	174000 (20000)	243000 (20000)	25600 (5000)	220000 (20000)	226000 (20000)
Iron, Ferric	NE	U (200)	U (200)	U (200)	U (200)	450 (200)	230 (200)	4200 (200)	510 (200)	6200 (200)	U (200)	930 (200)	430 (200)	NM
Lactic Acid	NE	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)
Nitrogen	NE	180 (100)	2300 (100)	3100 (100)	100 (100)	2200 (100)	330 (100)	290 (100)	2400 M1 (100)	71 J (100)	2900 (100)	66 J (100)	2500 (100)	2100 (100)
Nitrogen, Nitrate (As N)	NE	180 (100)	2300 (100)	3100 (100)	100 (100)	2200 (100)	330 (100)	290 (100)	2400 M1 (100)	71 J (100)	2900 (100)	66 J (100)	2400 (100)	2100 (100)
Nitrogen, Nitrite	NE	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)	120 (100)	U (100)
pH [pH UNITS]	NE	5.4 (0.10)	6.0 (0.10)	7.1 (0.10)	5.6 (0.10)	6.2 (0.10)	5.8 (0.10)	4.9 (0.10)	5.2 (0.10)	5.5 (0.10)	6.1 (0.10)	7.1 (0.10)	12.1 (0.10)	6.6 (0.10)
Phosphates (total)	NE	62 (30)	100 (30)	730 (30)	55 (30)	640 (30)	520 (30)	69 (30)	66 (30)	190 M1 (30)	1700 (30)	240 (30)	2400 (150)	620 (30)
Propionic Acid	NE	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)
Sulfide (total)	NE	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)
Sulfate	NE	24600 (2000)	1860000 (200000)	2590000 (200000)	4000 (1000)	1820000 (200000)	1710000 (100000)	339000 (20000)	121000 (20000)	196000 (20000)	5700000 (500000)	48400 (5000)	2770000 (200000)	1900000 (100000)
Gasses														
Methane	NE	4.0 (0.50)	1.5 (0.50)	5.6 (0.50)	U (0.50)	1.4 (0.50)	64 (0.50)	170 (0.50)	40 (0.50)	140 (0.50)	14 (0.50)	27 (0.50)	13 (0.50)	0.80 (0.50)
Ethane	NE	0.14 (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	8.6 (0.10)	0.13 (0.10)	0.31 (0.10)	0.42 (0.10)	0.16 (0.10)	1.1 (0.10)	0.27 (0.10)	U (0.10)
Ethene	NE	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	0.64 (0.10)	0.56 (0.10)	0.23 (0.10)	0.53 (0.10)	U (0.10)	3.2 (0.10)	U (0.10)	U (0.10)
Hydrogen (H2) [nM][4]	NE	4.0 (0.60)	13 (2.4)	5400 (300)	2.8 (0.60)	7.7 (0.60)	510 (60)	350 (6.0)	23 (0.60)	90 (2.4)	2000 (60)	3.2 (1.2)	220 (12)	NM
Molecular Analyses														
BAV1 Vinyl Chloride Reductase [cells/mL]	NE	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	1390 (0.5)	U (0.5)	U (0.5)
Dehalococcoides (DHC) [cells/mL]	NE	U (0.5)	U (0.5)	U (0.5)	1.5 (0.5)	U (0.5)	U (0.5)	U (0.5)	2.5 (0.5)	U (0.5)	U (0.5)	8240 (0.5)	U (0.5)	U (0.5)
tceA Reductase [cells/mL]	NE	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	0.1 J (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)

Notes:

1 All concentrations are presented in ug/L except where noted.
2 Only compounds with at least one detection are shown, with the exception of Monitored Natural Attenuation Parameters, for which all compounds are shown.
3 Concentrations that exceed the Remedial Action Levels per ADEQ RADD Issued Dec 2013 are double underlined.
4 Concentration presented in nM = nanomolar. Sampling Method - Bubble Strip.
U = Not detected
J = Estimated concentration
d = The analyte concentration was determined from a dilution.
( ) = Method detection limit for VOCs; reporting limit for all other parameters
* = Sampled on different day than other parameters with different method
RADD = Remedial action decision document
ADEQ = Arkansas Department of Environmental Quality
VOC = Volatile organic compounds
µg/L = Micrograms per Liter
mL = Milliliters
NE = Not established
NM = Not measured

Onsite Wells
Offsite Wells
Plume Boundary Wells

TABLE 6
SUMMARY OF MONITORING WELL GROUNDWATER SAMPLE ANALYTICAL RESULTS
(FIRST QUARTER 2016)
Whirlpool Facility - Fort Smith, Arkansas

Location	Remedial Action Levels per ADEQ RADD Issued Dec 2013	MW-84	MW-85	MW-86	MW-87	MW-87	MW-88	MW-89	MW-90	MW-91	MW-91	MW-92	MW-93	MW-94
Field Sample ID		MW-84-201601	MW-85-201601	MW-86-201601	MW-87-201601	DUP-09-201601	MW-88-201601	MW-89-201601	MW-90-201601	MW-91-201601	DUP-08-201601	MW-92-201601	MW-93-201601	MW-94-201601
Lac Sample ID(s)		021NA05, 179040005	021NA067, 179440038	021NA085, 179440040	021NA066, 179440018	60211236028	021NA034, 179440009	021NA062, 179440007	021NA039, 179440014	021NA088, 179440037	60211236040	021NA063, 179440025	021NA072, 179440019	021NA065, 179440020
Sample Date		1/7/2016	1/13/2016	1/13/2016	1/13/2016	1/13/2016	1/12/2016	1/12/2016	1/12/2016	1/13/2016	1/13/2016	1/13/2016	1/13/2016	1/13/2016
Sample Method		Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow
Comments						Field Duplicate					Field Duplicate			
Volatile Organic Compounds														
Acetone	12000	U (1.9)	94.2 (1.9)	215 (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	19.1 (1.9)	U (1.9)	29.4 (1.9)
Benzene	5	U (0.060)	0.20 J (0.060)	0.68 J (0.060)	0.17 J (0.060)	0.13 J (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	0.13 J (0.060)	0.12 J (0.060)	U (0.060)
Bromodichloromethane	80	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	0.21 J (0.19)	U (0.19)
Bromoform	80	5.6 (0.070)	10.8 (0.070)	0.62 J (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	1.9 (0.070)	U (0.070)	U (0.070)
Bromomethane	7	3.8 J (0.16)	13.4 (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	1.8 (0.16)	U (0.16)	7.0 (0.16)
2-Butanone	4900	U (0.59)	5.8 J (0.59)	35.8 (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)
Carbon Disulfide	720	U (0.12)	0.50 J (0.12)	8.7 (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
Carbon Tetrachloride	5	U (0.18)	U (0.18)	3.6 (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	0.38 J (0.18)	U (0.18)
Chlorobenzene	100	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)
Chloroethane	12000	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroform	80	U (0.14)	11.2 (0.14)	52.7 (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	4.1 (0.14)	2.2 (0.14)
Chloromethane	190	10.5 (0.080)	20.9 (0.080)	6.1 (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	17.4 (0.080)	U (0.080)	8.2 (0.080)
Dibromochloromethane	80	0.27 J (0.21)	0.59 J (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)
1,1-Dichloroethane	2.4	U (0.050)	0.88 J (0.050)	6.0 (0.050)	2.8 (0.050)	2.8 (0.050)	U (0.050)	U (0.050)	U (0.050)	1.5 (0.050)	1.6 (0.050)	U (0.050)	0.30 J (0.050)	1.2 (0.050)
1,2-Dichloroethane	5	U (0.12)	0.22 J (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	0.14 J (0.12)	U (0.12)
1,1-Dichloroethene	7	U (0.20)	1.0 J (0.20)	23.3 (0.20)	8.2 (0.20)	8.3 (0.20)	U (0.20)	U (0.20)	U (0.20)	4.1 (0.20)	4.2 (0.20)	U (0.20)	25.0 (0.20)	3.5 (0.20)
cis-1,2-Dichloroethene	70	U (0.080)	32.8 (0.080)	610 J (80.0)	61.9 (0.080)	63.2 (0.080)	U (0.080)	0.20 J (0.080)	U (0.080)	36.1 (0.080)	38.6 (0.080)	7.1 (0.080)	103 (0.080)	30.3 (0.080)
trans-1,2-Dichloroethene	100	U (0.20)	5.9 (0.20)	69.5 (0.20)	0.78 J (0.20)	1.1 (0.20)	U (0.20)	U (0.20)	U (0.20)	0.40 J (0.20)	0.48 J (0.20)	1.2 (0.20)	2.1 (0.20)	5.2 (0.20)
Ethyl Benzene	700	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
2-Hexanone	34	U (1.2)	U (1.2)	5.3 J (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)
4-Methyl-2-pentanone	1000	U (0.42)	U (0.42)	2.6 J (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)
Methylene Chloride	5	U (0.15)	12.0 (0.15)	16.4 (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	1.1 (0.15)	U (0.15)	U (0.15)
1,1,2,2-Tetrachloroethane	0.066	U (0.15)	25.0 (0.15)	293 J (150)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	1.1 (0.15)
Tetrachloroethene	5	U (0.10)	5.9 (0.10)	40.3 (0.10)	4.1 (0.10)	4.4 (0.10)	U (0.10)	U (0.10)	U (0.10)	1.6 (0.10)	1.7 (0.10)	0.46 J (0.10)	5.8 (0.10)	0.58 J (0.10)
Toluene	1000	U (0.17)	U (0.17)	3.7 (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	0.27 J (0.17)	U (0.17)
1,1,1-Trichloroethane	200	U (0.11)	63.3 (0.11)	586 J (110)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	1.3 (0.11)	0.47 J (0.11)	U (0.11)
1,1,2-Trichloroethane	5	U (0.20)	1.4 (0.20)	7.4 (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	1.5 (0.20)	0.52 J (0.20)
Trichloroethene	5	U (0.17)	6980 (34.0)	95500 (170)	757 (3.4)	781 (3.4)	0.58 J (0.17)	11.6 (0.17)	0.25 J (0.17)	413 (1.7)	422 (1.7)	1840 (3.4)	21200 (34.0)	936 (3.4)
Vinyl Chloride	2	U (0.13)	0.70 J (0.13)	57.1 (0.13)	0.47 J (0.13)	0.40 J (0.13)	U (0.13)	U (0.13)	U (0.13)	0.24 J (0.13)	0.24 J (0.13)	0.66 J (0.13)	2.6 (0.13)	U (0.13)
Metals														
Iron	NE	63.3 (50.0)	30.7 J (50.0)	888 (50.0)	19.7 J (50.0)	NM	813 (50.0)	92.4 (50.0)	1840 (50.0)	95.6 (50.0)	NM	U (50.0)	U (200)	U (50.0)
Manganese	NE	U (5.0)	13.0 (5.0)	1150 (5.0)	47.4 (5.0)	NM	496 (5.0)	385 (5.0)	248 (5.0)	266 (5.0)	NM	147 (5.0)	164 (5.0)	60.0 (5.0)
Monitored Natural Attenuation Parameters														
Acetic acid	NE	U (5000)	U (5000)	U (5000)	U (5000)	NM	U (5000)	U (5000)	U (5000)	U (5000)	NM	U (5000)	U (5000)	U (5000)
Acetylene	NE	U (0.50)	0.71 (0.50)	15 (0.50)	U (0.50)	NM	U (0.50)	U (0.50)	U (0.50)	U (0.50)	NM	U (0.50)	U (0.50)	U (0.50)
Total Alkalinity	NE	232000 (20000)	59600 (20000)	278000 (20000)	54900 (20000)	NM	132000 (20000)	30600 (20000)	171000 (20000)	60600 (20000)	NM	93900 (20000)	U (20000)	24100 (20000)
Ammonia	NE	470 (100)	74 (100)	1100 (100)	U (100)	NM	U (100)	U (100)	U (100)	U (100)	NM	120 (100)	U (100)	U (100)
Bicarbonate Alkalinity	NE	232000 (20000)	59600 (20000)	278000 (20000)	54900 (20000)	NM	132000 (20000)	30600 (20000)	171000 (20000)	60600 (20000)	NM	93900 (20000)	U (20000)	24100 (20000)
Carbon Dioxide	NE	244000 (20000)	466000 (20000)	827000 (20000)	267000 (20000)	NM	341000 (20000)	282000 (20000)	381000 (20000)	145000 (20000)	NM	1320000 (20000)	U (20000)	355000 (20000)
Organic Carbon (total)	NE	750 J (1000)	1100 (1000)	7200 (1000)	530 J (1000)	NM	1900 (1000)	720 J (1000)	4100 (1000)	U (1000)	NM	U (1000)	U (1000)	600 J (1000)
Carbonate Alkalinity	NE	U (20000)	U (20000)	U (20000)	U (20000)	NM	U (20000)	U (20000)	U (20000)	U (20000)	NM	U (20000)	U (20000)	U (20000)
Chloride	NE	281000 (20000)	389000 (25000)	473000 (50000)	61500 (5000)	NM	35700 (5000)	39900 (5000)	94900 (10000)	43300 (5000)	NM	387000 (50000)	254000 (20000)	127000 (10000)
Iron, Ferric	NE	U (200)	U (200)	890 (200)	U (200)	NM	U (200)	U (200)	980 (200)	U (200)	NM	U (200)	NM	U (200)
Lactic Acid	NE	U (10000)	U (10000)	U (10000)	U (10000)	NM	U (10000)	U (10000)	U (10000)	U (10000)	NM	U (10000)	U (10000)	U (10000)
Nitrogen	NE	3300 (100)	620 (100)	2100 (100)	3200 (100)	NM	U (100)	86500 (5000)	U (100)	2900 (100)	NM	1500 (100)	2400 (100)	2100 (100)
Nitrogen, Nitrate (As N)	NE	3300 (100)	620 (100)	2000 (100)	3200 (100)	NM	U (100)	86500 (5000)	U (100)	2900 (100)	NM	1500 (100)	2400 (100)	2100 (100)
Nitrogen, Nitrite	NE	U (100)	U (100)	110 (100)	U (100)	NM	U (100)	U (5000)	U (100)	U (100)	NM	U (100)	U (100)	U (100)
pH [pH UNITS]	NE	7.1 (0.10)	5.5 (0.10)	6.0 (0.10)	5.7 (0.10)	NM	6.1 (0.10)	5.4 (0.10)	6.2 (0.10)	6.1 (0.10)	NM	5.2 (0.10)	5.2 (0.10)	5.2 (0.10)
Phosphates (total)	NE	580 (30)	320 (30)	140 (30)	88 (30)	NM	55 (30)	69 (30)	110 (30)	62 (30)	NM	180 (30)	170 (30)	170 (30)
Propionic Acid	NE	U (5000)	U (5000)	U (5000)	U (5000)	NM	U (5000)	U (5000)	U (5000)	U (5000)	NM	U (5000)	U (5000)	U (5000)
Sulfide (total)	NE	18 J (50)	U (50)	U (50)	U (50)	NM	U (50)	U (50)	U (50)	U (50)	NM	U (50)	U (50)	U (50)
Sulfate	NE	3190000 (200000)	1580000 (200000)	3070000 (200000)	12100 (1000)	NM	5200 (1000)	5700 (1000)	34400 (5000)	11300 (1000)	NM	566000 (50000)	2500 (1000)	559000 (50000)
Gasses														
Methane	NE	3.8 (0.50)	19 (0.50)	59 (0.50)	1.0 (0.50)	NM	4.1 (0.50)	10 (0.50)	3.5 (0.50)	27 (0.50)	NM	6.7 (0.50)	3.4 (0.50)	3.1 (0.50)
Ethane	NE	U (0.10)	2.1 (0.10)	6.1 (0.10)	U (0.10)	NM	U (0.10)	U (0.10)	U (0.10)	0.15 (0.10)	NM	0.32 (0.10)	0.32 (0.10)	0.28 (0.10)
Ethene	NE	U (0.10)	0.37 (0.10)	3.3 (0.10)	U (0.10)	NM	U (0.10)	U (0.10)	0.53 (0.10)	0.15 (0.10)	NM	0.68 (0.10)	U (0.10)	0.31 (0.10)
Hydrogen (H2) [nM][4]	NE	NM	600 (60)	1100 (60)	1.1 (0.60)	NM	1.8 (1.2)	1.8 (1.2)	2.0 (1.2)	2.1 (1.2)	NM	16 (0.60)	1.3 (0.60)	24 (0.60)
Molecular Analyses														
BAV1 Vinyl Chloride Reductase [cells/mL]	NE	U (0.5)	U (0.5)	1.8 (0.5)	U (0.5)	NM	U (0.5)	U (0.5)	U (0.5)	U (0.5)	NM	U (0.5)	U (0.5)	U (0.5)
Dehalococcoides (DHC) [cells/mL]	NE	U (0.5)	U (0.5)	11.1 (0.5)	U (0.5)	NM	46.7 (0.5)	2.7 (0.5)	1130 (0.5)	9.1 (0.5)	NM	U (0.5)	U (0.5)	U (0.5)
tceA Reductase [cells/mL]	NE	U (0.5)	U (0.5)	U (0.5)	U (0.5)	NM	U (0.5)	U (0.5)	U (0.5)	U (0.5)	NM	U (0.5)	U (0.5)	U (0.5)

Notes:

1 All concentrations are presented in ug/L except where noted.
2 Only compounds with at least one detection are shown, with the exception of Monitored Natural Attenuation Parameters, for which all compounds are shown.
3 Concentrations that exceed the Remedial Action Levels per ADEQ RADD Issued Dec 2013 are double underlined.
4 Concentration presented in nM = nanomolar. Sampling Method - Bubble Strip.

U = Not detected
J = Estimated concentration
d = The analyte concentration was determined from a dilution.
( ) = Method detection limit for VOCs; reporting limit for all other parameters
* = Sampled on different day than other parameters with different method
RADD = Remedial action decision document
ADEQ = Arkansas Department of Environmental Quality
VOC = Volatile organic compounds
µg/L = Micrograms per Liter
mL = Milliliters
NE = Not established
NM = Not measured

Onsite Wells
Offsite Wells
Plume Boundary Wells

TABLE 6
SUMMARY OF MONITORING WELL GROUNDWATER SAMPLE ANALYTICAL RESULTS
(FIRST QUARTER 2016)
Whirlpool Facility - Fort Smith, Arkansas

Location	Remedial Action Levels per ADEQ RADD Issued Dec 2013	MW-95	MW-172	ITMW-2	ITMW-4	ITMW-6	ITMW-16	ITMW-20	IW-72	MW-22	MW-26	MW-27	MW-28	MW-29
Field Sample ID		MW-95-201601	MW-172-201601	ITMW-2-201601	ITMW-4-201601	ITMW-6-201601	ITMW-16-201601	ITMW-20-201601	IW-72-201601	MW-22-201601	MW-26-201601	MW-27-201601	MW-28-201601	MW-29-201601
Lac Sample ID(s)		021NA064, 179440021	021NA070, 179440042	021NA040, 179440015	021NA051, 179440016	021NA055, 179430035	021NA068, 179440043	021NA035, 179440010	021NA042, 179430025	021NA037, 179440012	021NA079, 179440022	021NA059, 179440001	021NA052, 179440017	021NA080, 179440044
Sample Date		1/13/2016	1/13/2016	1/12/2016	1/12/2016	1/12/2016	1/13/2016	1/12/2016	1/12/2016	1/12/2016	1/13/2016	1/12/2016	1/12/2016	1/13/2016
Sample Method		Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow
Comments														
Volatile Organic Compounds														
Acetone	12000	U (1.9)	5.6 J (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	2.0 J (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)
Benzene	5	0.12 J (0.060)	0.13 J (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	0.14 J (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)
Bromodichloromethane	80	0.27 J (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)
Bromoform	80	U (0.070)	0.39 J (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	1.4 (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)
Bromomethane	7	U (0.16)	1.8 (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)
2-Butanone	4900	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)
Carbon Disulfide	720	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
Carbon Tetrachloride	5	0.27 J (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
Chlorobenzene	100	U (0.21)	U (0.21)	U (0.21)	0.81 J (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	0.95 J (0.21)
Chloroethane	12000	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroform	80	5.3 (0.14)	2.0 (0.14)	U (0.14)	0.20 J (0.14)	U (0.14)	U (0.14)	U (0.14)	0.19 J (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)
Chloromethane	190	U (0.080)	6.6 (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	0.13 (0.080)	U (0.080)	0.21 J (0.080)
Dibromochloromethane	80	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)
1,1-Dichloroethane	2.4	0.44 J (0.050)	U (0.050)	U (0.050)	0.20 J (0.050)	5.2 (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)
1,2-Dichloroethane	5	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
1,1-Dichloroethene	7	40.2 (0.20)	U (0.20)	U (0.20)	U (0.20)	0.60 J (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
cis-1,2-Dichloroethene	70	161 (0.080)	13.5 (0.080)	0.42 J (0.080)	2.5 (0.080)	6.2 (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	0.42 J (0.080)	U (0.080)	U (0.080)
trans-1,2-Dichloroethene	100	1.5 (0.20)	2.6 (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
Ethyl Benzene	700	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
2-Hexanone	34	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)
4-Methyl-2-pentanone	1000	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)
Methylene Chloride	5	U (0.15)	U (0.15)	U (0.15)	3.3 (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
1,1,2,2-Tetrachloroethane	0.066	U (0.15)	2.6 (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Tetrachloroethene	5	7.2 (0.10)	1.6 (0.10)	0.28 J (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Toluene	1000	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)
1,1,1-Trichloroethane	200	0.26 J (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)
1,1,2-Trichloroethane	5	2.2 (0.20)	0.57 J (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
Trichloroethene	5	24700 (34.0)	3190 (4.2)	0.21 J (0.17)	1.5 (0.17)	4.2 (0.17)	U (0.17)	U (0.17)	1.4 (0.17)	U (0.17)	U (0.17)	0.61 J (0.17)	U (0.17)	U (0.17)
Vinyl Chloride	2	31.0 (0.13)	U (0.13)	U (0.13)	U (0.13)	0.32 J (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)
Metals														
Iron	NE	U (200)	75.6 (50.0)	733 (50.0)	2350 (50.0)	399 (50.0)	194 (50.0)	31.4 J (50.0)	300 (50.0)	U (200)	U (50.0)	992 (50.0)	203 (50.0)	16.3 J (50.0)
Manganese	NE	285 (5.0)	9.1 (5.0)	17.4 (5.0)	3420 (5.0)	259 (5.0)	5.0 (5.0)	8.9 (5.0)	2590 (5.0)	98.5 (5.0)	778 (5.0)	21.1 (5.0)	30.0 (5.0)	237 (5.0)
Monitored Natural Attenuation Parameters														
Acetic acid	NE	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)
Acetylene	NE	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)
Total Alkalinity	NE	25300 (20000)	45700 (20000)	60700 (20000)	81100 (20000)	126000 (20000)	49600 (20000)	51900 (20000)	117000 (20000)	51600 (20000)	27200 (20000)	39000 (20000)	89100 (20000)	U (20000)
Ammonia	NE	U (100)	U (100)	U (100)	140 (100)	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)
Bicarbonate Alkalinity	NE	25300 (20000)	45700 (20000)	60700 (20000)	81100 (20000)	126000 (20000)	49600 (20000)	51900 (20000)	117000 (20000)	51600 (20000)	27200 (20000)	39000 (20000)	89100 (20000)	U (20000)
Carbon Dioxide	NE	281000 (20000)	555000 (20000)	154000 (20000)	141000 (20000)	387000 (20000)	62500 (20000)	235000 (20000)	384000 (20000)	517000 (20000)	284000 (20000)	140000 (20000)	217000 (20000)	U (20000)
Organic Carbon (total)	NE	U (1000)	U (1000)	U (1000)	7800 (1000)	520 J (1000)	2000 (1000)	U (1000)	U (1000)	670 J (1000)	U (1000)	870 J (1000)	650 J (1000)	U (1000)
Carbonate Alkalinity	NE	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)
Chloride	NE	312000 (20000)	247000 (25000)	44600 (10000)	7200 (1000)	114000 (10000)	680 J (1000)	98700 (5000)	220000 (20000)	12000 (1000)	277000 (20000)	29000 (5000)	16900 (2000)	98000 (10000)
Iron, Ferric	NE	NM	U (200)	290 (200)	2200 (200)	390 (200)	U (200)	U (200)	300 (200)	NM	U (200)	810 (200)	200 (200)	U (200)
Lactic Acid	NE	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)
Nitrogen	NE	1200 (100)	1100 (100)	870 (100)	U (100)	22600 (1000)	1500 (100)	690 (100)	1100 (100)	U (100)	2400 (100)	300 (100)	U (100)	1700 (100)
Nitrogen, Nitrate (As N)	NE	1200 (100)	1100 (100)	870 (100)	U (100)	22600 (1000)	1500 (100)	690 (100)	1100 (100)	U (100)	2400 (100)	300 (100)	U (100)	1700 (100)
Nitrogen, Nitrite	NE	U (100)	U (100)	U (100)	U (100)	U (1000)	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)
pH [pH UNITS]	NE	5.3 (0.10)	5.2 (0.10)	6.1 (0.10)	6.4 (0.10)	6.0 (0.10)	6.7 (0.10)	5.7 (0.10)	5.9 (0.10)	5.3 (0.10)	5.3 (0.10)	5.9 (0.10)	6.1 (0.10)	5.0 (0.10)
Phosphates (total)	NE	160 (30)	150 (30)	180 (30)	99 (30)	95 (30)	130 (30)	40 (30)	260 (30)	28 J (30)	120 (30)	170 (30)	190 (30)	88 (30)
Propionic Acid	NE	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)
Sulfide (total)	NE	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)
Sulfate	NE	2700 (1000)	376000 (25000)	15400 (1000)	15100 (1000)	98700 (10000)	14200 (1000)	18000 (2000)	6300 (1000)	12900 (1000)	9600 (1000)	7200 (1000)	36200 (2000)	55200 (10000)
Gasses														
Methane	NE	3.6 (0.50)	4.5 (0.50)	U (0.50)	16 (0.50)	0.94 (0.50)	U (0.50)	U (0.50)	1.0 (0.50)	0.65 (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)
Ethane	NE	0.57 (0.10)	0.29 (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Ethene	NE	0.91 (0.10)	U (0.10)	U (0.10)	0.11 (0.10)	0.21 (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Hydrogen (H2) [nM][4]	NE	1.4 (0.60)	76 (2.4)	2.3 (0.60)	1.4 (0.60)	9.6 (0.60)	3.0 (1.2)	1.4 (0.60)	1.1 (0.60)	1.4 (0.60)	1.6 (0.60)	1.4 (0.60)	2.2 (1.2)	2.8 (1.2)
Molecular Analyses														
BAV1 Vinyl Chloride Reductase [cells/mL]	NE	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.625)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)
Dehalococcoides (DHC) [cells/mL]	NE	U (0.5)	U (0.5)	U (0.5)	2.3 (0.5)	U (0.5)	0.9 (0.625)	U (0.5)	U (0.5)	11.3 (0.5)	2 (0.5)	U (0.5)	9.8 (0.5)	1.3 (0.5)
tceA Reductase [cells/mL]	NE	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.625)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)

Notes:

1 All concentrations are presented in ug/L except where noted.
2 Only compounds with at least one detection are shown, with the exception of Monitored Natural Attenuation Parameters, for which all compounds are shown.
3 Concentrations that exceed the Remedial Action Levels per ADEQ RADD Issued Dec 2013 are double underlined.
4 Concentration presented in nM = nanomolar. Sampling Method - Bubble Strip.

U = Not detected
J = Estimated concentration
d = The analyte concentration was determined from a dilution.
( ) = Method detection limit for VOCs; reporting limit for all other parameters
* = Sampled on different day than other parameters with different method
RADD = Remedial action decision document
ADEQ = Arkansas Department of Environmental Quality
VOC = Volatile organic compounds
µg/L = Micrograms per Liter
mL = Milliliters
NE = Not established
NM = Not measured

Onsite Wells
Offsite Wells
Plume Boundary Wells

TABLE 6
SUMMARY OF MONITORING WELL GROUNDWATER SAMPLE ANALYTICAL RESULTS
(FIRST QUARTER 2016)
Whirlpool Facility - Fort Smith, Arkansas

Location	Remedial Action Levels per ADEQ RADD Issued Dec 2013	MW-31R	MW-36R	MW-39R	MW-40R	MW-40R	MW-50R	MW-60R	MW-61R	MW-62R	MW-63R	MW-66	MW-67R	MW-68
Field Sample ID		MW-31R-201601	MW-36R-201601	MW-39R-201601	MW-40R-201601	DUP-06-201601	MW-50R-201601	MW-60R-201601	MW-61R-201601	MW-62R-201601	MW-63R-201601	MW-66-201601	MW-67R-201601	MW-68-201601
Lac Sample ID(s)		021NA054, 179440002	021NA015, 179430003	021NA047, 179430030	021NA041, 179430024	60211085031	021NA022, 179430012	021NA025, 179430013	021NA08, 179040010	021NA081, 179430017	021NA036, 179440011	021NA027, 179430015	021NA026, 179430014	021NA049, 179430033
Sample Date		1/12/2016	1/11/2016	1/12/2016	1/12/2016	1/12/2016	1/11/2016	1/11/2016	1/8/2016	1/11/2016	1/12/2016	1/11/2016	1/11/2016	1/12/2016
Sample Method		Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow
Comments						Field Duplicate								
Volatile Organic Compounds														
Acetone	12000	U (1.9)	19.8 (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)
Benzene	5	U (0.060)	0.22 J (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	0.12 J (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)
Bromodichloromethane	80	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)
Bromoform	80	U (0.070)	1.1 (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)
Bromomethane	7	U (0.16)	54.9 (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)
2-Butanone	4900	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)
Carbon Disulfide	720	U (0.12)	0.51 J (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
Carbon Tetrachloride	5	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
Chlorobenzene	100	0.22 J (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)
Chloroethane	12000	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroform	80	U (0.14)	0.23 J (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	0.33 J (0.14)	0.65 J (0.14)	U (0.14)	0.15 J (0.14)	U (0.14)
Chloromethane	190	U (0.080)	23.4 (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	0.27 J (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)
Dibromochloromethane	80	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)
1,1-Dichloroethane	2.4	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)
1,2-Dichloroethane	5	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
1,1-Dichloroethene	7	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
cis-1,2-Dichloroethene	70	U (0.080)	U (0.080)	U (0.080)	U (0.080)	0.22 J (0.080)	U (0.080)	U (0.080)	4.6 (0.080)	U (0.080)	0.39 J (0.080)	U (0.080)	U (0.080)	U (0.080)
trans-1,2-Dichloroethene	100	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
Ethyl Benzene	700	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
2-Hexanone	34	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)
4-Methyl-2-pentanone	1000	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)
Methylene Chloride	5	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
1,1,2,2-Tetrachloroethane	0.066	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Tetrachloroethene	5	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Toluene	1000	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	0.23 J (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)
1,1,1-Trichloroethane	200	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)
1,1,2-Trichloroethane	5	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
Trichloroethene	5	U (0.17)	0.31 J (0.17)	U (0.17)	U (0.17)	0.28 J (0.17)	0.42 J (0.17)	0.22 J (0.17)	3.9 (0.17)	U (0.17)	3.2 (0.17)	0.53 J (0.17)	U (0.17)	U (0.17)
Vinyl Chloride	2	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)
Metals														
Iron	NE	1330 (50.0)	16300 (50.0)	U (200)	17500 (50.0)	NM	8420 (50.0)	2120 (50.0)	27300 (50.0)	285 (50.0)	219 (50.0)	7740 (50.0)	U (200)	456 (50.0)
Manganese	NE	668 (5.0)	4210 (5.0)	986 (5.0)	4640 (5.0)	NM	184 (5.0)	2460 (5.0)	2850 (5.0)	944 (5.0)	610 (5.0)	89.6 (5.0)	1020 (5.0)	972 (5.0)
Monitored Natural Attenuation Parameters														
Acetic acid	NE	U (5000)	U (5000)	U (5000)	U (5000)	NM	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)
Acetylene	NE	U (0.50)	U (0.50)	U (0.50)	U (0.50)	NM	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)
Total Alkalinity	NE	27900 (20000)	36400 (20000)	88100 (20000)	64300 (20000)	NM	217000 (20000)	405000 (20000)	U (20000)	66800 (20000)	63400 (20000)	61700 (20000)	299000 (20000)	U (20000)
Ammonia	NE	U (100)	210 (100)	U (100)	U (100)	NM	U (100)	U (100)	980 (100)	U (100)	U (100)	U (100)	U (100)	U (100)
Bicarbonate Alkalinity	NE	27900 (20000)	36400 (20000)	88100 (20000)	64300 (20000)	NM	217000 (20000)	405000 (20000)	U (20000)	66800 (20000)	63400 (20000)	61700 (20000)	299000 (20000)	U (20000)
Carbon Dioxide	NE	318000 (20000)	481000 (20000)	189000 (20000)	164000 (20000)	NM	310000 (20000)	441000 (20000)	U (20000)	296000 (20000)	205000 (20000)	91500 (20000)	360000 (20000)	U (20000)
Organic Carbon (total)	NE	U (1000)	1100 (1000)	720 J (1000)	U (1000)	NM	U (1000)	640 J (1000)	7700 (2000)	U (1000)	530 J (1000)	2400 (1000)	2700 (1000)	U (1000)
Carbonate Alkalinity	NE	U (20000)	U (20000)	U (20000)	U (20000)	NM	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)
Chloride	NE	117000 (10000)	205000 (20000)	201000 (20000)	194000 (20000)	NM	219000 (20000)	114000 (10000)	81200 (5000)	139000 (10000)	115000 (10000)	34900 (5000)	107000 (10000)	216000 (20000)
Iron, Ferric	NE	460 (200)	16200 (200)	NM	14200 (200)	NM	7000 (200)	1800 (200)	24300 (200)	280 (200)	U (200)	7200 (200)	NM	360 (200)
Lactic Acid	NE	U (10000)	U (10000)	U (10000)	U (10000)	NM	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)
Nitrogen	NE	59 J (100)	1400 (100)	U (100)	15 J (100)	NM	U (100)	U (100)	U (100)	33 J (100)	110 (100)	430 (100)	U (100)	170 (100)
Nitrogen, Nitrate (As N)	NE	59 J (100)	1400 (100)	U (100)	15 J (100)	NM	U (100)	U (100)	U (100)	33 J (100)	110 (100)	430 (100)	U (100)	170 (100)
Nitrogen, Nitrite	NE	U (100)	U (100)	U (100)	U (100)	NM	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)
pH [pH UNITS]	NE	5.3 (0.10)	5.2 (0.10)	6.2 (0.10)	6.1 (0.10)	NM	6.6 (0.10)	7.0 (0.10)	6.8 (0.10)	5.8 (0.10)	5.9 (0.10)	6.5 (0.10)	6.8 (0.10)	5.1 (0.10)
Phosphates (total)	NE	58 (30)	91 (30)	110 (30)	120 (30)	NM	590 (30)	140 (30)	180 (30)	51 (30)	32 (30)	380 (30)	95 (30)	91 (30)
Propionic Acid	NE	U (5000)	U (5000)	U (5000)	U (5000)	NM	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)
Sulfide (total)	NE	U (50)	U (50)	U (50)	U (50)	NM	U (50)	U (50)	U (50)	U (50)	U (50)	U (500)	U (50)	U (50)
Sulfate	NE	28800 (2000)	2020000 (200000)	3700 (1000)	5300 (1000)	NM	9600 (1000)	33100 (5000)	12100 (1000)	7400 (1000)	7500 (1000)	3100 (1000)	27200 (2000)	1300 (1000)
Gasses														
Methane	NE	16 (0.50)	670 (0.50)	80 (0.50)	230 (0.50)	NM	460 (0.50)	8.1 (0.50)	12000 (0.50)	0.76 (0.50)	2.0 (0.50)	U (0.50)	43 (0.50)	1.9 (0.50)
Ethane	NE	U (0.10)	0.70 (0.10)	U (0.10)	0.24 (0.10)	NM	0.23 (0.10)	0.24 (0.10)	1.7 (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Ethene	NE	U (0.10)	0.60 (0.10)	0.55 (0.10)	0.21 (0.10)	NM	U (0.10)	U (0.10)	1.7 (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Hydrogen (H2) [nM][4]	NE	0.93 (0.60)	26000 (1200)	7.2 (0.60)	1.5 (0.60)	NM	1.0 (0.60)	1.2 (0.60)	0.98 (0.60)	1.4 (0.60)	1.0 (0.60)	0.98 (0.60)	1.6 (0.60)	8.9 (0.60)
Molecular Analyses														
BAV1 Vinyl Chloride Reductase [cells/mL]	NE	U (0.5)	U (0.5)	U (0.5)	U (0.5)	NM	U (0.95)	U (1.33)	U (1)	U (0.5)	U (0.5)	U (1.67)	U (0.5)	U (0.5)
Dehalococcoides (DHC) [cells/mL]	NE	15.3 (0.5)	U (0.5)	2.2 (0.5)	93.7 (0.5)	NM	U (0.95)	U (1.33)	30 (1)	1.6 (0.5)	15.4 (0.5)	U (1.67)	501 (0.5)	19.7 (0.5)
tceA Reductase [cells/mL]	NE	U (0.5)	U (0.5)	U (0.5)	U (0.5)	NM	U (0.95)	U (1.33)	U (1)	U (0.5)	U (0.5)	U (1.67)	U (0.5)	U (0.5)

Notes:

1 All concentrations are presented in ug/L except where noted.
2 Only compounds with at least one detection are shown, with the exception of Monitored Natural Attenuation Parameters, for which all compounds are shown.
3 Concentrations that exceed the Remedial Action Levels per ADEQ RADD Issued Dec 2013 are double underlined.
4 Concentration presented in nM = nanomolar. Sampling Method - Bubble Strip.

U = Not detected
J = Estimated concentration
d = The analyte concentration was determined from a dilution.
( ) = Method detection limit for VOCs; reporting limit for all other parameters
* = Sampled on different day than other parameters with different method
RADD = Remedial action decision document
ADEQ = Arkansas Department of Environmental Quality
VOC = Volatile organic compounds
µg/L = Micrograms per Liter
mL = Milliliters
NE = Not established
NM = Not measured

Onsite Wells
Offsite Wells
Plume Boundary Wells

TABLE 6
SUMMARY OF MONITORING WELL GROUNDWATER SAMPLE ANALYTICAL RESULTS
(FIRST QUARTER 2016)
Whirlpool Facility - Fort Smith, Arkansas

Location	Remedial Action Levels per ADEQ RADD Issued Dec 2013	MW-96	MW-97	MW-98	MW-99	IW-73	IW-74	IW-74	IW-76	IW-77	MW-41R	MW-41R	MW-46R	MW-55R
Field Sample ID		MW-96-201601	MW-97-201601	MW-98-201601	MW-99-201601	IW-73-201601	IW-74-201601	DUP-05-201601	IW-76-201601	IW-77-201601	MW-41R-201601	DUP-07-201601	MW-46R-201601	MW-55R-201601
Lac Sample ID(s)		021NA060, 179440006	021NA061, 179440004	021NA058, 179430023	021NA019, 179430021	021NA044, 179430027	021NA043, 179430026	60211085032	021NA046, 179430029	021NA028, 179430007	021NA045, 179430028	60211085030	021NA033, 179430031	021NA048, 179430032
Sample Date		1/12/2016	1/12/2016	1/11/2016	1/11/2016	1/12/2016	1/12/2016	1/12/2016	1/12/2016	1/11/2016	1/12/2016	1/12/2016	1/12/2016	1/12/2016
Sample Method		Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow
Comments								Field Duplicate				Field Duplicate		
Volatile Organic Compounds														
Acetone	12000	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	45.6 J (1.9)	19.5 (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)
Benzene	5	U (0.060)	U (0.060)	U (0.060)	U (0.060)	0.11 J (0.060)	0.18 J (0.060)	0.17 J (0.060)	U (0.060)	0.11 J (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)
Bromodichloromethane	80	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	0.56 J (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)
Bromoform	80	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	46.3 (0.070)	U (0.070)	U (0.070)	U (0.070)	0.91 J (0.070)	U (0.070)
Bromomethane	7	U (0.16)	U (0.16)	U (0.16)	1.3 J (0.16)	U (0.16)	U (0.16)	U (0.16)	105 (0.16)	5.3 (0.16)	U (0.16)	U (0.16)	1.6 J (0.16)	U (0.16)
2-Butanone	4900	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)
Carbon Disulfide	720	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
Carbon Tetrachloride	5	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
Chlorobenzene	100	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)
Chloroethane	12000	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroform	80	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	0.27 J (0.14)	0.26 J (0.14)	0.81 J (0.14)	0.81 J (0.14)	U (0.14)	0.15 J (0.14)
Chloromethane	190	U (0.080)	U (0.080)	0.17 J (0.080)	0.12 J (0.080)	U (0.080)	U (0.080)	U (0.080)	21.1 (0.080)	6.1 (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)
Dibromochloromethane	80	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	1.9 (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)
1,1-Dichloroethane	2.4	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)
1,2-Dichloroethane	5	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
1,1-Dichloroethene	7	U (0.20)	U (0.20)	U (0.20)	U (0.20)	0.92 J (0.20)	0.26 J (0.20)	0.28 J (0.20)	U (0.20)	U (0.20)	0.28 J (0.20)	0.30 J (0.20)	1.3 (0.20)	U (0.20)
cis-1,2-Dichloroethene	70	U (0.080)	U (0.080)	U (0.080)	U (0.080)	4.3 (0.080)	3.2 (0.080)	3.3 (0.080)	1.9 (0.080)	1.3 (0.080)	40.9 (0.080)	40.1 (0.080)	10.9 (0.080)	U (0.080)
trans-1,2-Dichloroethene	100	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	0.65 J (0.20)	0.26 J (0.20)	0.61 J (0.20)	U (0.20)	0.42 J (0.20)	U (0.20)
Ethyl Benzene	700	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
2-Hexanone	34	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)
4-Methyl-2-pentanone	1000	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)
Methylene Chloride	5	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
1,1,2,2-Tetrachloroethane	0.066	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Tetrachloroethene	5	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	UJ (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Toluene	1000	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	UJ (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)
1,1,1-Trichloroethane	200	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)
1,1,2-Trichloroethane	5	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
Trichloroethene	5	U (0.17)	U (0.17)	U (0.17)	0.21 J (0.17)	103 (0.17)	135 (0.17)	135 (0.17)	80.2 J (0.17)	95.3 (0.17)	59.9 (0.17)	56.6 (0.17)	432 (0.85)	0.26 J (0.17)
Vinyl Chloride	2	U (0.13)	U (0.13)	U (0.13)	U (0.13)	0.24 J (0.13)	0.17 J (0.13)	0.18 J (0.13)	U (0.13)	U (0.13)	0.38 J (0.13)	0.35 J (0.13)	0.56 J (0.13)	U (0.13)
Metals														
Iron	NE	963 (50.0)	320 (50.0)	234 (50.0)	1070 (50.0)	568 (50.0)	54.3 (50.0)	NM	2880 (50.0)	17.9 J (50.0)	15500 (50.0)	NM	119 (50.0)	138 (50.0)
Manganese	NE	436 (5.0)	18.9 (5.0)	371 (5.0)	25.8 (5.0)	1480 (5.0)	610 (5.0)	NM	2640 (5.0)	3.5 J (5.0)	10100 (5.0)	NM	107 (5.0)	116 (5.0)
Monitored Natural Attenuation Parameters														
Acetic acid	NE	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	NM	U (5000)	U (5000)	U (5000)	NM	U (5000)	U (5000)
Acetylene	NE	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	NM	U (0.50)	U (0.50)	U (0.50)	NM	U (0.50)	U (0.50)
Total Alkalinity	NE	26200 (20000)	75600 (20000)	116000 (20000)	61500 (20000)	75600 (20000)	68800 (20000)	NM	U (20000)	346000 (20000)	70100 (20000)	NM	U (20000)	51800 (20000)
Ammonia	NE	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)	NM	160 (100)	420 (100)	U (100)	NM	U (100)	U (100)
Bicarbonate Alkalinity	NE	26200 (20000)	75600 (20000)	116000 (20000)	61500 (20000)	75600 (20000)	68800 (20000)	NM	U (20000)	346000 (20000)	70100 (20000)	NM	U (20000)	51800 (20000)
Carbon Dioxide	NE	332000 (20000)	312000 (20000)	220000 (20000)	130000 (20000)	184000 (20000)	329000 (20000)	NM	U (20000)	354000 (20000)	170000 (20000)	NM	U (20000)	74200 (20000)
Organic Carbon (total)	NE	U (1000)	900 J (1000)	550 J (1000)	630 J (1000)	970 J (1000)	U (1000)	NM	U (1000)	3200 (1000)	U (1000)	NM	U (1000)	2000 (1000)
Carbonate Alkalinity	NE	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	U (20000)	NM	U (20000)	U (20000)	U (20000)	NM	U (20000)	U (20000)
Chloride	NE	23700 (2000)	9500 (1000)	7800 (1000)	5500 (1000)	157000 (20000)	227000 (20000)	NM	289000 (20000)	184000 (20000)	313000 (20000)	NM	217000 (20000)	11600 (1000)
Iron, Ferric	NE	560 (200)	300 (200)	200 (200)	1100 (200)	570 (200)	U (200)	NM	2900 (200)	U (200)	12200 (200)	NM	U (200)	U (200)
Lactic Acid	NE	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	NM	U (10000)	U (10000)	U (10000)	NM	U (10000)	U (10000)
Nitrogen	NE	160 (100)	160 (100)	130 (100)	760 (100)	260 (100)	690 (100)	NM	1400 (100)	2100 (100)	21 J (100)	NM	U (100)	160 (100)
Nitrogen, Nitrate (As N)	NE	160 (100)	160 (100)	130 (100)	760 (100)	260 (100)	690 (100)	NM	1400 (100)	2100 (100)	21 J (100)	NM	U (100)	160 (100)
Nitrogen, Nitrite	NE	U (100)	U (100)	U (100)	U (100)	U (100)	U (100)	NM	U (100)	U (100)	U (100)	NM	U (100)	U (100)
pH [pH UNITS]	NE	5.2 (0.10)	5.8 (0.10)	6.3 (0.10)	6.2 (0.10)	6.1 (0.10)	5.7 (0.10)	NM	5.0 (0.10)	7.1 (0.10)	6.1 (0.10)	NM	4.9 (0.10)	6.6 (0.10)
Phosphates (total)	NE	36 (30)	130 (30)	99 (30)	140 (30)	140 (30)	210 (30)	NM	260 (30)	890 (30)	47 (30)	NM	62 (30)	80 (30)
Propionic Acid	NE	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	NM	U (5000)	U (5000)	U (5000)	NM	U (5000)	U (5000)
Sulfide (total)	NE	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	NM	U (50)	U (50)	U (50)	NM	U (50)	U (50)
Sulfate	NE	11200 (1000)	49200 (5000)	14500 (1000)	6900 (1000)	7000 (1000)	3000 (1000)	NM	1450000 (100000)	1880000 (100000)	2400 (1000)	NM	640 J (1000)	16600 (1000)
Gasses														
Methane	NE	12 (0.50)	36 (0.50)	42 (0.50)	U (0.50)	6.8 (0.50)	17 (0.50)	NM	8.5 (0.50)	3.1 (0.50)	1000 (0.50)	NM	14 (0.50)	1.7 (0.50)
Ethane	NE	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	NM	U (0.10)	U (0.10)	1.8 (0.10)	NM	U (0.10)	U (0.10)
Ethene	NE	U (0.10)	0.70 (0.10)	U (0.10)	U (0.10)	0.18 (0.10)	U (0.10)	NM	U (0.10)	0.13 (0.10)	2.2 (0.10)	NM	0.10 (0.10)	U (0.10)
Hydrogen (H2) [nM][4]	NE	1.1 (0.60)	NM	NM	1.2 (0.60)	0.98 (0.60)	0.99 (0.60)	NM	60 (1.2)	72 (2.4)	1.0 (0.60)	NM	1.2 (0.60)	1.1 (0.60)
Molecular Analyses														
BAV1 Vinyl Chloride Reductase [cells/mL]	NE	U (0.5)	U (1)	U (1)	U (0.5)	44.1 (0.5)	340 (0.5)	NM	U (0.5)	U (0.5)	U (0.5)	NM	12.8 (0.5)	U (0.67)
Dehalococcoides (DHC) [cells/mL]	NE	2.3 (0.5)	1 J (1)	U (1)	U (0.5)	210 (0.5)	2200 (0.5)	NM	U (0.5)	U (0.5)	61.7 (0.5)	NM	49.5 (0.5)	0.3 J (0.67)
tceA Reductase [cells/mL]	NE	U (0.5)	U (1)	U (1)	U (0.5)	U (0.5)	U (0.5)	NM	U (0.5)	U (0.5)	U (0.5)	NM	U (0.5)	U (0.67)

Notes:

1 All concentrations are presented in ug/L except where noted.
2 Only compounds with at least one detection are shown, with the exception of Monitored Natural Attenuation Parameters, for which all compounds are shown.
3 Concentrations that exceed the Remedial Action Levels per ADEQ RADD Issued Dec 2013 are double underlined.
4 Concentration presented in nM = nanomolar. Sampling Method - Bubble Strip.

U = Not detected
J = Estimated concentration
d = The analyte concentration was determined from a dilution.
( ) = Method detection limit for VOCs; reporting limit for all other parameters
* = Sampled on different day than other parameters with different method
RADD = Remedial action decision document
ADEQ = Arkansas Department of Environmental Quality
VOC = Volatile organic compounds
µg/L = Micrograms per Liter
mL = Milliliters
NE = Not established
NM = Not measured

Onsite Wells
Offsite Wells
Plume Boundary Wells

TABLE 6
SUMMARY OF MONITORING WELL GROUNDWATER SAMPLE ANALYTICAL RESULTS
(FIRST QUARTER 2016)
Whirlpool Facility - Fort Smith, Arkansas

Location	Remedial Action Levels per ADEQ RADD Issued Dec 2013	MW-56R	MW-57R	MW-58R	MW-58R	MW-71	MW-81	MW-82	RW-69	IW-78	IW-79	IW-101	IW-115	MW-23
Field Sample ID		MW-56R-201601	MW-57R-201601	MW-58R-201601	DUP-10-201601	MW-71-201601	MW-81-201601	MW-82-201601	RW-69-201601	IW-78-201601	IW-79-201601	IW-101-201601	IW-115-201601	MW-23-201601
Lac Sample ID(s)		021NA069, 179430018	021NA082, 179430019	021NA053, 179440008	60211085033	021NA024, 179430020	021NA030, 179430005	021NA029, 179430006	021NA050, 179430034	60210967008	60210967009	60210853007	60210967010	021NA01, 179040001
Sample Date		1/11/2016	1/11/2016	1/12/2016	1/12/2016	1/11/2016	1/11/2016	1/11/2016	1/12/2016	1/11/2016	1/11/2016	1/7/2016	1/11/2016	1/7/2016
Sample Method		Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow
Comments					Field Duplicate									
Volatile Organic Compounds														
Acetone	12000	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	20.8 (1.9)	31.4 (1.9)	U (1.9)	20.2 (1.9)	12.6 (1.9)	14.7 (1.9)	U (1.9)	U (1.9)
Benzene	5	0.16 J (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	0.10 J (0.060)	0.17 J (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)
Bromodichloromethane	80	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	0.37 J (0.19)	U (0.19)	U (0.19)
Bromoform	80	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	0.15 J (0.070)	U (0.070)	1.5 (0.070)	0.48 J (0.070)	19.1 (0.070)	U (0.070)	U (0.070)
Bromomethane	7	1.0 J (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	11.6 (0.16)	5.2 (0.16)	U (0.16)	7.8 (0.16)	1.6 J (0.16)	4.7 J (0.16)	1.8 J (0.16)	1.7 J (0.16)
2-Butanone	4900	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)
Carbon Disulfide	720	0.16 J (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	0.84 J (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
Carbon Tetrachloride	5	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
Chlorobenzene	100	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)
Chloroethane	12000	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroform	80	0.70 J (0.14)	0.23 J (0.14)	U (0.14)	U (0.14)	U (0.14)	0.18 J (0.14)	U (0.14)	U (0.14)	U (0.14)	0.14 J (0.14)	0.34 J (0.14)	U (0.14)	U (0.14)
Chloromethane	190	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	3.5 (0.080)	5.4 (0.080)	U (0.080)	5.4 (0.080)	3.3 (0.080)	4.8 (0.080)	U (0.080)	2.5 B (0.080)
Dibromochloromethane	80	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	0.95 J (0.21)	U (0.21)	U (0.21)
1,1-Dichloroethane	2.4	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)
1,2-Dichloroethane	5	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
1,1-Dichloroethene	7	1.6 (0.20)	1.7 (0.20)	1.9 (0.20)	1.8 (0.20)	1.3 (0.20)	0.48 J (0.20)	U (0.20)	0.52 J (0.20)	U (0.20)	U (0.20)	U (0.20)	0.26 J (0.20)	U (0.20)
cis-1,2-Dichloroethene	70	19.2 (0.080)	15.7 (0.080)	28.7 (0.080)	29.4 (0.080)	6.1 (0.080)	3.9 (0.080)	0.18 J (0.080)	4.6 (0.080)	U (0.080)	1.4 (0.080)	1.1 (0.080)	3.6 (0.080)	U (0.080)
trans-1,2-Dichloroethene	100	0.28 J (0.20)	0.26 J (0.20)	0.24 J (0.20)	0.25 J (0.20)	U (0.20)	0.48 J (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	0.24 J (0.20)	0.39 J (0.20)	U (0.20)
Ethyl Benzene	700	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
2-Hexanone	34	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)
4-Methyl-2-pentanone	1000	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)
Methylene Chloride	5	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
1,1,2,2-Tetrachloroethane	0.066	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Tetrachloroethene	5	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Toluene	1000	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)
1,1,1-Trichloroethane	200	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)
1,1,2-Trichloroethane	5	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
Trichloroethene	5	408 (0.85)	422 (0.85)	312 (0.85)	319 (0.85)	171 (0.17)	157 (0.17)	5.6 (0.17)	128 (0.17)	1.5 (0.17)	70.0 (0.17)	42.9 (0.17)	169 (0.17)	0.48 J (0.17)
Vinyl Chloride	2	0.32 J (0.13)	0.48 J (0.13)	0.67 J (0.13)	0.66 J (0.13)	0.40 J (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)
Metals														
Iron	NE	342 (50.0)	1610 (50.0)	10400 (50.0)	NM	325 (50.0)	148 (50.0)	118 (50.0)	177 (50.0)	NM	NM	NM	NM	267 (50.0)
Manganese	NE	3140 (5.0)	1020 (5.0)	2170 (5.0)	NM	1330 (5.0)	52.9 (5.0)	539 (5.0)	718 (5.0)	NM	NM	NM	NM	23.5 (5.0)
Monitored Natural Attenuation Parameters														
Acetic acid	NE	U (5000)	U (5000)	U (5000)	NM	U (5000)	U (5000)	U (5000)	U (5000)	NM	NM	NM	NM	U (5000)
Acetylene	NE	0.62 (0.50)	U (0.50)	U (0.50)	NM	U (0.50)	U (0.50)	U (0.50)	U (0.50)	NM	NM	NM	NM	U (0.50)
Total Alkalinity	NE	127000 (20000)	92200 (20000)	35300 (20000)	NM	22700 (20000)	134000 (20000)	40800 (20000)	U (20000)	NM	NM	NM	NM	635000 (20000)
Ammonia	NE	U (100)	U (100)	U (100)	NM	U (100)	130 (100)	440 (100)	U (100)	NM	NM	NM	NM	380 (100)
Bicarbonate Alkalinity	NE	127000 (20000)	92200 (20000)	35300 (20000)	NM	22700 (20000)	134000 (20000)	40800 (20000)	U (20000)	NM	NM	NM	NM	U (20000)
Carbon Dioxide	NE	258000 (20000)	409000 (20000)	249000 (20000)	NM	93500 (20000)	203000 (20000)	231000 (20000)	U (20000)	NM	NM	NM	NM	214000 (20000)
Organic Carbon (total)	NE	930 J (1000)	680 J (1000)	U (1000)	NM	U (1000)	1700 (1000)	5000 (1000)	U (1000)	NM	NM	NM	NM	1600 (1000)
Carbonate Alkalinity	NE	U (20000)	U (20000)	U (20000)	NM	U (20000)	U (20000)	U (20000)	U (20000)	NM	NM	NM	NM	487000 (20000)
Chloride	NE	152000 (20000)	160000 (20000)	228000 (20000)	NM	227000 (20000)	237000 (50000)	144000 (20000)	256000 (20000)	NM	NM	NM	NM	263000 (20000)
Iron, Ferric	NE	340 (200)	1600 (200)	7000 (200)	NM	U (200)	U (200)	U (200)	U (200)	NM	NM	NM	NM	270 (200)
Lactic Acid	NE	U (10000)	U (10000)	U (10000)	NM	U (10000)	U (10000)	U (10000)	U (10000)	NM	NM	NM	NM	U (10000)
Nitrogen	NE	U (100)	U (100)	U (100)	NM	U (100)	1400 (100)	1000 (100)	41 J (100)	NM	NM	NM	NM	1200 (100)
Nitrogen, Nitrate (As N)	NE	U (100)	U (100)	U (100)	NM	U (100)	1400 (100)	940 (100)	41 J (100)	NM	NM	NM	NM	1200 (100)
Nitrogen, Nitrite	NE	U (100)	U (100)	U (100)	NM	U (100)	U (100)	94 J (100)	U (100)	NM	NM	NM	NM	U (100)
pH [pH UNITS]	NE	6.2 (0.10)	5.8 (0.10)	5.5 (0.10)	NM	5.8 (0.10)	6.5 (0.10)	5.6 (0.10)	5.4 (0.10)	NM	NM	NM	NM	11.5 (0.10)
Phosphates (total)	NE	77 (30)	110 (30)	43 (30)	NM	43 (30)	3000 (60)	850 (30)	62 (30)	NM	NM	NM	NM	750 (30)
Propionic Acid	NE	U (5000)	U (5000)	U (5000)	NM	U (5000)	U (5000)	U (5000)	U (5000)	NM	NM	NM	NM	U (5000)
Sulfide (total)	NE	U (50)	U (50)	U (50)	NM	U (50)	U (50)	U (50)	U (50)	NM	NM	NM	NM	U (50)
Sulfate	NE	17800 (2000)	4900 (1000)	1200 (1000)	NM	2600 (1000)	832000 (50000)	1260000 (200000)	1800 (1000)	NM	NM	NM	NM	1020000 (100000)
Gasses														
Methane	NE	10 (0.50)	31 (0.50)	700 (0.50)	NM	40 (0.50)	7.3 (0.50)	3.1 (0.50)	0.51 (0.50)	NM	NM	NM	NM	3.0 (0.50)
Ethane	NE	0.26 (0.10)	0.11 (0.10)	1.1 (0.10)	NM	U (0.10)	U (0.10)	U (0.10)	U (0.10)	NM	NM	NM	NM	U (0.10)
Ethene	NE	0.69 (0.10)	0.20 (0.10)	2.6 (0.10)	NM	U (0.10)	0.11 (0.10)	0.76 (0.10)	U (0.10)	NM	NM	NM	NM	U (0.10)
Hydrogen (H2) [nM][4]	NE	1.4 (0.60)	1.4 (0.60)	1.4 (0.60)	NM	1.6 (0.60)	39 (1.2)	25 (0.60)	1.0 (0.60)	NM	NM	NM	NM	19 (0.60)
Molecular Analyses														
BAV1 Vinyl Chloride Reductase [cells/mL]	NE	U (0.5)	U (0.5)	U (0.5)	NM	U (0.5)	U (0.5)	U (0.5)	3.8 (0.5)	NM	NM	NM	NM	U (0.5)
Dehalococcoides (DHC) [cells/mL]	NE	0.4 J (0.5)	12.1 (0.5)	8.7 (0.5)	NM	8.1 (0.5)	U (0.5)	1.1 (0.5)	29.1 (0.5)	NM	NM	NM	NM	U (0.5)
tceA Reductase [cells/mL]	NE	U (0.5)	U (0.5)	U (0.5)	NM	U (0.5)	U (0.5)	0.1 J (0.5)	U (0.5)	NM	NM	NM	NM	U (0.5)

Notes:

1 All concentrations are presented in ug/L except where noted.
2 Only compounds with at least one detection are shown, with the exception of Monitored Natural Attenuation Parameters, for which all compounds are shown.
3 Concentrations that exceed the Remedial Action Levels per ADEQ RADD Issued Dec 2013 are double underlined.
4 Concentration presented in nM = nanomolar. Sampling Method - Bubble Strip.

U = Not detected
J = Estimated concentration
d = The analyte concentration was determined from a dilution.
( ) = Method detection limit for VOCs; reporting limit for all other parameters
* = Sampled on different day than other parameters with different method
RADD = Remedial action decision document
ADEQ = Arkansas Department of Environmental Quality
VOC = Volatile organic compounds
µg/L = Micrograms per Liter
mL = Milliliters
NE = Not established
NM = Not measured

Onsite Wells
Offsite Wells
Plume Boundary Wells

TABLE 6
SUMMARY OF MONITORING WELL GROUNDWATER SAMPLE ANALYTICAL RESULTS
(FIRST QUARTER 2016)
Whirlpool Facility - Fort Smith, Arkansas

Location	Remedial Action Levels per ADEQ RADD Issued Dec 2013	MW-24	MW-173	MW-174	MW-175	MW-176	MW-177	MW-179	MW-180	MW-181	MW-182	MW-183	MW-184	MW-185
Field Sample ID		MW-24-201601	MW-173-201601	MW-174-201601	MW-175-201601	MW-176-201601	MW-177-201601	MW-179-201601	MW-180-201601	MW-181-201601	MW-182-201601	MW-183-201601	MW-184-201601	MW-185-201601
Lac Sample ID(s)		021NA02, 179040002	60211266002	60211266001	60210979001	60211267001	60210978002	60211269001	60211330001	60210978001	021NA090, 179440032	021NA056, 179440005	021NA018, 179430022	021NA021, 179430010
Sample Date		1/7/2016	1/12/2016	1/12/2016	1/11/2016	1/12/2016	1/11/2016	1/13/2016	1/14/2016	1/11/2016	1/13/2016	1/12/2016	1/11/2016	1/11/2016
Sample Method		Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow
Comments														
Volatile Organic Compounds														
Acetone	12000	82.2 (1.9)	81.4 J (1.9)	U (1.9)	23.4 (1.9)	U (1.9)	U (1.9)	2.7 J (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)
Benzene	5	U (0.060)	0.89 J (0.060)	0.13 J (0.060)	0.16 J (0.060)	0.11 J (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)
Bromodichloromethane	80	0.51 J (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)
Bromoform	80	16.8 (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)
Bromomethane	7	49.8 (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)
2-Butanone	4900	3.3 J (0.59)	21.2 (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)
Carbon Disulfide	720	U (0.12)	2.0 J (0.12)	U (0.12)	0.15 J (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
Carbon Tetrachloride	5	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
Chlorobenzene	100	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	0.32 J (0.21)	U (0.21)	U (0.21)	U (0.21)
Chloroethane	12000	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroform	80	0.44 J (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)
Chloromethane	190	53.4 (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	0.22 J (0.080)	U (0.080)
Dibromochloromethane	80	1.1 (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)
1,1-Dichloroethane	2.4	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)
1,2-Dichloroethane	5	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
1,1-Dichloroethene	7	0.24 J (0.20)	U (0.20)	U (0.20)	U (0.20)	4.7 (0.20)	U (0.20)	0.48 J (0.20)	U (0.20)	U (0.20)	0.25 J (0.20)	U (0.20)	U (0.20)	U (0.20)
cis-1,2-Dichloroethene	70	0.48 J (0.080)	U (0.080)	U (0.080)	1.1 (0.080)	125 (0.080)	U (0.080)	1.1 (0.080)	1.5 (0.080)	U (0.080)	19.9 (0.080)	0.32 J (0.080)	U (0.080)	U (0.080)
trans-1,2-Dichloroethene	100	U (0.20)	U (0.20)	U (0.20)	U (0.20)	0.96 J (0.20)	U (0.20)	U (0.20)	0.27 J (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
Ethyl Benzene	700	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
2-Hexanone	34	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)
4-Methyl-2-pentanone	1000	U (0.42)	0.99 J (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)
Methylene Chloride	5	0.45 J (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	0.56 J (0.15)	0.63 J (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
1,1,2,2-Tetrachloroethane	0.066	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Tetrachloroethene	5	U (0.10)	U (0.10)	U (0.10)	U (0.10)	0.17 J (0.10)	U (0.10)	1.1 (0.10)	0.25 J (0.10)	0.28 J (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Toluene	1000	U (0.17)	0.27 J (0.17)	U (0.17)	U (0.17)	0.36 J (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)
1,1,1-Trichloroethane	200	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)
1,1,2-Trichloroethane	5	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
Trichloroethene	5	49.3 (0.17)	U (0.17)	U (0.17)	52.6 (0.17)	306 (1.7)	U (0.17)	30.6 (0.17)	10.6 (0.17)	U (0.17)	258 (0.85)	2.7 (0.17)	U (0.17)	0.87 J (0.17)
Vinyl Chloride	2	U (0.13)	U (0.13)	U (0.13)	U (0.13)	1.3 (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	0.30 J (0.13)	U (0.13)	U (0.13)	U (0.13)
Metals														
Iron	NE	51.2 (50.0)	NM	NM	NM	NM	NM	NM	NM	NM	17.2 J (50.0)	167 (50.0)	2050 (50.0)	5480 (50.0)
Manganese	NE	343 (5.0)	NM	NM	NM	NM	NM	NM	NM	NM	394 (5.0)	36.9 (5.0)	227 (5.0)	146 (5.0)
Monitored Natural Attenuation Parameters														
Acetic acid	NE	U (5000)	NM	NM	NM	NM	NM	NM	NM	NM	U (5000)	U (5000)	U (5000)	U (5000)
Acetylene	NE	U (0.50)	NM	NM	NM	NM	NM	NM	NM	NM	U (0.50)	U (0.50)	U (0.50)	U (0.50)
Total Alkalinity	NE	U (20000)	NM	NM	NM	NM	NM	NM	NM	NM	46000 (20000)	96200 (20000)	51200 (20000)	U (20000)
Ammonia	NE	U (100)	NM	NM	NM	NM	NM	NM	NM	NM	U (100)	U (100)	U (100)	U (100)
Bicarbonate Alkalinity	NE	U (20000)	NM	NM	NM	NM	NM	NM	NM	NM	46000 (20000)	96200 (20000)	51200 (20000)	U (20000)
Carbon Dioxide	NE	U (20000)	NM	NM	NM	NM	NM	NM	NM	NM	123000 (20000)	203000 (20000)	165000 (20000)	U (20000)
Organic Carbon (total)	NE	580 J (1000)	NM	NM	NM	NM	NM	NM	NM	NM	U (1000)	530 J (1000)	650 J (1000)	U (1000)
Carbonate Alkalinity	NE	U (20000)	NM	NM	NM	NM	NM	NM	NM	NM	U (20000)	U (20000)	U (20000)	U (20000)
Chloride	NE	313000 (20000)	NM	NM	NM	NM	NM	NM	NM	NM	224000 (20000)	5300 (1000)	7000 (1000)	7900 (1000)
Iron, Ferric	NE	U (200)	NM	NM	NM	NM	NM	NM	NM	NM	U (200)	U (200)	2000 (200)	5500 (200)
Lactic Acid	NE	U (10000)	NM	NM	NM	NM	NM	NM	NM	NM	U (10000)	U (10000)	U (10000)	U (10000)
Nitrogen	NE	1500 (100)	NM	NM	NM	NM	NM	NM	NM	NM	10000 (500)	770 (100)	720 (100)	890 (100)
Nitrogen, Nitrate (As N)	NE	1500 (100)	NM	NM	NM	NM	NM	NM	NM	NM	10000 (500)	770 (100)	720 (100)	890 (100)
Nitrogen, Nitrite	NE	U (100)	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	U (100)	U (100)	U (100)
pH [pH UNITS]	NE	3.5 (0.10)	NM	NM	NM	NM	NM	NM	NM	NM	6.0 (0.10)	6.2 (0.10)	5.9 (0.10)	6.8 (0.10)
Phosphates (total)	NE	180 (30)	NM	NM	NM	NM	NM	NM	NM	NM	95 (30)	120 (30)	110 (30)	390 M1 (30)
Propionic Acid	NE	U (5000)	NM	NM	NM	NM	NM	NM	NM	NM	U (5000)	U (5000)	U (5000)	U (5000)
Sulfide (total)	NE	U (50)	NM	NM	NM	NM	NM	NM	NM	NM	U (50)	U (50)	U (50)	U (50)
Sulfate	NE	1190000 (100000)	NM	NM	NM	NM	NM	NM	NM	NM	20500 (2000)	24200 (2000)	2500 (1000)	8400 (1000)
Gasses														
Methane	NE	9.3 (0.50)	NM	NM	NM	NM	NM	NM	NM	NM	8.2 (0.50)	U (0.50)	U (0.50)	U (0.50)
Ethane	NE	0.14 (0.10)	NM	NM	NM	NM	NM	NM	NM	NM	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Ethene	NE	U (0.10)	NM	NM	NM	NM	NM	NM	NM	NM	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Hydrogen (H2) [nM][4*]	NE	99 (4.8)	NM	NM	NM	NM	NM	NM	NM	NM	1.2 (0.60)	1.3 (0.60)	1.2 (0.60)	0.93 (0.60)
Molecular Analyses														
BAV1 Vinyl Chloride Reductase [cells/mL]	NE	U (0.5)	NM	NM	NM	NM	NM	NM	NM	NM	U (0.5)	U (1)	U (0.5)	U (3.33)
Dehalococcoides (DHC) [cells/mL]	NE	U (0.5)	NM	NM	NM	NM	NM	NM	NM	NM	U (0.5)	U (1)	U (0.5)	U (3.33)
tceA Reductase [cells/mL]	NE	U (0.5)	NM	NM	NM	NM	NM	NM	NM	NM	U (0.5)	U (1)	U (0.5)	U (3.33)

Notes:

1 All concentrations are presented in ug/L except where noted.
2 Only compounds with at least one detection are shown, with the exception of Monitored Natural Attenuation Parameters, for which all compounds are shown.
3 Concentrations that exceed the Remedial Action Levels per ADEQ RADD Issued Dec 2013 are double underlined.
4 Concentration presented in nM = nanomolar. Sampling Method - Bubble Strip.

U = Not detected
J = Estimated concentration
d = The analyte concentration was determined from a dilution.
( ) = Method detection limit for VOCs; reporting limit for all other parameters
* = Sampled on different day than other parameters with different method
RADD = Remedial action decision document
ADEQ = Arkansas Department of Environmental Quality
VOC = Volatile organic compounds
µg/L = Micrograms per Liter
mL = Milliliters
NE = Not established
NM = Not measured

Onsite Wells
Offsite Wells
Plume Boundary Wells

TABLE 6
SUMMARY OF MONITORING WELL GROUNDWATER SAMPLE ANALYTICAL RESULTS
(FIRST QUARTER 2016)
Whirlpool Facility - Fort Smith, Arkansas

Location	Remedial Action Levels per ADEQ RADD Issued Dec 2013	MW-186	MW-187	MW-188	MW-189	MW-190	MW-191	MW-192	MW-193	TMW-10	TMW-11
Field Sample ID		MW-186-201601	MW-187-201601	MW-188-201601	MW-189-201601	MW-190-201601	MW-191-201601	MW-192-201601	MW-193-201601	TMW-10-201601	TMW-11-201601
Lac Sample ID(s)		021NA06, 179040006	021NA011, 179040009	021NA012, 179040012	021NA07, 179040007	021NA031, 179430011	021NA020, 179430008	021NA023, 179430009	021NA016, 179430016	60210924001	021NA010, 179040011
Sample Date		1/7/2016	1/8/2016	1/8/2016	1/7/2016	1/11/2016	1/11/2016	1/11/2016	1/11/2016	1/8/2016	1/8/2016
Sample Method		Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow
Comments											
Volatile Organic Compounds											
Acetone	12000	U (1.9)	U (1.9)	U (1.9)	U (1.9)	5.1 J (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	1120 (9.4)
Benzene	5	U (0.060)	U (0.060)	U (0.060)	U (0.060)	0.10 J (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	0.11 J (0.060)
Bromodichloromethane	80	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)
Bromoform	80	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)
Bromomethane	7	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)
2-Butanone	4900	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	902 (0.59)
Carbon Disulfide	720	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	0.68 J (0.12)
Carbon Tetrachloride	5	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
Chlorobenzene	100	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)
Chloroethane	12000	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroform	80	U (0.14)	0.22 J (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)
Chloromethane	190	U (0.080)	0.42 J (0.080)	0.23 J (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	0.14 J (0.080)	0.31 J (0.080)
Dibromochloromethane	80	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)
1,1-Dichloroethane	2.4	0.67 J (0.050)	U (0.050)	U (0.050)	0.28 J (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)
1,2-Dichloroethane	5	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
1,1-Dichloroethene	7	0.39 J (0.20)	U (0.20)	U (0.20)	0.93 J (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
cis-1,2-Dichloroethene	70	3.2 (0.080)	0.27 J (0.080)	U (0.080)	5.4 (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	3.1 (0.080)	5.3 (0.080)
trans-1,2-Dichloroethene	100	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
Ethyl Benzene	700	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
2-Hexanone	34	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	3.9 J (1.2)
4-Methyl-2-pentanone	1000	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	1.1 J (0.42)
Methylene Chloride	5	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
1,1,2,2-Tetrachloroethane	0.066	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Tetrachloroethene	5	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Toluene	1000	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	0.44 J (0.17)
1,1,1-Trichloroethane	200	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)
1,1,2-Trichloroethane	5	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
Trichloroethene	5	3.0 (0.17)	0.22 J (0.17)	U (0.17)	4.5 (0.17)	U (0.17)	U (0.17)	0.30 J (0.17)	U (0.17)	103 (0.17)	3.1 (0.17)
Vinyl Chloride	2	U (0.13)	U (0.13)	U (0.13)	0.19 J (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)
Metals											
Iron	NE	56.2 (50.0)	11100 (50.0)	11700 (50.0)	253 (50.0)	5670 (50.0)	358 (50.0)	354 (50.0)	3400 (50.0)	NM	20900 (50.0)
Manganese	NE	101 (5.0)	253 (5.0)	250 (5.0)	87.7 (5.0)	84.9 (5.0)	177 (5.0)	129 (5.0)	2050 (5.0)	NM	4090 (5.0)
Monitored Natural Attenuation Parameters											
Acetic acid	NE	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	NM	18000 (5000)
Acetylene	NE	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	U (0.50)	NM	U (0.50)
Total Alkalinity	NE	79600 (20000)	234000 (20000)	115000 (20000)	70700 (20000)	241000 (20000)	54000 (20000)	22700 (20000)	71600 (20000)	NM	1750000 (40000)
Ammonia	NE	U (100)	U (100)	U (100)	U (100)	450 (100)	U (100)	U (100)	U (100)	NM	1900 (100)
Bicarbonate Alkalinity	NE	79600 (20000)	217000 (20000)	115000 (20000)	70700 (20000)	U (20000)	54000 (20000)	22700 (20000)	71600 (20000)	NM	1750000 (40000)
Carbon Dioxide	NE	249000 (20000)	191000 (20000)	225000 (20000)	160000 (20000)	37400 (20000)	85000 (20000)	131000 (20000)	391000 (20000)	NM	1770000 (20000)
Organic Carbon (total)	NE	630 J (1000)	U (1000)	U (1000)	U (1000)	2100 (1000)	U (1000)	620 J (1000)	650 J (1000)	NM	306000 (100000)
Carbonate Alkalinity	NE	U (20000)	U (20000)	U (20000)	U (20000)	84900 (20000)	U (20000)	U (20000)	U (20000)	NM	U (40000)
Chloride	NE	77400 (10000)	89900 (10000)	159000 (10000)	55000 (5000)	22700 (5000)	9400 (1000)	10700 (1000)	9600 (1000)	NM	131000 (20000)
Iron, Ferric	NE	U (200)	11100 (200)	11100 (200)	U (200)	2400 (200)	360 (200)	350 (200)	3200 (200)	NM	17900 (200)
Lactic Acid	NE	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	U (10000)	NM	64000 (10000)
Nitrogen	NE	10900 (500)	3300 (100)	4200 (100)	3300 (100)	910 (100)	4400 (100)	2200 (100)	270 (100)	NM	U (100)
Nitrogen, Nitrate (As N)	NE	10900 (500)	3100 (100)	4200 (100)	3300 (100)	880 (100)	4400 (100)	2200 (100)	270 (100)	NM	U (100)
Nitrogen, Nitrite	NE	U (500)	190 (100)	U (100)	U (100)	32 J (100)	U (100)	U (100)	U (100)	NM	U (100)
pH [pH UNITS]	NE	6.0 (0.10)	9.8 (0.10)	6.3 (0.10)	6.2 (0.10)	12.0 (0.10)	6.5 (0.10)	5.6 (0.10)	5.6 (0.10)	NM	7.2 (0.10)
Phosphates (total)	NE	110 (30)	280 (30)	480 (30)	110 (30)	540 (30)	180 (30)	270 (30)	190 (30)	NM	350 (30)
Propionic Acid	NE	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	NM	260000 (5000)
Sulfide (total)	NE	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	U (50)	NM	NM
Sulfate	NE	103000 (10000)	32200 (2000)	23000 (2000)	9200 (1000)	8100 (1000)	5500 (1000)	5700 (1000)	37000 (5000)	NM	1200 (1000)
Gasses											
Methane	NE	0.90 (0.50)	2.2 (0.50)	2.1 (0.50)	3.2 (0.50)	4.8 (0.50)	0.62 (0.50)	1.1 (0.50)	0.66 (0.50)	NM	15000 (0.50)
Ethane	NE	U (0.10)	1.2 (0.10)	0.23 (0.10)	0.22 (0.10)	1.5 (0.10)	0.11 (0.10)	0.17 (0.10)	U (0.10)	NM	0.36 (0.10)
Ethene	NE	U (0.10)	1.1 (0.10)	0.25 (0.10)	0.17 (0.10)	1.1 (0.10)	U (0.10)	0.19 (0.10)	U (0.10)	NM	2.4 (0.10)
Hydrogen (H2) [nM][4]	NE	8.4 (0.60)	9.1 (0.60)	9.3 (0.60)	10 (0.60)	2.4 (0.60)	1.4 (0.60)	1.2 (0.60)	2.0 (0.60)	NM	NM
Molecular Analyses											
BAV1 Vinyl Chloride Reductase [cells/mL]	NE	0.2 J (0.5)	U (1.67)	U (1.67)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (1)	NM	U (8.33)
Dehalococcoides (DHC) [cells/mL]	NE	0.3 J (0.5)	U (1.67)	U (1.67)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (1)	NM	48.9 (8.33)
tceA Reductase [cells/mL]	NE	U (0.5)	U (1.67)	U (1.67)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (1)	NM	3.2 J (8.33)

Notes:

1 All concentrations are presented in ug/L except where noted.
2 Only compounds with at least one detection are shown, with the exception of Monitored Natural Attenuation Parameters, for which all compounds are shown.
3 Concentrations that exceed the Remedial Action Levels per ADEQ RADD Issued Dec 2013 are double underlined.
4 Concentration presented in nM = nanomolar. Sampling Method - Bubble Strip.

U = Not detected
J = Estimated concentration
d = The analyte concentration was determined from a dilution.
( ) = Method detection limit for VOCs; reporting limit for all other parameters
* = Sampled on different day than other parameters with different method
RADD = Remedial action decision document
ADEQ = Arkansas Department of Environmental Quality
VOC = Volatile organic compounds
µg/L = Micrograms per Liter
mL = Milliliters
NE = Not established
NM = Not measured

Onsite Wells
Offsite Wells
Plume Boundary Wells

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)	
ITMW-1	ITMW-1-19891101	11/1/1989	ND	NT	ND	
ITMW-1	ITMW-1-19900101	1/1/1990	ND	NT	ND	
ITMW-1	ITMW-1-19931101	11/1/1993	10	NT	ND	
ITMW-1	ITMW-1-19961201	12/1/1996	21	NT	ND	
ITMW-1	ITMW-1-19990201	2/1/1999	37	ND	ND	
ITMW-1	ITMW-1-20000301	3/1/2000	125	8	ND	
ITMW-1	ITMW-1-20000919	9/19/2000	30.7	7.45	< 10	U
ITMW-1	ITMW-1-20010327	3/27/2001	30	6	< 10	U
ITMW-1	ITMW-1-20010911	9/11/2001	27	9	< 10	U
ITMW-1	ITMW-1-20020910	9/10/2002	35	9	< 10	U
ITMW-1	ITMW-1-20030227	2/27/2003	29.6	7.14	< 10	U
ITMW-1	ITMW-1-20030923	9/23/2003	25	12	< 10	U
ITMW-1	ITMW-1-20040413	4/13/2004	42.2	11.1	< 10	U
ITMW-1	ITMW-1-20040921	9/21/2004	26	16.7	< 10	U
ITMW-1	ITMW-1-20040921-FD	9/21/2004	26.1	15.8	< 10	U
ITMW-1	ITMW-1-20050928	9/28/2005	34.7	11.3	< 10	U
ITMW-1	ITMW-1-20061014	10/14/2006	20	11	< 10	UJ
ITMW-1	ITMW-1-20070920	9/20/2007	18	13	< 10	U
ITMW-1	ITMW-1-20081209	12/9/2008	14	7.3	< 5	U
ITMW-1	ITMW-1-20111027	10/27/2011	17	8.2	< 5	U
ITMW-1	ITMW-1-20120418	4/18/2012	32	13	< 5	U
ITMW-1	ITMW-1-20121019	10/19/2012	10	8.3	< 0.11	U
ITMW-1	ITMW-1-20130424	4/24/2013	26	9.1	< 0.11	U
ITMW-1	ITMW-1-101513	10/15/2013	7.2	5.8	< 0.11	U
ITMW-1	ITMW-1-201403	3/8/2014	23.4	8.9	< 0.13	U
ITMW-1	ITMW-1-201405	5/13/2014	21.3	8.7	< 0.13	U
ITMW-1	DUP-5-201407	7/30/2014	9.2	5.7	< 0.50	U
ITMW-1	ITMW-1-201407	7/30/2014	8.9	5.4	< 0.50	U
ITMW-1	ITMW-1-201410	10/15/2014	6.1	4.5 J	< 0.50	U
ITMW-1	ITMW-1-201501	1/14/2015	22.7	9.7	< 0.50	U
ITMW-1	ITMW-1-201504	4/15/2015	19.2	9.7	< 0.50	U
ITMW-1	ITMW-1-201507	7/22/2015	10.5	5.3	< 0.13	U
ITMW-1	ITMW-1-201510	10/7/2015	7.8	4.4	< 0.13	U
ITMW-1	ITMW-1-201601	1/13/2016	19.9	8.9	< 0.13	U
ITMW-2	ITMW-2-19891001	10/1/1989	ND	NT	ND	
ITMW-2	ITMW-2-19891101	11/1/1989	ND	NT	ND	
ITMW-2	ITMW-2-19900101	1/1/1990	ND	NT	ND	
ITMW-2	ITMW-2-19900101-FD	1/1/1990	ND	NT	ND	
ITMW-2	ITMW-2-19910301	3/1/1991	ND	NT	ND	
ITMW-2	ITMW-2-19931101	11/1/1993	4	NT	ND	
ITMW-2	ITMW-2-19961201	12/1/1996	3.4	NT	ND	
ITMW-2	ITMW-2-20000301	3/1/2000	ND	ND	ND	
ITMW-2	ITMW-2-20000919	9/19/2000	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20010327	3/27/2001	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20010913	9/13/2001	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20020911	9/11/2002	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20030227	2/27/2003	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20030923	9/23/2003	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20040413	4/13/2004	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20040413-FD	4/13/2004	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20040921	9/21/2004	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20040921-FD	9/21/2004	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20050929	9/29/2005	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20061014	10/14/2006	4 J	< 5 U	< 10	U
ITMW-2	ITMW-2-20070920	9/20/2007	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20081209	12/9/2008	< 5 U	< 5 U	< 5	U
ITMW-2	ITMW-2-20101103	11/3/2010	< 5 U	< 5 U	< 5	U
ITMW-2	ITMW-2-20111026	10/26/2011	< 5 U	< 5 U	< 5	U
ITMW-2	ITMW-2-20120417	4/17/2012	< 5 U	< 5 U	< 5	U
ITMW-2	ITMW-2-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11	U
ITMW-2	ITMW-2-20130424	4/24/2013	< 1.6 U	< 0.56 U	< 0.11	U
ITMW-2	ITMW-2-101413	10/14/2013	< 1.6 U	< 0.56 U	< 0.11	U
ITMW-2	ITMW-2-201403	3/6/2014	0.23 J	0.40 J	< 0.13	U
ITMW-2	ITMW-2-201403-FD	3/6/2014	0.28 J	0.51 J	< 0.13	U
ITMW-2	ITMW-2-201405	5/13/2014	< 0.17 U	< 0.080 U	< 0.13	U
ITMW-2	ITMW-2-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50	U
ITMW-2	ITMW-2-201410	10/15/2014	< 0.50 U	< 0.50 U	< 0.50	U
ITMW-2	ITMW-2-201501	1/13/2015	< 0.50 U	< 0.50 U	< 0.50	U
ITMW-2	ITMW-2-201504	4/15/2015	< 0.50 U	< 0.50 U	< 0.50	U
ITMW-2	ITMW-2-201507	7/22/2015	0.24 J	0.26 J	< 0.13	U
ITMW-2	ITMW-2-201510	10/6/2015	0.22 J	0.21 J	< 0.13	U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
ITMW-2	ITMW-2-201601	1/12/2016	0.21 J	0.42 J	< 0.13 U
ITMW-3	ITMW-3-19891001	10/1/1989	ND	NT	ND
ITMW-3	ITMW-3-19900101	1/1/1990	ND	NT	ND
ITMW-3	ITMW-3-19931101	11/1/1993	3	NT	ND
ITMW-3	ITMW-3-19961201	12/1/1996	1.7	NT	ND
ITMW-3	ITMW-3-19990201	2/1/1999	ND	ND	ND
ITMW-3	ITMW-30-20000301-FD	3/1/2000	ND	ND	ND
ITMW-3	ITMW-3-20000301	3/1/2000	ND	ND	ND
ITMW-3	ITMW-3-20000919	9/19/2000	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20010327	3/27/2001	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20010911	9/11/2001	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20020910	9/10/2002	15	< 5 U	< 10 U
ITMW-3	ITMW-3-20030227	2/27/2003	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20030923	9/23/2003	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20040413	4/13/2004	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20040921	9/21/2004	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20050928	9/28/2005	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20061014	10/14/2006	< 5 U	< 5 U	< 10 UJ
ITMW-3	ITMW-3-20070920	9/20/2007	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20081209	12/9/2008	< 5 U	< 5 U	< 5 U
ITMW-3	ITMW-3-20101104	11/4/2010	190	3.9 J	< 5 U
ITMW-3	ITMW-3-20111027	10/27/2011	4.1 J	< 5 U	< 5 U
ITMW-3	ITMW-3-20120417	4/17/2012	< 5 U	< 5 U	< 5 U
ITMW-3	ITMW-3-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
ITMW-3	ITMW-3-20130423	4/23/2013	< 1.6 U	< 0.56 U	< 0.11 U
ITMW-3	ITMW-3-101513	10/15/2013	< 1.6 U	< 0.56 U	< 0.11 U
ITMW-4	ITMW-4-19891001	10/1/1989	ND	NT	ND
ITMW-4	ITMW-4-19891101	11/1/1989	ND	NT	ND
ITMW-4	ITMW-4-19900101	1/1/1990	ND	NT	ND
ITMW-4	ITMW-4-19931101	11/1/1993	ND	NT	ND
ITMW-4	ITMW-4-19961201	12/1/1996	75	NT	ND
ITMW-4	ITMW-4-19990201	2/1/1999	93	54	ND
ITMW-4	ITMW-4-20000301	3/1/2000	22	16	ND
ITMW-4	ITMW-4-20000920	9/20/2000	13.9	10.6	< 10 U
ITMW-4	ITMW-4-20010328	3/28/2001	9	< 5 U	< 10 U
ITMW-4	ITMW-4-20010913	9/13/2001	6	8	< 10 U
ITMW-4	ITMW-4-20020910	9/10/2002	9	< 5 U	< 10 U
ITMW-4	ITMW-4-20030228	2/28/2003	< 5 U	< 5 U	< 10 U
ITMW-4	ITMW-4-20030923	9/23/2003	< 5 U	< 5 U	< 10 U
ITMW-4	ITMW-4-20040414	4/14/2004	< 5 U	< 5 U	< 10 U
ITMW-4	ITMW-4-20040922	9/22/2004	< 5 U	< 5 U	< 10 U
ITMW-4	ITMW-4-20050927	9/27/2005	< 5 U	< 5 U	< 10 U
ITMW-4	ITMW-4-20061011	10/11/2006	6	8	< 10 U
ITMW-4	ITMW-4-20070920	9/20/2007	5 J	5 J	< 10 U
ITMW-4	ITMW-4-20081209	12/9/2008	< 5 U	3.2 J	< 5 U
ITMW-4	ITMW-4-20111025	10/25/2011	4.8 J	5.1	< 5 U
ITMW-4	ITMW-4-20121017	10/17/2012	3.3 J	4.5 J	7.9
ITMW-4	ITMW-4-101413	10/14/2013	3.7 J	6.1	< 0.11 U
ITMW-4	ITMW-4-201403	3/6/2014	1.4 J	2.0 J	0.19 J
ITMW-4	ITMW-4-201405	5/13/2014	2.0 J	2.1 J	0.18 J
ITMW-4	ITMW-4-201407	7/30/2014	2.8 J	4.6 J	< 0.50 U
ITMW-4	ITMW-4-201410	10/16/2014	3.4 J	4.9 J	< 0.50 U
ITMW-4	ITMW-4-201501	1/13/2015	1.7	2.3	< 0.50 U
ITMW-4	ITMW-4-201504	4/14/2015	1.6	2.6	0.84 J
ITMW-4	ITMW-4-201507	7/22/2015	2.0	2.6	0.17 J
ITMW-4	ITMW-4-201510	10/7/2015	2.3	2.8	0.23 J
ITMW-4	ITMW-4-201601	1/12/2016	1.5	2.5	< 0.13 U
ITMW-5	ITMW-5-19891001	10/1/1989	ND	NT	ND
ITMW-5	ITMW-5-19900101	1/1/1990	ND	NT	ND
ITMW-5	ITMW-5-19961201	12/1/1996	21	NT	ND
ITMW-5	ITMW-5-19990201	2/1/1999	86	39	ND
ITMW-5	ITMW-5-20000301	3/1/2000	73	59	ND
ITMW-5	ITMW-5-20000920	9/20/2000	85	64.4	< 10 U
ITMW-5	ITMW-5-20010328	3/28/2001	100	46	< 10 U
ITMW-5	ITMW-5-20010913	9/13/2001	72	64	< 10 U
ITMW-5	ITMW-5-20020910	9/10/2002	108	72	< 10 U
ITMW-5	ITMW-5-20030228	2/28/2003	90.4	68.7	< 10 U
ITMW-5	ITMW-5-20030924	9/24/2003	97.3	73.7	< 10 U
ITMW-5	ITMW-5-20040414	4/14/2004	83.9	55.4	< 10 U
ITMW-5	ITMW-5-20040922	9/22/2004	105	75.8	< 10 U
ITMW-5	ITMW-5-20050406	4/6/2005	93.2	72.6	< 10 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
ITMW-5	ITMW-5-20050406-FD	4/6/2005	87	71	< 10 U
ITMW-5	ITMW-5-20050928	9/28/2005	79	53.5	< 10 U
ITMW-5	ITMW-5-20050928-FD	9/28/2005	82.1	54.4	< 10 U
ITMW-5	ITMW-5-20060314	3/14/2006	92	66.1	< 10 U
ITMW-5	ITMW-5-20060314-FD	3/14/2006	98.4	66.1	< 10 U
ITMW-5	ITMW-5-20061010	10/10/2006	110	51	4 J
ITMW-5	ITMW-5-20070418	4/18/2007	115	39.3	< 10 U
ITMW-5	ITMW-5-20070920	9/20/2007	120	49	4 J
ITMW-5	ITMW-5-20080429	4/29/2008	120	43	< 10 U
ITMW-5	ITMW-5-20081209	12/9/2008	200 E	42	< 5 U
ITMW-5	ITMW-5-20090427	4/27/2009	160	34	< 5 U
ITMW-5	ITMW-5-20100511	5/11/2010	190 EF	40	< 5 U
ITMW-5	ITMW-5-20101106	11/6/2010	350	50	< 5 U
ITMW-5	ITMW-5-20110322	3/22/2011	370	39	< 5 U
ITMW-5	ITMW-5-20111025	10/25/2011	150	35	< 5 U
ITMW-5	ITMW-5-20120417	4/17/2012	290	26	< 5 U
ITMW-5	ITMW-5-20121018	10/18/2012	260	33	0.64 J
ITMW-5	ITMW-5-20130425	4/25/2013	220	20	0.50 J
ITMW-5	ITMW-5-101613	10/16/2013	260	27	0.55 J
ITMW-6	ITMW-6-19891001	10/1/1989	ND	NT	ND
ITMW-6	ITMW-6-19900101	1/1/1990	ND	NT	ND
ITMW-6	ITMW-6-19961201	12/1/1996	6.8	NT	ND
ITMW-6	ITMW-6-19970501	5/1/1997	7	ND	ND
ITMW-6	ITMW-6-19990201	2/1/1999	25	ND	ND
ITMW-6	ITMW-6-19990201-FD	2/1/1999	6	ND	ND
ITMW-6	ITMW-6-20000301	3/1/2000	ND	ND	ND
ITMW-6	ITMW-6-20000920	9/20/2000	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20010328	3/28/2001	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20010913	9/13/2001	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20020910	9/10/2002	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20020910-FD	9/10/2002	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20030227	2/27/2003	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20030924	9/24/2003	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20040414	4/14/2004	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20040922	9/22/2004	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20050928	9/28/2005	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20061011	10/11/2006	< 5 U	4 J	< 10 U
ITMW-6	ITMW-6-20070920	9/20/2007	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
ITMW-6	ITMW-6-20091028	10/28/2009	< 5 U	2.1 J	< 5 U
ITMW-6	ITMW-6-20100510	5/10/2010	< 5 U	1.9 J	< 5 U
ITMW-6	ITMW-6-20111025-FD	10/25/2011	< 5 U	2.7 J	< 5 U
ITMW-6	ITMW-6-20111025	10/25/2011	< 5 U	2.4 J	< 5 U
ITMW-6	ITMW-6-20120417	4/17/2012	< 5 U	2.9 J	< 5 U
ITMW-6	ITMW-6-20121017	10/17/2012	< 1.6 U	3.1 J	< 0.11 U
ITMW-6	ITMW-6-20130422	4/22/2013	< 1.6 U	2.1 J	0.33 J
ITMW-6	ITMW-6-101413	10/14/2013	3.4 J	5.5	0.18 J
ITMW-6	ITMW-6-201403	3/6/2014	2.7 J	4.9 J	0.18 J
ITMW-6	ITMW-6-201405	5/13/2014	3.6 J	5.3	0.17 J
ITMW-6	ITMW-6-201407	7/30/2014	4.4 J	6.7	< 0.50 U
ITMW-6	ITMW-6-201410	10/15/2014	3.1 J	5.2	< 0.50 U
ITMW-6	ITMW-6-201501	1/13/2015	3.7	5.7	< 0.50 U
ITMW-6	ITMW-6-201504	4/14/2015	3.7	5.3 J	< 0.50 U
ITMW-6	ITMW-6-201507	7/22/2015	4.7	6.3	0.31 J
ITMW-6	ITMW-6-201510	10/7/2015	3.1	5.5	0.21 J
ITMW-6	ITMW-6-201601	1/12/2016	4.2	6.2	0.32 J
ITMW-7	ITMW-7-19891101	11/1/1989	ND	NT	ND
ITMW-7	ITMW-7-19900101	1/1/1990	ND	NT	ND
ITMW-7	ITMW-7-19961201	12/1/1996	290	NT	3
ITMW-7	ITMW-7-19970501	5/1/1997	380	180	ND
ITMW-7	ITMW-7-19990201	2/1/1999	ND	ND	ND
ITMW-7	ITMW-7-19990601	6/1/1999	320	144	ND
ITMW-7	ITMW-7-19990601-FD	6/1/1999	300	140	ND
ITMW-7	ITMW-7-20000301	3/1/2000	262	100	ND
ITMW-7	ITMW-7-20000301-FD	3/1/2000	207	92	ND
ITMW-7	ITMW-7-20000919	9/19/2000	207	100	< 10 U
ITMW-7	ITMW-7-20000921-FD	9/21/2000	109	< 5 U	< 10 U
ITMW-7	ITMW-7-20010328	3/28/2001	161	66	< 10 U
ITMW-7	ITMW-7-20010913	9/13/2001	139	68	< 10 U
ITMW-7	ITMW-7-20020910	9/10/2002	137	56	< 10 U
ITMW-7	ITMW-7-20020910-FD	9/10/2002	128	54	< 10 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)	
ITMW-7	ITMW-7-20030227	2/27/2003	172	92.5	< 10	U
ITMW-7	ITMW-7-20030924	9/24/2003	125	57.3	< 10	U
ITMW-7	ITMW-7-20040414	4/14/2004	201	80.7	< 10	U
ITMW-7	ITMW-7-20040922	9/22/2004	132	48.4	< 10	U
ITMW-7	ITMW-7-20050407	4/7/2005	122	39	< 10	U
ITMW-7	ITMW-7-20050928	9/28/2005	100	30.5	< 10	U
ITMW-7	ITMW-7-20060314	3/14/2006	153	59.5	< 10	U
ITMW-7	ITMW-7-20061010	10/10/2006	140	44	1	J
ITMW-7	ITMW-7-20070417	4/17/2007	83	29.4	< 10	U
ITMW-7	ITMW-7-20070921	9/21/2007	72	22	< 10	U
ITMW-7	ITMW-7-20080430	4/30/2008	70	18	< 10	U
ITMW-7	ITMW-7-20081211	12/11/2008	66	19	< 5	U
ITMW-7	ITMW-7-20090427	4/27/2009	87	26	< 5	U
ITMW-7	ITMW-7-20091028	10/28/2009	60	20	< 5	U
ITMW-7	ITMW-7-20100510	5/10/2010	73	18	< 5	U
ITMW-7	ITMW-7-20110323	3/23/2011	225 EF	93.2	56.5	
ITMW-7	ITMW-7-20111025	10/25/2011	99	26	< 5	U
ITMW-7	ITMW-7-20120418	4/18/2012	100	20	< 5	U
ITMW-7	ITMW-7-20121018	10/18/2012	63	17	< 0.11	U
ITMW-7	ITMW-7-20130425	4/25/2013	69	16	0.27	J
ITMW-7	ITMW-7-101713	10/17/2013	47	12	< 0.11	U
ITMW-7	ITMW-7-201403	3/8/2014	37.4	10	0.24	J
ITMW-7	ITMW-7-201405	5/14/2014	37.0	11.1	0.22	J
ITMW-7	ITMW-7-201407	7/30/2014	36.7	11.2	< 0.50	U
ITMW-7	ITMW-7-201410	10/15/2014	33.7	10.3	< 0.50	U
ITMW-7	ITMW-7-201501	1/14/2015	34.7	10.5	< 0.50	U
ITMW-7	ITMW-7-201504	4/14/2015	29.3	9.2	< 0.50	U
ITMW-7	ITMW-7-201507	7/22/2015	26.4	8.3	0.19	J
ITMW-7	ITMW-7-201510	10/8/2015	27.6	8.8	0.19	J
ITMW-7	ITMW-7-201601	1/13/2016	44.2	13.0	0.23	J
ITMW-9	ITMW-9-19900101	1/1/1990	ND	NT	ND	
ITMW-9	ITMW-9-19961201	12/1/1996	230	NT	ND	
ITMW-9	ITMW-9-19970501	5/1/1997	7	ND	ND	
ITMW-9	ITMW-9-19990201	2/1/1999	40	24	ND	
ITMW-9	ITMW-9-20000301	3/1/2000	69	45	ND	
ITMW-9	ITMW-9-20000920	9/20/2000	57.3	14.3	< 10	U
ITMW-9	ITMW-9-20000920-FD	9/20/2000	54.8	14	< 10	U
ITMW-9	ITMW-9-20010328	3/28/2001	40	12	< 10	U
ITMW-9	ITMW-9-20010913	9/13/2001	40	12	< 10	U
ITMW-9	ITMW-9-20020910	9/10/2002	61	21	< 10	U
ITMW-9	ITMW-9-20030228	2/28/2003	54.2	37.2	< 10	U
ITMW-9	ITMW-9-20030923	9/23/2003	91	49.5	< 10	U
ITMW-9	ITMW-9-20030923-FD	9/23/2003	97.6	53.9	< 10	U
ITMW-9	ITMW-9-20040414	4/14/2004	71.8	38.8	< 10	U
ITMW-9	ITMW-9-20040922	9/22/2004	80.7	21.1	< 10	U
ITMW-9	ITMW-9-20050406	4/6/2005	79	30.4	< 10	U
ITMW-9	ITMW-9-20050927	9/27/2005	98.8	54.6	< 10	U
ITMW-9	ITMW-9-20060314	3/14/2006	101	78.7	< 10	U
ITMW-9	ITMW-9-20061011	10/11/2006	110	77	6	J
ITMW-9	ITMW-9-20070417	4/17/2007	79	39.6	< 10	U
ITMW-9	ITMW-9-20070920	9/20/2007	76	26	< 10	U
ITMW-9	ITMW-9-20080428	4/28/2008	82	37	< 10	U
ITMW-9	ITMW-9-20081209	12/9/2008	90	62	< 5	U
ITMW-9	ITMW-9-20090427	4/27/2009	110	51	< 5	U
ITMW-9	ITMW-9-20091027	10/27/2009	120	67	5.7	
ITMW-9	ITMW-9-20091027-FD	10/27/2009	120	71	6.1	
ITMW-9	ITMW-9-20100511	5/11/2010	130	38	< 5	U
ITMW-9	ITMW-9-20110322	3/22/2011	120	48	2.4	J
ITMW-9	ITMW-9-20111025	10/25/2011	90	57	< 5	U
ITMW-9	ITMW-9-20120417	4/17/2012	150	50	2.5	J
ITMW-9	ITMW-9-20121018	10/18/2012	120	53	5.2	
ITMW-9	ITMW-9-20130424	4/24/2013	140	44	1.6	J
ITMW-9	ITMW-9-101713	10/17/2013	83	42	16	
ITMW-9	ITMW-9-201403	3/8/2014	112	40.4	0.41	J
ITMW-9	ITMW-9-201405	5/14/2014	113	42.2	0.64	J
ITMW-9	DUP-6-201407	7/30/2014	143	43.9	0.54	J
ITMW-9	ITMW-9-201407	7/30/2014	141	44.4	0.53	J
ITMW-9	DUP-02-201410	10/15/2014	75.3	38.8	1.7	J
ITMW-9	ITMW-9-201410	10/15/2014	76.9	39.1	1.8	J
ITMW-9	DUP-02-201501	1/13/2015	89.4	39.1	1.4	
ITMW-9	ITMW-9-201501	1/13/2015	89.6	39.1	1.4	

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)	
ITMW-9	ITMW-9-201504	4/15/2015	100	35.4	< 0.50	U
ITMW-9	ITMW-9-201507	7/21/2015	142	35.5	0.40	J
ITMW-9	DUP-09-201510	10/7/2015	55.2	26.8	1.1	
ITMW-9	ITMW-9-201510	10/7/2015	55.6	26.6	1.0	
ITMW-9	DUP-04-201601	1/13/2016	91.3	34.1	1.1	
ITMW-9	ITMW-9-201601	1/13/2016	92.4	35.3	1.1	
ITMW-10	ITMW-10-19900101	1/1/1990	ND	NT	ND	
ITMW-10	ITMW-10-19961201	12/1/1996	4	NT	ND	
ITMW-10	ITMW-10-19990201	2/1/1999	25	13	ND	
ITMW-10	ITMW-10-20000301	3/1/2000	23	17	ND	
ITMW-10	ITMW-10-20000920	9/20/2000	18.1	15.9	< 10	U
ITMW-10	ITMW-10-20010328	3/28/2001	40	21	< 10	U
ITMW-10	ITMW-10-20010913	9/13/2001	29	28	< 10	U
ITMW-10	ITMW-10-20010913-FD	9/13/2001	30	27	< 10	U
ITMW-10	ITMW-10-20020910	9/10/2002	55	38	< 10	U
ITMW-10	ITMW-10-20030228	2/28/2003	57.6	50.9	< 10	U
ITMW-10	ITMW-10-20030716	7/16/2003	55.3	49.2	< 10	U
ITMW-10	ITMW-10-20030923	9/23/2003	65.9	56.5	< 10	U
ITMW-10	ITMW-10-20040414	4/14/2004	80	57.4	< 10	U
ITMW-10	ITMW-10-20040922	9/22/2004	59.6	50	< 10	U
ITMW-10	ITMW-10-20050406	4/6/2005	72.1	57.7	< 10	U
ITMW-10	ITMW-10-20050928	9/28/2005	57.6	41.6	< 10	U
ITMW-10	ITMW-10-20060314	3/14/2006	82	67.2	< 10	U
ITMW-10	ITMW-10-20061010	10/10/2006	88	54	5	J
ITMW-10	ITMW-10-20070417	4/17/2007	76	52.4	< 10	U
ITMW-10	ITMW-10-20070920	9/20/2007	67	48	5	J
ITMW-10	ITMW-10-20080428	4/28/2008	61	46	< 10	U
ITMW-10	ITMW-10-20081209	12/9/2008	78	50	< 5	U
ITMW-10	ITMW-10-20090427	4/27/2009	87	52	4.4	J
ITMW-10	ITMW-10-20091027	10/27/2009	110	50	4.2	J
ITMW-10	ITMW-10-20100511	5/11/2010	85	46	2.4	J
ITMW-10	ITMW-10-20110322	3/22/2011	92	42	2.7	J
ITMW-10	ITMW-10-20111025	10/25/2011	94	39	2.5	J
ITMW-10	ITMW-10-20121018	10/18/2012	100	37	2.5	
ITMW-10	ITMW-10-101513	10/15/2013	100	32	3.1	
ITMW-10	ITMW-10-201403	3/6/2014	166	32.3	1.2	J
ITMW-10	ITMW-10-201405	5/14/2014	184	32.4	1.4	J
ITMW-10	ITMW-10-201407	7/30/2014	273	38.3	1.8	J
ITMW-10	ITMW-10-201410	10/15/2014	243	32.3	1.7	J
ITMW-10	ITMW-10-201501	1/14/2015	403	38.9	1.4	
ITMW-10	ITMW-10-201504	4/15/2015	258	34.8	0.98	J
ITMW-10	DUP-08-201504	4/16/2015	303	36.1	1.2	
ITMW-10	DUP-01-201507	7/22/2015	501	36.7	1.5	
ITMW-10	ITMW-10-201507	7/22/2015	504	36.2	1.3	
ITMW-10	DUP-04-201510	10/7/2015	445	37.9	1.6	
ITMW-10	ITMW-10-201510	10/7/2015	437	37.5	1.5	
ITMW-10	DUP-01-201601	1/13/2016	735	45.5	1.7	
ITMW-10	ITMW-10-201601	1/13/2016	761	44.4	1.6	
ITMW-11	ITMW-11-19900101	1/1/1990	19000	NT	180	
ITMW-11	ITMW-11-19901101	11/1/1990	4700	NT	93	
ITMW-11	ITMW-11-19910201	2/1/1991	3400	NT	ND	
ITMW-11	ITMW-11-19931101	11/1/1993	2300	NT	43	
ITMW-11	ITMW-11-19961201	12/1/1996	510	NT	ND	
ITMW-11	ITMW-11-19990201	2/1/1999	650	10	ND	
ITMW-11	ITMW-11-20000301	3/1/2000	3370	206	ND	
ITMW-11	ITMW-11-20000919	9/19/2000	8030	327	11.7	
ITMW-11	ITMW-11-20010327	3/27/2001	7000	200	< 10	U
ITMW-11	ITMW-11-20010913	9/13/2001	6000	183	< 10	U
ITMW-11	ITMW-11-20011120	11/20/2001	< 5 U	< 5 U	< 10	U
ITMW-11	ITMW-11L-20020909	9/9/2002	7100	206	10	
ITMW-11	ITMW-11T-20020909	9/9/2002	800	72	< 10	U
ITMW-11	ITMW-11-20030226	2/26/2003	4110	346	58.8	
ITMW-11	ITMW-11-20030226-FD	2/26/2003	3630	306	60.7	
ITMW-11	ITMW-11-20030924	9/24/2003	3990	269	11.8	
ITMW-11	ITMW-11-20040413	4/13/2004	3160	240	37.8	
ITMW-11	ITMW-11-20040921	9/21/2004	3450	204	< 10	U
ITMW-11	ITMW-11-20050407	4/7/2005	4210	282	66.7	
ITMW-11	ITMW-11-20050929	9/29/2005	3910	199	18	
ITMW-11	ITMW-11-20060316	3/16/2006	14600	1290	482	
ITMW-11	ITMW-11-20060316-FD	3/16/2006	12800	1210	381	
ITMW-11	ITMW-11-20061013	10/13/2006	8000	340	47	

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
ITMW-11	ITMW-11-20070419	4/19/2007	3970	199	< 200 U
ITMW-11	ITMW-11-20070921	9/21/2007	7600	180	21
ITMW-11	ITMW-11-20080430	4/30/2008	4500	210	58
ITMW-11	ITMW-11-20081210	12/10/2008	5800	190	27
ITMW-11	ITMW-11-20090427	4/27/2009	2500	200	24
ITMW-11	ITMW-11-20100511-FD	5/11/2010	6200	290	28
ITMW-11	ITMW-11-20100511	5/11/2010	6200	290	45
ITMW-11	ITMW-11-20110323	3/23/2011	9700	520	130
ITMW-11	ITMW-11-20111026	10/26/2011	8800	310	16
ITMW-11	ITMW-11-20121019	10/19/2012	1400	34	2.4
ITMW-11	ITMW-11-101713	10/17/2013	180	8.7	2.9
ITMW-11	ITMW-11-201403	3/8/2014	2980	187 M1	22.5
ITMW-11	DUP-4-201405	5/15/2014	1470	107	4.9
ITMW-11	ITMW-11-201405	5/15/2014	1590	99.5	5.5
ITMW-11	ITMW-11-201407	7/31/2014	7380	156	6.9
ITMW-11	ITMW-11-201410	10/15/2014	2050	70.4	3.5
ITMW-11	ITMW-11-20141204	12/4/2014	1530	55.0	6.4
ITMW-11	ITMW-11-201501	1/15/2015	68.3	9.8	1.9
ITMW-11	ITMW-11-201504	4/15/2015	< 0.50 U	< 0.50 U	< 0.50 U
ITMW-11	ITMW-11-201507	7/22/2015	33.2	5.9	< 0.13 U
ITMW-11	ITMW-11-201510	10/7/2015	721	57.9	0.96 J
ITMW-11	DUP-03-201601	1/13/2016	2100	199	65.3
ITMW-11	ITMW-11-201601	1/13/2016	605	100	13.1
ITMW-12	ITMW-12-19901101	11/1/1990	2400	NT	140
ITMW-12	ITMW-12-19910201	2/1/1991	2100	NT	ND
ITMW-12	ITMW-12-19931101	11/1/1993	2500	NT	35
ITMW-12	ITMW-12-19961201	12/1/1996	1200	NT	ND
ITMW-12	ITMW-12-19990201	2/1/1999	3100	480	34
ITMW-12	ITMW-12-20000301	3/1/2000	3110	320	19
ITMW-12	ITMW-12-20000919	9/19/2000	3350	180	12
ITMW-12	ITMW-12-20010327	3/27/2001	3900	200	20
ITMW-12	ITMW-12-20010913	9/13/2001	3100	159	< 10 U
ITMW-12	ITMW-12-20011120	11/20/2001	2400	300	20
ITMW-12	ITMW-12-20020911	9/11/2002	4200	300	< 10 U
ITMW-12	ITMW-12-20030226	2/26/2003	3460	287	< 10 U
ITMW-12	ITMW-12-20030226-FD	2/26/2003	3940	308	< 10 U
ITMW-12	ITMW-12-20030924	9/24/2003	2920	242	< 10 U
ITMW-12	ITMW-12-20040413	4/13/2004	2410	245	< 10 U
ITMW-12	ITMW-12-20040921	9/21/2004	1780	238	< 10 U
ITMW-12	ITMW-12-20050929	9/29/2005	2120	273	< 10 U
ITMW-12	ITMW-12-20061013	10/13/2006	3500	310	9 J
ITMW-12	ITMW-12-20070921	9/21/2007	2100	220	< 10 U
ITMW-12	ITMW-12-20081209	12/9/2008	1500	180	< 5 U
ITMW-12	ITMW-12-20111026	10/26/2011	1600	230	1.8 J
ITMW-12	ITMW-12-20121019	10/19/2012	2500	200	3.6
ITMW-12	ITMW-12-101713	10/17/2013	2300	190	3.2
ITMW-12	ITMW-12-20131017-FD	10/17/2013	2300	160	4.1
ITMW-12	ITMW-12-201403	3/8/2014	1910	148	3.4
ITMW-12	ITMW-12-201403-FD	3/8/2014	2400	207	3.4
ITMW-12	ITMW-12-201405	5/14/2014	2740	164	14.0
ITMW-12	ITMW-12-201407	7/31/2014	2710	173	13.6
ITMW-12	DUP-04-201410	10/15/2014	2950	192	3.7
ITMW-12	ITMW-12-201410	10/15/2014	2570	188	3.5
ITMW-12	ITMW-12-20141204	12/4/2014	468	51.1	0.88 J
ITMW-12	DUP-04-201501	1/15/2015	59.3	4.8	< 0.50 U
ITMW-12	ITMW-12-201501	1/15/2015	57.1	4.2	< 0.50 U
ITMW-12	ITMW-12-201504	4/15/2015	2260	149	< 0.13 U
ITMW-12	ITMW-12-201507	7/23/2015	652	46.2	0.58 J
ITMW-12	ITMW-12-201510	10/7/2015	314	34.6	0.42 J
ITMW-12	ITMW-12-201601	1/13/2016	465	70.5	< 0.13 U
ITMW-13	ITMW-13-19901101	11/1/1990	34	NT	18
ITMW-13	ITMW-13-19910201	2/1/1991	32	NT	35
ITMW-13	ITMW-13-19931101	11/1/1993	NT	NT	29
ITMW-13	ITMW-13-19961201	12/1/1996	36	NT	36
ITMW-13	ITMW-13-19990201	2/1/1999	36	140	48
ITMW-13	ITMW-13-20000301	3/1/2000	37	121	53
ITMW-13	ITMW-13-20000919	9/19/2000	22.4	112	50.5
ITMW-13	ITMW-13-20010328	3/28/2001	44	92	40
ITMW-13	ITMW-13-20010913	9/13/2001	35	111	80
ITMW-13	ITMW-13L-20020909	9/9/2002	99	110	10
ITMW-13	ITMW-13T-20020909	9/9/2002	81	86	20

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)	
ITMW-13	ITMW-13-20030226	2/26/2003	70.2	85.5	< 10	U
ITMW-13	ITMW-13-20030924	9/24/2003	159	130	< 10	U
ITMW-13	ITMW-13-20040413	4/13/2004	48.4	87.2	< 10	U
ITMW-13	ITMW-13-20040921	9/21/2004	25.5	71.6	< 10	U
ITMW-13	ITMW-13-20050407	4/7/2005	71.8	103	< 10	U
ITMW-13	ITMW-13-20050930	9/30/2005	72.7	114	17.9	
ITMW-13	ITMW-13-20060316	3/16/2006	141	187	< 10	U
ITMW-13	ITMW-13-20061014	10/14/2006	100	150	17	
ITMW-13	ITMW-13-20070418	4/18/2007	83.1	78	4.3	J
ITMW-13	ITMW-13-20070920	9/20/2007	28	40	< 10	U
ITMW-13	ITMW-13-20080429	4/29/2008	69	72	< 10	U
ITMW-13	ITMW-13-20081210	12/10/2008	26	23	< 5	U
ITMW-13	ITMW-13-20090427	4/27/2009	79	78	< 5	U
ITMW-13	ITMW-13-20091027	10/27/2009	18	22	< 5	U
ITMW-13	ITMW-13-20100512	5/12/2010	97	72	< 5	U
ITMW-13	ITMW-13-20110323	3/23/2011	130	83	< 5	U
ITMW-13	ITMW-13-20111027-FD	10/27/2011	64	40	< 5	U
ITMW-13	ITMW-13-20111027	10/27/2011	65	41	< 5	U
ITMW-13	ITMW-13-20120419	4/19/2012	97	63	< 5	U
ITMW-13	ITMW-13-20121018	10/18/2012	400	260	1.0	J
ITMW-13	ITMW-13-20130425	4/25/2013	86	52	0.14	J
ITMW-13	ITMW-13-101613	10/16/2013	150	74	< 0.11	U
ITMW-13	ITMW-13-201403	3/8/2014	69.3	45.3	< 0.13	U
ITMW-13	ITMW-13-201405	5/14/2014	54.0	34.7	0.17	J
ITMW-13	ITMW-13-201407	7/30/2014	36.5	27.5	< 0.50	U
ITMW-13	ITMW-13-201410	10/15/2014	40.8	25.9	< 0.50	U
ITMW-13	ITMW-13-201501	1/14/2015	45.8	28.5	< 0.50	U
ITMW-13	ITMW-13-201504	4/15/2015	43.1	26.5	< 0.50	U
ITMW-13	DUP-03-201504	4/15/2015	47.7	26.7	< 0.50	U
ITMW-13	DUP-02-201507	7/22/2015	36.1	20.8	0.17	J
ITMW-13	ITMW-13-201507	7/22/2015	37.3	20.1	0.18	J
ITMW-13	DUP-01-201510	10/7/2015	25.5	17.6	0.18	J
ITMW-13	ITMW-13-201510	10/7/2015	29.9	17.8	0.20	J
ITMW-13	ITMW-13-201601	1/13/2016	47.6	26.7	0.17	J
ITMW-13	DUP-02-201601	1/13/2016	51.6	26.1	< 0.13	U
ITMW-14	ITMW-14-19901101	11/1/1990	ND	NT	13	
ITMW-14	ITMW-14-19910201	2/1/1991	ND	NT	ND	
ITMW-14	ITMW-14-19931101	11/1/1993	6	NT	ND	
ITMW-14	ITMW-14-19961201	12/1/1996	ND	NT	ND	
ITMW-14	ITMW-14-19990201	2/1/1999	ND	29	20	
ITMW-14	ITMW-14-20000301	3/1/2000	ND	24	12	
ITMW-14	ITMW-14-20000919	9/19/2000	< 5 U	13.6	< 10	U
ITMW-14	ITMW-14-20010327	3/27/2001	< 5 U	24	10	
ITMW-14	ITMW-14-20010913	9/13/2001	< 5 U	5	< 10	U
ITMW-14	ITMW-14-20020911	9/11/2002	41	6	< 10	U
ITMW-14	ITMW-14-20030226	2/26/2003	< 5 U	< 5 U	< 10	U
ITMW-14	ITMW-14-20030924	9/24/2003	< 5 U	< 5 U	< 10	U
ITMW-14	ITMW-14-20040413	4/13/2004	< 5 U	< 5 U	< 10	U
ITMW-14	ITMW-14-20040921	9/21/2004	< 5 U	< 5 U	< 10	U
ITMW-14	ITMW-14-20050930	9/30/2005	< 5 U	< 5 U	< 10	U
ITMW-14	ITMW-14-20061014	10/14/2006	4 J	8	< 10	UJ
ITMW-14	ITMW-14-20070921	9/21/2007	5 J	9	< 10	U
ITMW-14	ITMW-14-20081210	12/10/2008	5.7	9.3	< 5	U
ITMW-14	ITMW-14-20101104	11/4/2010	110	14	< 5	U
ITMW-14	ITMW-14-20111027	10/27/2011	6.3	11	< 5	U
ITMW-14	ITMW-14-20120419	4/19/2012	7.6	16	< 5	U
ITMW-14	ITMW-14-20121019	10/19/2012	5.4	11	< 0.11	U
ITMW-14	ITMW-14-20130425	4/25/2013	6.8	14	< 0.11	U
ITMW-14	ITMW-14-101613	10/16/2013	2.9 J	4.9 J	< 0.11	U
ITMW-14	ITMW-14-201403	3/8/2014	6.1	11.9	< 0.13	U
ITMW-14	ITMW-14-201405	5/14/2014	5.3	11.3	< 0.13	U
ITMW-14	ITMW-14-201407	7/30/2014	4.0 J	9.2	< 0.50	U
ITMW-14	ITMW-14-201410	10/15/2014	4.1 J	9.4	< 0.50	U
ITMW-14	ITMW-14-201501	1/14/2015	4.9	11.5	< 0.50	U
ITMW-14	ITMW-14-201504	4/15/2015	5.0	10.7	< 0.50	U
ITMW-14	ITMW-14-201507	7/22/2015	4.3	9.6	< 0.13	U
ITMW-14	ITMW-14-201510	10/7/2015	4.6	9.8	< 0.13	U
ITMW-14	ITMW-14-201601	1/12/2016	4.3	10	< 0.13	U
ITMW-15	ITMW-15-19901101	11/1/1990	2500	NT	55	
ITMW-15	ITMW-15-19910201	2/1/1991	1700	NT	ND	
ITMW-15	ITMW-15-19910415	4/15/1991	2000	NT	ND	

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)	
ITMW-15	ITMW-15-19910419	4/19/1991	2100	NT	ND	
ITMW-15	ITMW-15-19910420	4/20/1991	2400	NT	ND	
ITMW-15	ITMW-15-19931101	11/1/1993	4300	NT	10	
ITMW-15	ITMW-15-19961201	12/1/1996	240	NT	ND	
ITMW-15	ITMW-15-19990201	2/1/1999	400	120	ND	
ITMW-15	ITMW-15-20000301	3/1/2000	339	97	ND	
ITMW-15	ITMW-15-20000919	9/19/2000	362	92.7	< 10	U
ITMW-15	ITMW-15-20000919-FD	9/19/2000	376	91	< 10	U
ITMW-15	ITMW-15-20010328	3/28/2001	290	57	< 10	U
ITMW-15	ITMW-15-20010913	9/13/2001	380	87	< 10	U
ITMW-15	ITMW-15-20010913-FD	9/13/2001	370	80	< 10	U
ITMW-15	ITMW-15-20011120	11/20/2001	157	30	< 10	U
ITMW-15	ITMW-15-20020911	9/11/2002	320	75	< 10	U
ITMW-15	ITMW-15-20030226	2/26/2003	301	98.7	< 10	U
ITMW-15	ITMW-15-20030925	9/25/2003	490	91.9	< 10	U
ITMW-15	ITMW-15-20040414	4/14/2004	334	126	< 10	U
ITMW-15	ITMW-15-20040921	9/21/2004	774	118	< 10	U
ITMW-15	ITMW-15-20050407	4/7/2005	685	133	< 10	U
ITMW-15	ITMW-15-20050929	9/29/2005	862	189	< 10	U
ITMW-15	ITMW-15-20060316	3/16/2006	908	183	12	
ITMW-15	ITMW-15-20061013	10/13/2006	680	140	7	J
ITMW-15	ITMW-15-20070419	4/19/2007	591	110	8.5	J
ITMW-15	ITMW-15-20070921	9/21/2007	1000	190	27	
ITMW-15	ITMW-15-20080429	4/29/2008	100	18	< 10	U
ITMW-15	ITMW-15-20081210	12/10/2008	1100	150	< 5	U
ITMW-15	ITMW-15-20090427	4/27/2009	2800	130	17	
ITMW-15	ITMW-15-20100511	5/11/2010	2800	160	11	
ITMW-15	ITMW-15-20111026	10/26/2011	1100	74	< 5	U
ITMW-15	ITMW-15-20121019	10/19/2012	240	14	1.1	J
ITMW-15	ITMW-15-101613	10/16/2013	2800	170	14	
ITMW-15	ITMW-15-201403	3/8/2014	1630	152	11.6	
ITMW-15	DUP2-201405	5/14/2014	899	61.7	4.4	
ITMW-15	ITMW-15-201405	5/14/2014	729	60.7	4.1	
ITMW-15	DUP-4-201407	7/30/2014	1850	82.8	3.0	
ITMW-15	ITMW-15-201407	7/30/2014	1820	82.5	3.1	
ITMW-15	DUP-05-201410	10/16/2014	1660	66.4	1.8	J
ITMW-15	ITMW-15-201410	10/16/2014	1490	63.0	2.0	
ITMW-15	ITMW-15-20141205	12/5/2014	63.0	< 0.50 U	< 0.50	U
ITMW-15	DUP-05-201501	1/15/2015	61.7	3.8	< 0.50	U
ITMW-15	ITMW-15-201501	1/15/2015	56.5	2.9	< 0.50	U
ITMW-15	ITMW-15-201504	4/15/2015	101	7.5	< 0.50	U
ITMW-15	ITMW-15-201507	7/22/2015	110	22.4	1.3	
ITMW-15	ITMW-15-201510	10/8/2015	38.9	2.4	< 0.13	U
ITMW-15	ITMW-15-201601	1/13/2016	797	67.0	4.9	
ITMW-16	ITMW-16-19910201	2/1/1991	31	NT	ND	
ITMW-16	ITMW-16-19931101	11/1/1993	41	NT	7	
ITMW-16	ITMW-16-19961201	12/1/1996	ND	NT	ND	
ITMW-16	ITMW-16-19990201	2/1/1999	ND	ND	ND	
ITMW-16	ITMW-16-20000301	3/1/2000	7	ND	ND	
ITMW-16	ITMW-16-20000921	9/21/2000	< 5 U	< 5 U	< 10	U
ITMW-16	ITMW-16-20010326	3/26/2001	< 5 U	< 5 U	< 10	U
ITMW-16	ITMW-16-20010913	9/13/2001	< 5 U	< 5 U	< 10	U
ITMW-16	ITMW-16-20020911	9/11/2002	< 5 U	< 5 U	< 10	U
ITMW-16	ITMW-16-20030227	2/27/2003	< 5 U	< 5 U	< 10	U
ITMW-16	ITMW-16-20030925	9/25/2003	< 5 U	< 5 U	< 10	U
ITMW-16	ITMW-16-20040415	4/15/2004	< 5 U	< 5 U	< 10	U
ITMW-16	ITMW-16-20040923	9/23/2004	< 5 U	< 5 U	< 10	U
ITMW-16	ITMW-16-20050929	9/29/2005	< 5 U	< 5 U	< 10	U
ITMW-16	ITMW-16-20050929-FD	9/29/2005	< 5 U	< 5 U	< 10	U
ITMW-16	ITMW-16-20061014	10/14/2006	< 5 U	< 5 U	< 10	U
ITMW-16	ITMW-16-20070920	9/20/2007	< 5 U	< 5 U	< 10	U
ITMW-16	ITMW-16-20081210	12/10/2008	< 5 U	< 5 U	< 5	U
ITMW-16	ITMW-16-20101106	11/6/2010	17	< 5 U	< 5	U
ITMW-16	ITMW-16-20111027	10/27/2011	< 5 U	< 5 U	< 5	U
ITMW-16	ITMW-16-20120418	4/18/2012	< 5 U	< 5 U	< 5	U
ITMW-16	ITMW-16-20121018	10/18/2012	< 1.6 U	< 0.56 U	< 0.11	U
ITMW-16	ITMW-16-20130424	4/24/2013	< 1.6 U	< 0.56 U	< 0.11	U
ITMW-16	ITMW-16-101613	10/16/2013	< 1.6 U	< 0.56 U	< 0.11	U
ITMW-16	ITMW-16-201403	3/7/2014	0.30 J	< 0.080 U	< 0.13	U
ITMW-16	ITMW-16-201405	5/13/2014	< 0.17 U	< 0.080 U	< 0.13	U
ITMW-16	ITMW-16-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50	U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
ITMW-16	ITMW-16-201410	10/15/2014	< 0.50 U	< 0.50 U	< 0.50 U
ITMW-16	ITMW-16-201501	1/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
ITMW-16	ITMW-16-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
ITMW-16	ITMW-16-201507	7/22/2015	< 0.17 U	< 0.080 U	< 0.13 U
ITMW-16	ITMW-16-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
ITMW-16	ITMW-16-201601	1/13/2016	< 0.17 U	< 0.080 U	< 0.13 U
ITMW-17	ITMW-17-19910201	2/1/1991	21000	NT	ND
ITMW-17	ITMW-17-19910415	4/15/1991	21000	NT	ND
ITMW-17	ITMW-17-19910424	4/24/1991	21000	NT	ND
ITMW-17	ITMW-17-19931101	11/1/1993	18000	NT	15
ITMW-17	ITMW-17-19961201	12/1/1996	9300	NT	ND
ITMW-17	ITMW-17-19990201	2/1/1999	11000	240	ND
ITMW-17	ITMW-17-20000301	3/1/2000	6780	171	ND
ITMW-17	ITMW-17-20000919	9/19/2000	5500	180	< 10 U
ITMW-17	ITMW-17-20010105	1/5/2001	8310	179	< 10 U
ITMW-17	ITMW-17-20010328	3/28/2001	6700	134	< 10 U
ITMW-17	ITMW-17-20010913	9/13/2001	6300	158	< 10 U
ITMW-17	ITMW-17-20020911	9/11/2002	6500	153	< 10 U
ITMW-17	ITMW-17-20030226	2/26/2003	4380	134	< 10 U
ITMW-17	ITMW-17-20030925	9/25/2003	6090	136	< 10 U
ITMW-17	ITMW-17-20040414	4/14/2004	5050	184	< 10 U
ITMW-17	ITMW-17-20040414-FD	4/14/2004	4920	182	< 10 U
ITMW-17	ITMW-17-20040921	9/21/2004	5760	156	< 10 U
ITMW-17	ITMW-17-20050407	4/7/2005	5750	156	< 10 U
ITMW-17	ITMW-17-20050929	9/29/2005	5460	111	< 10 U
ITMW-17	ITMW-17-20060315	3/15/2006	15900	211 E	26.3
ITMW-17	ITMW-17-20061012	10/12/2006	19000	220	21
ITMW-17	ITMW-17-20070418	4/18/2007	13000	298	< 10 U
ITMW-17	ITMW-17-20070921	9/21/2007	11000	210	3 J
ITMW-17	ITMW-17-20080429	4/29/2008	6200	140	< 10 U
ITMW-17	ITMW-17-20081210	12/10/2008	5600	130	< 5 U
ITMW-17	ITMW-17-20090427	4/27/2009	5200	130	< 5 U
ITMW-17	ITMW-17-20100511	5/11/2010	4500	85	< 5 U
ITMW-17	ITMW-17-20101104	11/4/2010	5400	110	< 5 U
ITMW-17	ITMW-17-20110322	3/22/2011	5300	100	< 5 U
ITMW-17	ITMW-17-20111026	10/26/2011	4500	98	< 5 U
ITMW-17	ITMW-17-20120419	4/19/2012	4700	110	< 5 U
ITMW-17	ITMW-17-20121019	10/19/2012	3500	100	0.48 J
ITMW-17	ITMW-17-20130425	4/25/2013	5600	130	0.90 J
ITMW-17	ITMW-17-101713	10/17/2013	4800	79	< 0.11 U
ITMW-17	ITMW-17-201403	3/8/2014	3770	86.1	0.57 J
ITMW-17	ITMW-17-201403-FD	3/8/2014	4040	87.3	0.74 J
ITMW-17	DUP-3-201405	5/15/2014	3370	88.5	1.1 J
ITMW-17	ITMW-17-201405	5/15/2014	3630	82.9	1.3 J
ITMW-17	ITMW-17-201407	7/30/2014	2260	64.7	< 0.50 U
ITMW-17	ITMW-17-201410	10/16/2014	3510	70.5	3.2
ITMW-17	ITMW-17-20141205	12/5/2014	4630	210 J	7.7
ITMW-17	ITMW-17-201501	1/15/2015	3840	110	1.5
ITMW-17	ITMW-17-201504	4/15/2015	3920	142	< 0.13 U
ITMW-17	ITMW-17-201507	7/22/2015	5350	116	0.51 J
ITMW-17	ITMW-17-201510	10/8/2015	3970	77.2	2.5
ITMW-17	ITMW-17-201601	1/13/2016	2600	44.7	2.2
ITMW-18	ITMW-18-19910201	2/1/1991	3700	NT	ND
ITMW-18	ITMW-18-19931101	11/1/1993	4500	NT	6
ITMW-18	ITMW-18-19961201	12/1/1996	1600	NT	ND
ITMW-18	ITMW-18-19990201	2/1/1999	6300	480	ND
ITMW-18	ITMW-18-20000301	3/1/2000	3560	401	ND
ITMW-18	ITMW-18-20000919	9/19/2000	4080	409	< 10 U
ITMW-18	ITMW-18-20010327	3/27/2001	4000	400	< 10 U
ITMW-18	ITMW-18-20010327-FD	3/27/2001	4200	370	< 100 U
ITMW-18	ITMW-18-20010911	9/11/2001	4100	300	< 10 U
ITMW-18	ITMW-18-20020911	9/11/2002	6700	300	< 10 U
ITMW-18	ITMW-18-20030226	2/26/2003	5110	290	< 10 U
ITMW-18	ITMW-18-20030924	9/24/2003	7700	415	< 10 U
ITMW-18	ITMW-18-20040413	4/13/2004	7740	410	< 10 U
ITMW-18	ITMW-18-20040921	9/21/2004	7050	380	< 10 U
ITMW-18	ITMW-18-20050408	4/8/2005	7080	389	< 10 U
ITMW-18	ITMW-18-20050929	9/29/2005	4660	241	< 10 U
ITMW-18	ITMW-18-20060315	3/15/2006	5750	373	< 50 U
ITMW-18	ITMW-18-20061013	10/13/2006	6600	300	< 10 U
ITMW-18	ITMW-18-20070418	4/18/2007	15000	387	< 10 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
ITMW-18	ITMW-18-20070921	9/21/2007	8300	310	< 100 U
ITMW-18	ITMW-18-20080430	4/30/2008	9000	350	< 10 U
ITMW-18	ITMW-18-20081209	12/9/2008	7200	320	< 5 U
ITMW-18	ITMW-18-20090427	4/27/2009	7100	320	< 5 U
ITMW-18	ITMW-18-20091027	10/27/2009	7800	360	< 5 U
ITMW-18	ITMW-18-20100511	5/11/2010	11000	360	< 5 U
ITMW-18	ITMW-18-20111026	10/26/2011	8500	290	< 5 U
ITMW-18	ITMW-18-20120419	4/19/2012	9800	360	2.9 J
ITMW-18	ITMW-18-20121019	10/19/2012	7600	260	1.2 J
ITMW-18	ITMW-18-20130425	4/25/2013	7200	270	0.90 J
ITMW-18	ITMW-18-101713	10/17/2013	7000	280	0.64 J
ITMW-18	ITMW-18-201403	3/8/2014	9380	285	< 6.5 U
ITMW-18	ITMW-18-201403-FD	3/8/2014	8550	242 J	1.7 J
ITMW-18	DUP-5-201405	5/15/2014	2500	108	< 0.13 U
ITMW-18	ITMW-18-201405	5/15/2014	2940	101	< 0.13 U
ITMW-18	ITMW-18-201407	7/31/2014	5360	139	1.6 J
ITMW-18	ITMW-18-201410	10/15/2014	3540	68.5	< 0.50 U
ITMW-18	ITMW-18-20141204	12/4/2014	3690	74.3	< 0.50 U
ITMW-18	ITMW-18-201501	1/15/2015	488	26.5	< 0.50 U
ITMW-18	DUP-04-201504	4/16/2015	42.8	1.7	< 0.50 U
ITMW-18	ITMW-18-201504	4/16/2015	43.5	1.6	< 0.50 U
ITMW-18	DUP-07-201507	7/23/2015	24.7	0.81 J	< 0.13 U
ITMW-18	ITMW-18-201507	7/23/2015	22.9	0.69 J	< 0.13 U
ITMW-18	DUP-06-201510	10/8/2015	12.4	0.41 J	< 0.13 U
ITMW-18	ITMW-18-201510	10/8/2015	12.9	0.40 J	< 0.13 U
ITMW-18	ITMW-18-201601	1/13/2016	48.8	4.6	< 0.13 U
ITMW-19	ITMW-19-19910201	2/1/1991	9900	NT	ND
ITMW-19	ITMW-19-19931101	11/1/1993	27000	NT	7
ITMW-19	ITMW-19-19961201	12/1/1996	25000	NT	ND
ITMW-19	ITMW-19-19990201	2/1/1999	33000	150	ND
ITMW-19	ITMW-19-20000301	3/1/2000	33100	128	ND
ITMW-19	ITMW-19-20000919	9/19/2000	35700	197	< 10 U
ITMW-19	ITMW-19-20010105	1/5/2001	34000	166	< 10 U
ITMW-19	ITMW-19-20010328	3/28/2001	38000	119	< 10 U
ITMW-19	ITMW-19-20010913	9/13/2001	19000	132	< 10 U
ITMW-19	ITMW-19-20020911	9/11/2002	27000	167	< 10 U
ITMW-19	ITMW-19-20030226	2/26/2003	16200	126	< 10 U
ITMW-19	ITMW-19-20030924	9/24/2003	27300	186	< 10 U
ITMW-19	ITMW-19-20040413	4/13/2004	19400	186	< 10 U
ITMW-19	ITMW-19-20040921	9/21/2004	20000	148	< 10 U
ITMW-19	ITMW-19-20050407	4/7/2005	18300	146	< 10 U
ITMW-19	ITMW-19-20050407-FD	4/7/2005	16200	145	< 10 U
ITMW-19	ITMW-19-20050929	9/29/2005	25700	144	< 10 U
ITMW-19	ITMW-19-20060315	3/15/2006	21300	177	< 100 U
ITMW-19	ITMW-19-20061012	10/12/2006	16000	150	2 J
ITMW-19	ITMW-19-20070418	4/18/2007	20000	131	< 10 U
ITMW-19	ITMW-19-20070921	9/21/2007	19000	110	< 200 U
ITMW-19	ITMW-19-20080429	4/29/2008	17000	98	< 100 U
ITMW-19	ITMW-19-20081210	12/10/2008	11000	93	< 5 U
ITMW-19	ITMW-19-20090427	4/27/2009	13000	100	< 5 U
ITMW-19	ITMW-19-20100511	5/11/2010	19000	130	< 5 U
ITMW-19	ITMW-19-20101104-FD	11/4/2010	19000	150	< 5 U
ITMW-19	ITMW-19-20101104	11/4/2010	18000	140	< 5 U
ITMW-19	ITMW-19-20110322	3/22/2011	16000	110	1 J
ITMW-19	ITMW-19-20111026	10/26/2011	17000	120	< 5 U
ITMW-19	ITMW-19-20120419-FD	4/19/2012	15000	110	< 5 U
ITMW-19	ITMW-19-20120419	4/19/2012	18000	110	< 5 U
ITMW-19	ITMW-19-20121019	10/19/2012	15000	110	0.89 J
ITMW-19	ITMW-19-20130425	4/25/2013	13000	110	0.57 J
ITMW-19	ITMW-19-101813	10/18/2013	16000	91 J	< 0.11 U
ITMW-19	ITMW-19-10182013-FD	10/18/2013	14000	100 J	< 0.11 U
ITMW-19	ITMW-19-201403	3/8/2014	8850	66.7	0.57 J
ITMW-19	ITMW-19-201403-FD	3/8/2014	8270	60.8 J	< 6.5 U
ITMW-19	DUP-6-201405	5/15/2014	15300 J	67.2	0.87 J
ITMW-19	ITMW-19-201405	5/15/2014	9780 J	65.8	0.85 J
ITMW-19	ITMW-19-201407	7/31/2014	13300	85.5	0.96 J
ITMW-19	ITMW-19-201410	10/16/2014	12800	76.7	1.9 J
ITMW-19	ITMW-19-20141205	12/5/2014	33.5	< 0.50 U	< 0.50 U
ITMW-19	ITMW-19-201501	1/15/2015	17.4	< 0.50 U	< 0.50 U
ITMW-19	ITMW-19-201504	4/15/2015	594	2.2	< 0.50 U
ITMW-19	ITMW-19-201507	7/23/2015	15.2	< 0.080 U	< 0.13 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
ITMW-19	ITMW-19-201510	10/8/2015	87.1	0.41 J	< 0.13 U
ITMW-19	ITMW-19-201601	1/13/2016	336	1.2	< 0.13 U
ITMW-20	ITMW-20-19910301	3/1/1991	ND	NT	ND
ITMW-20	ITMW-20-19931101	11/1/1993	ND	NT	ND
ITMW-20	ITMW-20-19961201	12/1/1996	290	NT	ND
ITMW-20	ITMW-20-19970501	5/1/1997	ND	ND	ND
ITMW-20	ITMW-20-19990201	2/1/1999	ND	ND	ND
ITMW-20	ITMW-20-20000301	3/1/2000	ND	ND	ND
ITMW-20	MW-20-20000921-FS	9/21/2000	< 5 U	< 5 U	< 10 U
ITMW-20	MW-20-20010327-FS	3/27/2001	< 5 U	< 5 U	< 10 U
ITMW-20	MW-20-20010911-FS	9/11/2001	21	< 5 U	< 10 U
ITMW-20	ITMW-20-20020910	9/10/2002	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20030227	2/27/2003	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20030924	9/24/2003	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20040414	4/14/2004	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20040922	9/22/2004	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20050929	9/29/2005	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20061012	10/12/2006	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
ITMW-20	ITMW-20-20091029	10/29/2009	< 5 U	< 5 U	< 5 U
ITMW-20	ITMW-20-20100512	5/12/2010	< 5 U	< 5 U	< 5 U
ITMW-20	ITMW-20-20101105	11/5/2010	15	< 5 U	< 5 U
ITMW-20	ITMW-20-20111026-FD	10/26/2011	< 5 U	< 5 U	< 5 U
ITMW-20	ITMW-20-20111026	10/26/2011	< 5 U	< 5 U	< 5 U
ITMW-20	ITMW-20-20120418	4/18/2012	< 5 U	< 5 U	< 5 U
ITMW-20	ITMW-20-20121018	10/18/2012	< 1.6 U	< 0.56 U	< 0.11 U
ITMW-20	ITMW-20-20130423	4/23/2013	< 1.6 U	< 0.56 U	< 0.11 U
ITMW-20	ITMW-20-101413	10/14/2013	< 1.6 U	< 0.56 U	< 0.11 U
ITMW-20	ITMW-20-201403	3/5/2014	< 0.17 U	< 0.080 U	0.15 J
ITMW-20	ITMW-20-201405	5/12/2014	0.21 J	< 0.080 U	< 0.13 U
ITMW-20	ITMW-20-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50 U
ITMW-20	ITMW-20-201410	10/15/2014	< 0.50 U	< 0.50 U	< 0.50 U
ITMW-20	ITMW-20-201501	1/12/2015	< 0.50 U	< 0.50 U	< 0.50
ITMW-20	ITMW-20-201504	4/13/2015	< 0.50 U	< 0.50 U	< 0.50
ITMW-20	ITMW-20-201507	7/22/2015	0.20 J	< 0.080 U	< 0.13 U
ITMW-20	ITMW-20-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
ITMW-20	ITMW-20-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
ITMW-21	ITMW-21-19910301	3/1/1991	21	NT	ND
ITMW-21	ITMW-21-19931101	11/1/1993	37	NT	ND
ITMW-21	ITMW-21-19961201	12/1/1996	150	NT	ND
ITMW-21	ITMW-21-19990201	2/1/1999	190	ND	ND
ITMW-21	ITMW-21-20000301	3/1/2000	196	ND	ND
ITMW-21	ITMW-21-20000919	9/19/2000	192	< 5 U	< 10 U
ITMW-21	ITMW-21-20010328	3/28/2001	123	< 5 U	< 10 U
ITMW-21	ITMW-21-20010913	9/13/2001	116	< 5 U	< 10 U
ITMW-21	ITMW-21-20020910	9/10/2002	13	< 5 U	< 10 U
ITMW-21	ITMW-21-20030226	2/26/2003	39.5	< 5 U	< 10 U
ITMW-21	ITMW-21-20030923	9/23/2003	9.09	< 5 U	< 10 U
ITMW-21	ITMW-21-20040414	4/14/2004	52.9	< 5 U	< 10 U
ITMW-21	ITMW-21-20040922	9/22/2004	7.8	< 5 U	< 10 U
ITMW-21	ITMW-21-20050928	9/28/2005	6.45	< 5 U	< 10 U
ITMW-21	ITMW-21-20061012	10/12/2006	9	< 5 U	< 10 U
ITMW-21	ITMW-21-20070921	9/21/2007	10	< 5 U	< 10 U
ITMW-21	ITMW-21-20081209	12/9/2008	15	< 5 U	< 5 U
ITMW-21	ITMW-21-20091027	10/27/2009	14	< 5 U	< 5 U
ITMW-21	ITMW-21-20101104	11/4/2010	1100	4.4 J	< 5 U
ITMW-21	ITMW-21-20110322	3/22/2011	24	< 5 U	< 5 U
ITMW-21	ITMW-21-20111025	10/25/2011	11	< 5 U	< 5 U
ITMW-21	ITMW-21-20120417	4/17/2012	30	< 5 U	< 5 U
ITMW-21	ITMW-21-20121019	10/19/2012	7.7	< 0.56 U	< 0.11 U
ITMW-21	ITMW-21-20130424	4/24/2013	18	< 0.56 U	< 0.11 U
ITMW-21	ITMW-21-101513	10/15/2013	20	< 0.56 U	< 0.11 U
ITMW-21	ITMW-21-201403	3/6/2014	14.8	< 0.080 U	< 0.13 U
ITMW-21	ITMW-21-201405	5/14/2014	17.6	< 0.080 U	< 0.13 U
ITMW-21	DUP-3-201407	7/30/2014	9.3	< 0.50 U	< 0.50 U
ITMW-21	ITMW-21-201407	7/30/2014	9.4	< 0.50 U	< 0.50 U
ITMW-21	ITMW-21-201410	10/15/2014	6.0	< 0.50 U	< 0.50 U
ITMW-21	ITMW-21-201501	1/14/2015	10.8	< 0.50 U	< 0.50 U
ITMW-21	ITMW-21-201504	4/14/2015	12.7	< 0.50 U	< 0.50 U
ITMW-21	ITMW-21-201507	7/22/2015	7.6	0.20 J	< 0.13 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
ITMW-21	ITMW-21-201510	10/8/2015	7.2	0.29 J	< 0.13 U
ITMW-21	ITMW-21-201601	1/13/2016	9.8	0.27 J	< 0.13 U
IW-72	IW-72-20090116	1/16/2009	27	< 5 U	< 5 U
IW-72	IW-72-20090423	4/23/2009	40	< 5 U	< 5 U
IW-72	IW-72-20090508	5/8/2009	40	< 5 U	< 5 U
IW-72	IW-72-20110303-FS	3/3/2011	3.1 J	< 0.56 U	< 0.85 U
IW-72	IW-72-20110519-FS	5/19/2011	< 1.6 U	< 0.56 U	NT
IW-72	IW-72-20111024	10/24/2011	< 5 U	< 5 U	< 5 U
IW-72	IW-72-20120417	4/17/2012	3.8 J	< 5 U	< 5 U
IW-72	IW-72-20121019	10/19/2012	< 1.6 U	< 0.56 U	< 0.11 U
IW-72	IW-72-20130424	4/24/2013	< 1.6 U	< 0.56 U	< 0.11 U
IW-72	IW-72-101513	10/15/2013	< 1.6 U	< 0.56 U	< 0.11 U
IW-72	IW-72-201403	3/6/2014	< 0.17 U	< 0.080 U	< 0.13 U
IW-72	IW-72-201405	5/12/2014	< 0.17 U	< 0.080 U	< 0.13 U
IW-72	IW-72-201407	7/29/2014	< 0.50 U	< 0.50 U	< 0.50 U
IW-72	IW-72-201410	10/13/2014	< 0.50 U	< 0.50 U	< 0.50 U
IW-72	IW-72-201501	1/12/2015	< 0.50 U	< 0.50 U	< 0.50 U
IW-72	IW-72-201504	4/15/2015	< 0.50 U	< 0.50 U	< 0.50 U
IW-72	IW-72-201507	7/20/2015	0.48 J	< 0.080 U	< 0.13 U
IW-72	IW-72-201510	10/6/2015	0.74 J	< 0.080 U	< 0.13 U
IW-72	IW-72-201601	1/12/2016	1.4	< 0.080 U	< 0.13 U
IW-73	IW-73-20090423	4/23/2009	400	16	< 5 U
IW-73	IW-73-20110519-FS	5/19/2011	160	3.6 J	NT
IW-73	IW-73-20111025	10/25/2011	250	4.9 J	< 5 U
IW-73	IW-73-20120417	4/17/2012	180	5.8	< 5 U
IW-73	IW-73-20121020	10/20/2012	170	7.0	< 0.11 U
IW-73	IW-73-20130424	4/24/2013	200	6.5	< 0.11 U
IW-73	IW-73-20130424-FD	4/24/2013	180	6.4	< 0.11 U
IW-73	IW-73-101513	10/15/2013	140	47	6.3
IW-73	IW-73-201403	3/7/2014	183	20.9	4.6
IW-73	IW-73-201405	5/14/2014	31.9	0.81 J	< 0.13 U
IW-73	IW-73-201407	7/29/2014	138	24.3	26.1
IW-73	IW-73-201410	10/14/2014	8.5	0.84 J	1.1 J
IW-73	IW-73-201501	1/14/2015	70.8	6.3	4.1
IW-73	IW-73-201504	4/15/2015	96.8	6.8	1.6
IW-73	IW-73-201507	7/21/2015	143	9.0	1.5
IW-73	IW-73-201510	10/6/2015	154	7.8	0.59 J
IW-73	IW-73-201601	1/12/2016	103	4.3	0.24 J
IW-74	IW-74-20090423	4/23/2009	260	8.1	< 5 U
IW-74	IW-74-20110519-FS	5/19/2011	74	< 0.56 U	NT
IW-74	IW-74-20111025	10/25/2011	150	3.1 J	< 5 U
IW-74	IW-74-20120417	4/17/2012	130	2.4 J	< 5 U
IW-74	IW-74-20121020	10/20/2012	160	3.4 J	< 0.11 U
IW-74	IW-74-20130424	4/24/2013	160	4.8 J	< 0.11 U
IW-74	IW-74-101513	10/15/2013	190	5.7	< 0.11 U
IW-74	IW-74-201403	3/7/2014	135	4.3 J	1.5 J
IW-74	IW-74-201403-FD	3/7/2014	151	4.5 J	2.2
IW-74	IW-74-201405	5/14/2014	169	4.3 J	0.80 J
IW-74	IW-74-201407	7/29/2014	177	5.8	0.91 J
IW-74	DUP-01-201410	10/14/2014	143	3.3 J	< 0.50 U
IW-74	IW-74-201410	10/14/2014	144	3.3 J	< 0.50 U
IW-74	DUP-01-201501	1/14/2015	139	3.5	< 0.50 U
IW-74	IW-74-201501	1/14/2015	141	3.8	< 0.50 U
IW-74	DUP-05-201504	4/15/2015	153	4.8	< 0.50 U
IW-74	IW-74-201504	4/15/2015	147	5.0	< 0.50 U
IW-74	DUP-08-201507	7/21/2015	168	4.2	1.3
IW-74	IW-74-201507	7/21/2015	168	4.6	1.4
IW-74	DUP-10-201510	10/7/2015	122	3.8	0.33 J
IW-74	IW-74-201510	10/7/2015	121	3.8	0.36 J
IW-74	DUP-05-201601	1/12/2016	135	3.3	0.18 J
IW-74	IW-74-201601	1/12/2016	135	3.2	0.17 J
IW-75	IW-75-20090116	1/16/2009	140	2.4 J	< 5 U
IW-75	IW-75-20111025	10/25/2011	< 5 U	< 5 U	< 5 U
IW-75	IW-75-20120417	4/17/2012	2.9 J	< 5 U	< 5 U
IW-75	IW-75-20121018	10/18/2012	< 1.6 U	< 0.56 U	< 0.11 U
IW-75	IW-75-101513	10/15/2013	< 1.6 U	< 0.56 U	< 0.11 U
IW-76	IW-76-20090423	4/23/2009	730	28	< 5 U
IW-76	IW-76-20090507	5/7/2009	460	28	< 5 U
IW-76	IW-76-20110304-FS	3/4/2011	380	11	< 0.85 U
IW-76	IW-76-20110523-FS	5/23/2011	460	12	NT
IW-76	IW-76-20111025	10/25/2011	130	2.2 J	< 5 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
IW-76	IW-76-20120417	4/17/2012	400	8.9	< 5 U
IW-76	IW-76-20121020	10/20/2012	610	16	< 0.11 U
IW-76	IW-76-20130424	4/24/2013	420	13	0.39 J
IW-76	IW-76-101513	10/15/2013	450	8.7	< 0.11 U
IW-76	IW-76-201403	3/8/2014	127	1.5 J	< 0.13 U
IW-76	IW-76-201405	5/14/2014	10.3	< 0.080 U	< 0.13 U
IW-76	IW-76-201407	7/29/2014	319	2.7 J	< 0.50
IW-76	IW-76-201410	10/15/2014	214	6.7	< 0.50 U
IW-76	IW-76-201501	1/14/2015	288	8.8	< 0.50 U
IW-76	IW-76-201504	4/15/2015	354	11.2	< 0.50 U
IW-76	IW-76-201507	7/21/2015	323	7.3	< 0.13 U
IW-76	IW-76-201510	10/6/2015	106	1.6	< 0.13 U
IW-76	IW-76-201601	1/12/2016	80.2 J	1.9	< 0.13 U
IW-77	IW-77-20090423	4/23/2009	570	20	< 5 U
IW-77	IW-77-20090507	5/7/2009	300	17	< 5 U
IW-77	IW-77-20090527	5/27/2009	250	13	< 5 U
IW-77	IW-77-20091028	10/28/2009	380	13	< 5 U
IW-77	IW-77-20091221-FS	12/21/2009	250	12	< 1.6 U
IW-77	IW-77-20100513	5/13/2010	260	11	< 5 U
IW-77	IW-77-20101105	11/5/2010	1400	41	< 5 U
IW-77	IW-77-20110304-FS	3/4/2011	430	14	< 0.85 U
IW-77	IW-77-20110523-FS	5/23/2011	440	15	NT
IW-77	IW-77-20111025	10/25/2011	1400	32	< 5 U
IW-77	IW-77-20120417-FD	4/17/2012	520	20	< 5 U
IW-77	IW-77-20120417	4/17/2012	510	23	< 5 U
IW-77	IW-77-20121019	10/19/2012	1000	32	0.65 J
IW-77	IW-77-20130424	4/24/2013	530	21	< 0.11 U
IW-77	IW-77-101613	10/16/2013	1000	39	1.6 J
IW-77	IW-77-20131016-FD	10/16/2013	990	39	0.49 J
IW-77	IW-77-201403	3/8/2014	546	24.4	0.22 J
IW-77	IW-77-201405	5/14/2014	1460	36.0	0.66 J
IW-77	20140709-GW-IW-77	7/9/2014	1200	21.1	< 0.50 U
IW-77	IW-77-201407	7/29/2014	1540	35.2	< 0.50 U
IW-77	IW-77-201410	10/15/2014	741	15.8	< 0.50 U
IW-77	IW-77-20141023	10/23/2014	554	11.9	< 0.50 U
IW-77	IW-77-201501	1/14/2015	201	4.8	< 0.50 U
IW-77	IW-77-201504	4/14/2015	153	2.9	< 0.50 U
IW-77	IW-77-201507	7/21/2015	130	2.4	< 0.13 U
IW-77	IW-77-201510	10/8/2015	24.3	0.54 J	< 0.13 U
IW-77	IW-77-201511	11/5/2015	95.1	1.1	< 0.13 U
IW-77	IW-77-201601	1/11/2016	95.3	1.3	< 0.13 U
IW-78	IW-78-20111025	10/25/2011	350	12	< 5 U
IW-78	IW-78-20120418	4/18/2012	120	2.3 J	< 5 U
IW-78	IW-78-20121020	10/20/2012	310	8.7	< 0.11 U
IW-78	IW-78-20130424	4/24/2013	7.0	< 0.56 U	< 0.11 U
IW-78	IW-78-101713	10/17/2013	190	4.6 J	< 0.11 U
IW-78	IW-78-201405	5/28/2014	255	6.2	< 0.13 U
IW-78	IW-78-201409	9/11/2014	39.6	1.2 J	< 0.50 U
IW-78	IW-78-201601	1/11/2016	1.5	< 0.080 U	< 0.13 U
IW-79	IW-79-20111025	10/25/2011	570	13	< 5 U
IW-79	IW-79-20120417	4/17/2012	430	2.1 J	< 5 U
IW-79	IW-79-20121020	10/20/2012	670	20	0.45 J
IW-79	IW-79-20121020-FD	10/20/2012	480	16	< 0.11 U
IW-79	IW-79-20130424	4/24/2013	420	9.0	< 0.11 U
IW-79	IW-79-101713	10/17/2013	440	12	< 0.11 U
IW-79	IW-79-201405	5/28/2014	426	6.9	< 0.13 U
IW-79	IW-79-201409	9/11/2014	105	1.8 J	< 0.50 U
IW-79	IW-79-201601	1/11/2016	70.0	1.4	< 0.13 U
IW-80	IW-80-20090423	4/23/2009	170	4 J	< 5 U
IW-80	IW-80-20090507	5/7/2009	69	< 5 U	< 5 U
IW-80	IW-80-20110519-FS	5/19/2011	27	< 0.56 U	NT
IW-80	IW-80-20111025	10/25/2011	9.7	< 5 U	< 5 U
IW-80	IW-80-20120417	4/17/2012	55	2.2 J	< 5 U
IW-80	IW-80-20121019	10/19/2012	48	< 0.56 U	< 0.11 U
IW-80	IW-80-20130424	4/24/2013	40	< 0.56 U	< 0.11 U
IW-80	IW-80-101713	10/17/2013	58	2.4 J	< 0.11 U
IW-80	IW-80-20131017-FD	10/17/2013	62	2.4 J	< 0.11 U
IW-80	IW-80-201403	3/8/2014	79.1 J	2.7 J	< 0.13 U
IW-80	IW-80-201405	5/13/2014	24.2	< 0.080 U	< 0.13 U
IW-80	IW-80-201407	7/30/2014	25.6	0.85 J	< 0.50 U
IW-80	IW-80-201410	10/14/2014	11.8	< 0.50 U	< 0.50 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
IW-80	IW-80-201501	1/13/2015	7.1	< 0.50 U	< 0.50 U
IW-80	IW-80-201504	4/14/2015	9.2	< 0.50 U	< 0.50 U
IW-80	IW-80-201507	7/21/2015	12.5	0.39 J	< 0.13 U
IW-80	IW-80-201510	10/6/2015	10.6	0.37 J	< 0.13 U
IW-80	IW-80-201511	11/5/2015	11.0	< 0.080 U	< 0.13 U
IW-80	IW-80-201601	1/7/2016	4.2	< 0.080 U	< 0.13 U
IW-101	IW-101-20140323	3/23/2014	314	7.5	0.21 J
IW-101	IW-101-20140430	4/30/2014	794	18.9	< 0.13 U
IW-101	IW-101-20140523	5/23/2014	509	11.2	< 0.13 U
IW-101	20140708-GW-IW-101	7/8/2014	150	4.5 J	< 0.50 U
IW-101	IW-101-201409	9/12/2014	139	3.4 J	< 0.50 U
IW-101	IW-101-201601	1/7/2016	42.9	1.1	< 0.13 U
IW-102	IW-102-20140323	3/23/2014	685	14.6	0.45 J
IW-102	IW-102-20140430	4/30/2014	239	5.4	< 0.13 U
IW-103	IW-103-20140323	3/23/2014	692	13.1	0.76 J
IW-103	IW-103-20140430	4/30/2014	729	22.8	0.83 J
IW-104	IW-104-20140323	3/23/2014	637	13.5	0.69 J
IW-104	IW-104-20140430	4/30/2014	527	12.6	< 0.13 U
IW-105	IW-105-20140323	3/23/2014	901	14.4	0.54 J
IW-105	IW-105-20140430	4/30/2014	185	4.9 J	< 0.13 U
IW-106	IW-106-20140323	3/23/2014	198	4.2 J	< 2 U
IW-106	IW-106-20140430	4/30/2014	163	6.8	< 0.13 U
IW-106	IW-106-20140523	5/23/2014	132	2.6 J	< 0.13 U
IW-107	IW-107-20140323	3/23/2014	198	4.3 J	0.14 J
IW-107	IW-107-20140430	4/30/2014	110	3.3 J	< 0.13 U
IW-108	IW-108-20140323	3/23/2014	1280	27.8	0.83 J
IW-108	IW-108-20140429	4/29/2014	72.1	4.1 J	< 0.13 U
IW-108	IW-108-20140523	5/23/2014	59.0	1.5 J	< 0.13 U
IW-109	IW-109-20140323	3/23/2014	362	7.4	0.23 J
IW-109	IW-109-20140429	4/29/2014	91.2	2.5 J	< 0.13 U
IW-109	IW-109-20140523	5/23/2014	110	1.9 J	< 0.13 U
IW-110	IW-110-20140323	3/23/2014	464	9.8	0.5 J
IW-110	IW-110	4/16/2014	397	9.4	0.17 J
IW-110	IW-110-20140430	4/30/2014	268	8.2	0.33 J
IW-111	IW-111-20140323	3/23/2014	704	14	0.63 J
IW-111	IW-111-20140429	4/29/2014	260	6.4	< 0.13 U
IW-112	IW-112-20140323	3/23/2014	219	4.9 J	0.23 J
IW-112	IW-112	4/16/2014	200	4.8 J	< 0.13 U
IW-112	IW-112-20140430	4/30/2014	104	3.8 J	< 0.13 U
IW-113	IW-113-20140324	3/24/2014	510	11.1	0.43 J
IW-113	IW-113	4/14/2014	435	8.7	< 0.13 U
IW-114	IW-114-20140324	3/24/2014	397	9.7	0.25 J
IW-114	IW-114	4/14/2014	336	8.1	< 0.13 U
IW-115	IW-115-20140324	3/24/2014	622	14	0.25 J
IW-115	IW-115-20140407	4/7/2014	455	9.1 J	< 1.3 U
IW-115	IW-115	4/14/2014	449	9.3	< 0.13 U
IW-115	IW-115-201405	5/28/2014	504	11.2	0.27 J
IW-115	20140709-GW-IW-115	7/9/2014	352	7.4	< 0.50 U
IW-115	IW-115-201409	9/11/2014	355	8.0	< 0.50 U
IW-115	IW-115-201601	1/11/2016	169	3.6	< 0.13 U
IW-116	IW-116-20140324	3/24/2014	486	10.9	0.33 J
IW-116	IW-116	4/15/2014	546	10.8	0.34 J
IW-117	IW-117-20140324	3/24/2014	384	9.1	0.23 J
IW-117	IW-117	4/15/2014	384	9.9	< 0.13 U
IW-118	IW-118-20140324	3/24/2014	496	11.6	0.34 J
IW-118	IW-118	4/15/2014	395	9.7	< 0.13 U
IW-118	IW-118-201405	5/28/2014	437	9.3	< 0.13 U
IW-119	IW-119-20140324	3/24/2014	524	11.5	0.33 J
IW-119	IW-119-20140407	4/7/2014	478	9.1 J	< 1.3 U
IW-119	IW-119	4/15/2014	509	11.3	< 0.13 U
IW-120	IW-120-20140324	3/24/2014	289	7.9	0.14 J
IW-120	IW-120	4/15/2014	390	10.2	< 0.13 U
IW-121	IW-121-20140324	3/24/2014	402	8.9 J	< 10 U
IW-121	IW-121	4/15/2014	445	11.7	< 0.13 U
IW-122	IW-122-20140324	3/24/2014	473	11.5	0.29 J
IW-122	IW-122	4/15/2014	384	10.0	< 0.13 U
IW-123	IW-123-20140324	3/24/2014	532	12.2	0.40 J
IW-123	IW-123-20140407	4/7/2014	539	8.8 J	< 1.3 U
IW-123	IW-123	4/15/2014	488	10.0	< 0.13 U
IW-124	IW-124-20140324	3/24/2014	455	6.8 J	< 10 U
IW-124	IW-124	4/15/2014	448	8.7	0.26 J

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
IW-125	IW-125-20140325	3/25/2014	2140	207	3.1
IW-125	IW-125-201405	5/29/2014	17.1	2.9 J	< 0.13 U
IW-125	IW-125-201409	9/11/2014	7.3	1.0 J	< 0.50 U
IW-126	IW-126-20140325	3/25/2014	2020	197	10.4
IW-126	IW-126-201405	5/29/2014	787	59.1	< 0.13 U
IW-127	IW-127-20140324	3/24/2014	3700	219 J	7.6
IW-127	IW-127-201405	5/29/2014	639	34.7	< 0.13 U
IW-127	IW-127-201409	9/11/2014	1020	38.5	2.6
IW-127	IW-127-20141204	12/4/2014	182	7.2	< 0.50 U
IW-128	IW-128-20140325	3/25/2014	2980	178	11.7
IW-128	IW-128-20140429	4/29/2014	1250	68.4	4.9
IW-128	IW-128-201405	5/29/2014	1190	62.7	< 0.13 U
IW-129	IW-129-20140325	3/25/2014	2540	192	< 0.13 U
IW-129	IW-129-201405	5/29/2014	25.8	1.8 J	< 0.13 U
IW-130	IW-130-20140323	3/23/2014	358	7.6 J	< 10 U
IW-130	IW-130-20140523	5/23/2014	75.5	0.78 J	< 0.13 U
IW-131	IW-131-20140324	3/24/2014	526	11.5	0.35 J
IW-131	IW-131-20140430	4/30/2014	318	8.5	0.31 J
IW-131	IW-131-201405	5/28/2014	443	8.8	0.30 J
IW-132	IW-132-20141023	10/23/2014	714	3.5 J	< 0.50 U
IW-135	IW-135-20141023	10/23/2014	3840	43.3	2.0
IW-141	IW-141-20141023	10/23/2014	368000	< 1000 U	82.6
IW-141	IW-141-20141205	12/5/2014	46300	232 E	31.0
IW-143	IW-143-20141023	10/23/2014	13100	44.8	2.5
IW-147	IW-147-20141023	10/23/2014	199000	1640 J	< 1000 U
IW-147	IW-147-20141205	12/5/2014	91600	1420 J	176
IW-152	IW-152-20141022	10/22/2014	17600	224 J	8.2
IW-152	IW-152-20141204	12/4/2014	< 0.50 U	< 0.50 U	< 0.50 U
IW-153	IW-153-20141023	10/23/2014	293	85.3	12.3
IW-153	IW-153-20141204	12/4/2014	1.6 J	< 0.50 U	< 0.50 U
IW-155	IW-155-20141023	10/23/2014	14600	36.4	5.8
IW-157	IW-157-20141023	10/23/2014	74200	712 J	195
IW-157	IW-157-20141205	12/5/2014	31700	391 E	66.8
IW-169	IW-169-20141022	10/22/2014	163	1.7 J	< 0.50 U
MW-22	MW-22-19961201	12/1/1996	ND	NT	ND
MW-22	MW-22-19970501	5/1/1997	ND	5	ND
MW-22	MW-22-19990201	2/1/1999	ND	5	ND
MW-22	MW-22-20000301	3/1/2000	ND	ND	ND
MW-22	MW-22-20000919	9/19/2000	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20010327	3/27/2001	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20010913	9/13/2001	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20020910	9/10/2002	9	< 5 U	< 10 U
MW-22	MW-22-20030227	2/27/2003	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20030923	9/23/2003	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20030923-FD	9/23/2003	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20040413	4/13/2004	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20040921	9/21/2004	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20050930	9/30/2005	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20061014	10/14/2006	< 5 U	< 5 U	< 10 UJ
MW-22	MW-22-20070920	9/20/2007	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20081209	12/9/2008	< 5 U	< 5 U	< 5 U
MW-22	MW-22-20091027	10/27/2009	< 5 U	< 5 U	< 5 U
MW-22	MW-22-20101103	11/3/2010	< 5 U	< 5 U	< 5 U
MW-22	MW-22-20111027	10/27/2011	2.1 J	< 5 U	< 5 U
MW-22	MW-22-20120418	4/18/2012	< 5 U	< 5 U	< 5 U
MW-22	MW-22-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-22	MW-22-20130423	4/23/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-22	MW-22-101413	10/14/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-22	MW-22-201403	3/5/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-22	MW-22-201405	5/12/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-22	MW-22-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-22	MW-22-201410	10/15/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-22	MW-22-201501	1/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-22	MW-22-201504	4/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-22	MW-22-201507	7/22/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-22	MW-22-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-22	MW-22-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-23	MW-23-19961201	12/1/1996	210	NT	ND
MW-23	MW-23-19970501	5/1/1997	2400	NT	ND
MW-23	MW-23-19990201	2/1/1999	350	10	ND
MW-23	MW-23-19990201-FD	2/1/1999	440	10	ND

TABLE 7
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Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-23	MW-23-20000301-FD	3/1/2000	147	ND	ND
MW-23	ITMW-23-20000921	9/21/2000	67	< 5 U	< 10 U
MW-23	ITMW-23-20010105	1/5/2001	137	< 5 U	< 10 U
MW-23	ITMW-23-20010326	3/26/2001	87	< 5 U	< 10 U
MW-23	ITMW-23-20010911	9/11/2001	23	< 5 U	< 10 U
MW-23	ITMW-23-20020911	9/11/2002	111	< 5 U	< 10 U
MW-23	MW-23-20020911-FD	9/11/2002	105	< 5 U	< 10 U
MW-23	ITMW-23-20030227	2/27/2003	54	< 5 U	< 10 U
MW-23	ITMW-23-20030925	9/25/2003	83.9	< 5 U	< 10 U
MW-23	ITMW-23-20040415	4/15/2004	70.3	< 5 U	< 10 U
MW-23	ITMW-23-20040922	9/22/2004	73.4	< 5 U	< 10 U
MW-23	ITMW-23-20050405	4/5/2005	55.5	< 5 U	< 10 U
MW-23	ITMW-23-20050929	9/29/2005	65.8	< 5 U	< 10 U
MW-23	ITMW-23-20060317	3/17/2006	47.1	< 5 U	< 10 U
MW-23	ITMW-23-20061014	10/14/2006	59	< 5 U	< 10 UJ
MW-23	ITMW-23-20070419	4/19/2007	39.9	9.79	< 10 U
MW-23	ITMW-23-20070919	9/19/2007	47	< 5 U	< 10 U
MW-23	ITMW-23-20080429	4/29/2008	29	< 5 U	< 10 U
MW-23	ITMW-23-20081210	12/10/2008	69	< 5 U	< 5 U
MW-23	ITMW-23-20090427	4/27/2009	32	< 5 U	< 5 U
MW-23	ITMW-23-20091029	10/29/2009	45	< 5 U	< 5 U
MW-23	MW-23-20100512-FD	5/12/2010	55	< 5 U	< 5 U
MW-23	ITMW-23-20100512	5/12/2010	52	< 5 U	< 5 U
MW-23	ITMW-23-20101105	11/5/2010	76	< 5 U	< 5 U
MW-23	ITMW-23-20110323	3/23/2011	46	< 5 U	< 5 U
MW-23	ITMW-23-20111027	10/27/2011	41	< 5 U	< 5 U
MW-23	ITMW-23-20120418	4/18/2012	36	< 5 U	< 5 U
MW-23	ITMW-23-20121019	10/19/2012	43	< 0.56 U	< 0.11 U
MW-23	ITMW-23-20130425	4/25/2013	20	< 0.56 U	< 0.11 U
MW-23	MW-23-101613	10/16/2013	54	< 0.56 U	< 0.11 U
MW-23	MW-23-20140522	5/22/2014	22.8	< 0.080 U	< 0.13 U
MW-23	20140708-GW-MW-23	7/8/2014	27.8	0.68 J	< 0.50 U
MW-23	MW-23-201409	9/12/2014	62.1	1.8 J	< 0.50 U
MW-23	MW-23-20141023	10/23/2014	189	3.5 J	< 0.50 U
MW-23	MW-23-201501	1/15/2015	115	2.2	< 0.50 U
MW-23	MW-23-201504	4/14/2015	57.5	1.1	< 0.50 U
MW-23	MW-23-201507	7/23/2015	37.8	0.95 J	< 0.13 U
MW-23	MW-23-201510	10/8/2015	0.65 J	< 0.080 U	< 0.13 U
MW-23	MW-23-201511	11/5/2015	0.40 J	< 0.080 U	< 0.13 U
MW-23	MW-23-201601	1/7/2016	0.48 J	< 0.080 U	< 0.13 U
MW-24	MW-24-19990201	2/1/1999	1400	49	ND
MW-24	MW-24-20000301	3/1/2000	403	25	ND
MW-24	MW-24-20000301-FD	3/1/2000	595	24	ND
MW-24	MW-24-20000921	9/21/2000	128	11	< 10 U
MW-24	MW-24-20010105	1/5/2001	247	12	< 10 U
MW-24	MW-24-20010326	3/26/2001	330	11	< 10 U
MW-24	MW-24-20010911	9/11/2001	124	6	< 10 U
MW-24	MW-24-20020911	9/11/2002	199	6	< 10 U
MW-24	MW-24-20030227	2/27/2003	253	7.01	< 10 U
MW-24	MW-24-20030925	9/25/2003	155	< 5 U	< 10 U
MW-24	MW-24-20040415	4/15/2004	181	5.12	< 10 U
MW-24	MW-24-20040923	9/23/2004	116	< 5 U	< 10 U
MW-24	MW-24-20050406	4/6/2005	152	6.04	< 10 U
MW-24	MW-24-20050929	9/29/2005	161	< 5 U	< 10 U
MW-24	MW-24-20060316	3/16/2006	347	7.57	< 10 U
MW-24	MW-24-20061014	10/14/2006	620	11	2 J
MW-24	MW-24-20070419	4/19/2007	196	11.6	< 10 U
MW-24	MW-24-20070920	9/20/2007	140	< 5 U	< 10 U
MW-24	MW-24-20070920-FD	9/20/2007	150	< 5 U	< 10 U
MW-24	MW-24-20080429	4/29/2008	150	3 J	< 10 U
MW-24	MW-24-20081210	12/10/2008	150	3.4 J	< 5 U
MW-24	MW-24-20081210-FD	12/10/2008	130	3.4 J	< 5 U
MW-24	MW-24-20090427	4/27/2009	120	< 5 U	< 5 U
MW-24	MW-24-20091029	10/29/2009	110	2.6 J	< 5 U
MW-24	MW-24-20100512	5/12/2010	150	4.3 J	< 5 U
MW-24	MW-24-20110323	3/23/2011	170	3.6 J	< 5 U
MW-24	MW-24-20111027	10/27/2011	170	1.9 J	< 5 U
MW-24	MW-24-20111027-FD	10/27/2011	170	1.4 J	< 5 U
MW-24	MW-24-20120418	4/18/2012	150	2.9 J	< 5 U
MW-24	MW-24-20121019	10/19/2012	190	3.7 J	< 0.11 U
MW-24	MW-24-20130425	4/25/2013	110	3.5 J	0.23 J

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-24	MW-24-20140522	5/22/2014	79.7	1.2 J	< 0.13 U
MW-24	20140708-GW-MW-24	7/8/2014	102	1.4 J	< 0.50 U
MW-24	MW-24-201409	9/12/2014	55.7	0.66 J	< 0.50 U
MW-24	MW-24-20141023	10/23/2014	33.1	< 0.50 U	< 0.50 U
MW-24	MW-24-201501	1/15/2015	26.9	< 0.50 U	< 0.50 U
MW-24	MW-24-201504	4/16/2015	18.8	< 0.50 U	< 0.50 U
MW-24	MW-24-201507	7/23/2015	178	3.1	< 0.13 U
MW-24	MW-24-201510	10/8/2015	44.1	0.83 J	< 0.13 U
MW-24	MW-24-201511	11/5/2015	75.8	0.20 J	< 0.13 U
MW-24	MW-24-201601	1/7/2016	49.3	0.48 J	< 0.13 U
MW-25	MW-25-19990201	2/1/1999	29000	170	100
MW-25	MW-25-19990201-FD	2/1/1999	27000	180	110
MW-25	MW-25-19991201	12/1/1999	94500	ND	ND
MW-25	MW-25-20000301	3/1/2000	35900	245	63
MW-25	MW-25-20000921	9/21/2000	59000	300	50
MW-25	MW-25-20010328	3/28/2001	34000	117	60
MW-25	MW-25-20010913	9/13/2001	60000	300	< 200 U
MW-25	MW-25L-20020909	9/9/2002	157000	440	180
MW-25	MW-25T-20020909	9/9/2002	56000	370	200
MW-25	MW-25-20030226	2/26/2003	45900	557	75.7
MW-25	MW-25-20030717	7/17/2003	62200	621	243
MW-25	MW-25-20030924	9/24/2003	103000	775	< 500 U
MW-25	MW-25-20040414	4/14/2004	25600	255	31.8
MW-25	MW-25-20040921	9/21/2004	85200	819	422
MW-25	MW-25-20050407	4/7/2005	21100	353	61.1
MW-25	MW-25-20050928	9/28/2005	136000	837	< 500 U
MW-25	MW-25-20060315	3/15/2006	36300	774	< 200 U
MW-25	MW-25-20061012	10/12/2006	64000	1300	610
MW-25	MW-25-20061012-FD	10/12/2006	65000	1400	600
MW-25	MW-25-20070418	4/18/2007	19000	321	20
MW-25	MW-25-20070418-FD	4/18/2007	18000	319	20
MW-25	MW-25-20070921	9/21/2007	54000	1200	800
MW-25	MW-25-20070921-FD	9/21/2007	55000	1200	780
MW-25	MW-25-20080429	4/29/2008	23000	470	10 J
MW-25	MW-25-20080429-FD	4/29/2008	25000	510	10 J
MW-25	MW-25-20081210	12/10/2008	100000	1200	430
MW-25	MW-25-20090427	4/27/2009	36000	2100	140
MW-25	MW-25-20090427-FD	4/27/2009	39000	2000	190
MW-25	MW-25-20091027	10/27/2009	140000	1500	570
MW-25	MW-25-20100511	5/11/2010	81000	1400	11
MW-25	MW-25-20101104	11/4/2010	270000	1500	400
MW-25	MW-25-20110322	3/22/2011	57000	2400	34
MW-25	MW-25-20111026	10/26/2011	120000	2100	< 250 U
MW-25	MW-25-20120417	4/17/2012	18000	690	18
MW-25	MW-25-20121019	10/19/2012	56000	4200	1500
MW-25	MW-25-20121019-FD	10/19/2012	49000	3600	1500
MW-25	MW-25-20130425	4/25/2013	9100	330	7.9
MW-25	MW-25-20130425-FD	4/25/2013	9500	380	11
MW-25	MW-25-101813	10/18/2013	43000	2900	1300
MW-25	MW-25-201403	3/8/2014	14500	625	33.6 J
MW-25	MW-25-201405	5/15/2014	18500	600 J	30.3
MW-25	20140709-GW-MW-25	7/9/2014	49900	1750	< 0.50 U
MW-25	MW-25-201407	7/31/2014	71700	2310 J	< 500 U
MW-25	MW-25-201410	10/16/2014	42500	2870 J	540 J
MW-25	MW-25-20141024	10/24/2014	59800	2650 J	0.66 J
MW-25	MW-25-20141205	12/5/2014	2620 J	31.5	2.1
MW-25	MW-25-201501	1/15/2015	2510	126	1.6
MW-25	MW-25-201504	4/16/2015	4650	204	6.4
MW-25	MW-25-201507	7/23/2015	39800	580 J	66.4
MW-25	MW-25-201510	10/8/2015	68700	957 J	< 0.13 U
MW-25	MW-25-201601	1/13/2016	43400	608 J	55.0
MW-26	MW-26-19990201	2/1/1999	360	150	ND
MW-26	MW-26-19990601	6/1/1999	ND	ND	ND
MW-26	MW-26-20000301	3/1/2000	ND	ND	ND
MW-26	MW-26-20000921	9/21/2000	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20010326	3/26/2001	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20010911	9/11/2001	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20010911-FD	9/11/2001	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20020910	9/10/2002	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20030227	2/27/2003	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20030924	9/24/2003	< 5 U	< 5 U	< 10 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-26	MW-26-20040414	4/14/2004	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20040922	9/22/2004	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20050929	9/29/2005	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20061012	10/12/2006	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-26	MW-26-20091029	10/29/2009	< 5 U	< 5 U	< 5 U
MW-26	MW-26-20100512	5/12/2010	< 5 U	< 5 U	< 5 U
MW-26	MW-26-20101105	11/5/2010	22	< 5 U	< 5 U
MW-26	MW-26-20111026	10/26/2011	< 5 U	< 5 U	< 5 U
MW-26	MW-26-20120418	4/18/2012	< 5 U	< 5 U	< 5 U
MW-26	MW-26-20121018	10/18/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-26	MW-26-20130423	4/23/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-26	MW-26-101513	10/15/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-26	MW-26-201403	3/5/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-26	MW-26-201405	5/12/2014	0.25 J	< 0.080 U	< 0.13 U
MW-26	MW-26-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-26	MW-26-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-26	MW-26-201501	1/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-26	MW-26-201504	4/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-26	MW-26-201507	7/22/2015	0.18 J	< 0.080 U	< 0.13 U
MW-26	MW-26-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-26	MW-26-201601	1/13/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-27	MW-27-19991201	12/1/1999	ND	ND	ND
MW-27	MW-27-19991207	12/7/1999	< 5 U	< 5 U	< 10 U
MW-27	MW-27-19991209	12/9/1999	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20000301	3/1/2000	ND	ND	ND
MW-27	MW-27-20000921	9/21/2000	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20010105	1/5/2001	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20010105-FD	1/5/2001	5.55	< 5 U	< 10 U
MW-27	MW-27-20010326	3/26/2001	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20010911	9/11/2001	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20020911	9/11/2002	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20020911-FD	9/11/2002	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20030227	2/27/2003	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20030925	9/25/2003	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20040415	4/15/2004	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20040922	9/22/2004	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20050929	9/29/2005	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20061014	10/14/2006	2 J	< 5 U	< 10 U
MW-27	MW-27-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-27	MW-27-20100512	5/12/2010	3.1 J	< 5 U	< 5 U
MW-27	MW-27-20101105	11/5/2010	42	< 5 U	< 5 U
MW-27	MW-27-20111027	10/27/2011	< 5 U	< 5 U	< 5 U
MW-27	MW-27-20120418	4/18/2012	2.6 J	< 5 U	< 5 U
MW-27	MW-27-20121018	10/18/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-27	MW-27-20130424	4/24/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-27	MW-27-101513	10/15/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-27	MW-27-201403	3/7/2014	0.31 J	< 0.080 U	< 0.13 U
MW-27	MW-27-201405	5/13/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-27	MW-27-201407	7/30/2014	0.63 J	< 0.50 U	< 0.50 U
MW-27	MW-27-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-27	MW-27-201501	1/14/2015	0.84 J	0.59 J	< 0.50 U
MW-27	MW-27-201504	4/13/2015	0.59 J	< 0.50 U	< 0.50 U
MW-27	MW-27-201507	7/22/2015	0.18 J	< 0.080 U	< 0.13 U
MW-27	MW-27-201510	10/7/2015	0.55 J	0.33 J	< 0.13 U
MW-27	MW-27-201601	1/12/2016	0.61 J	0.42 J	< 0.13 U
MW-28	MW-28-19991201	12/1/1999	ND	ND	ND
MW-28	MW-28-19991209	12/9/1999	< 5 U	< 5 U	< 10 U
MW-28	MW-28-19991209-FD	12/9/1999	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20000301	3/1/2000	ND	ND	ND
MW-28	MW-28-20000921	9/21/2000	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20010327	3/27/2001	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20010327-FD	3/27/2001	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20010911	9/11/2001	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20020911	9/11/2002	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20030227	2/27/2003	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20030925	9/25/2003	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20040415	4/15/2004	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20040922	9/22/2004	< 5 U	< 5 U	< 10 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-28	MW-28-20050930	9/30/2005	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20061014	10/14/2006	< 5 U	< 5 U	< 10 UJ
MW-28	MW-28-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-28	MW-28-20091029	10/29/2009	< 5 U	< 5 U	< 5 U
MW-28	MW-28-20100512	5/12/2010	2.6 J	< 5 U	< 5 U
MW-28	MW-28-20101105	11/5/2010	54	< 5 U	< 5 U
MW-28	MW-28-20110323	3/23/2011	1.6 J	< 5 U	< 5 U
MW-28	MW-28-20111027	10/27/2011	< 5 U	< 5 U	< 5 U
MW-28	MW-28-20120419	4/19/2012	< 5 U	< 5 U	< 5 U
MW-28	MW-28-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-28	MW-28-20130424	4/24/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-28	MW-28-101513	10/15/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-28	MW-28-201403	3/6/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-28	MW-28-201405	5/13/2014	0.30 J	< 0.080 U	< 0.13 U
MW-28	MW-28-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-28	MW-28-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-28	MW-28-201501	1/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-28	MW-28-201504	4/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-28	MW-28-201507	7/22/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-28	MW-28-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-28	MW-28-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-29	MW-29-19991201	12/1/1999	ND	ND	ND
MW-29	MW-29-19991209	12/9/1999	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20000301	3/1/2000	ND	ND	ND
MW-29	MW-29-20000920	9/20/2000	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20010327	3/27/2001	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20010911	9/11/2001	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20020910	9/10/2002	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20030227	2/27/2003	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20030924	9/24/2003	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20040414	4/14/2004	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20040922	9/22/2004	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20050928	9/28/2005	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20061012	10/12/2006	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-29	MW-29-20081210-FD	12/10/2008	< 5 U	< 5 U	< 5 U
MW-29	MW-29-20091029	10/29/2009	< 5 U	< 5 U	< 5 U
MW-29	MW-29-20111025	10/25/2011	< 5 U	< 5 U	< 5 U
MW-29	MW-29-20120418	4/18/2012	< 5 U	< 5 U	< 5 U
MW-29	MW-29-20121018	10/18/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-29	MW-29-20130423	4/23/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-29	MW-29-101413	10/14/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-29	MW-29-201403	3/5/2014	0.52 J	< 0.080 U	< 0.13 U
MW-29	MW-29-201405	5/13/2014	0.18 J	< 0.080 U	< 0.13 U
MW-29	MW-29-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-29	MW-29-201410	10/15/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-29	MW-29-201501	1/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-29	MW-29-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-29	MW-29-201507	7/22/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-29	MW-29-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-29	MW-29-201601	1/13/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-30	MW-30-19991201	12/1/1999	115	34	ND
MW-30	MW-30-19991209	12/9/1999	115	34	< 10 U
MW-30	MW-30-20000301	3/1/2000	86	25	ND
MW-30	MW-30-20000920	9/20/2000	102	25	< 10 U
MW-30	MW-30-20010327	3/27/2001	43	11	< 10 U
MW-30	MW-30-20010911	9/11/2001	63	18	< 10 U
MW-30	MW-30-20020910	9/10/2002	48	14	< 10 U
MW-30	MW-30-20030227	2/27/2003	60	20.3	< 10 U
MW-30	MW-30-20030924	9/24/2003	46.8	13.7	< 10 U
MW-30	MW-30-20040414	4/14/2004	36.6	11.8	< 10 U
MW-30	MW-30-20040922	9/22/2004	36.2	12.1	< 10 U
MW-30	MW-30-20050928	9/28/2005	59.6	15.6	< 10 U
MW-30	MW-30-20061012	10/12/2006	53	15	< 10 U
MW-30	MW-30-20070920	9/20/2007	39	11	< 10 U
MW-30	MW-30-20081210	12/10/2008	37	11	< 5 U
MW-30	MW-30-20101103	11/3/2010	50	15	< 5 U
MW-30	MW-30-20111026	10/26/2011	57	16	< 5 U
MW-30	MW-30-20120418	4/18/2012	150	32	< 5 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-30	MW-30-20121018	10/18/2012	65	19	< 0.11 U
MW-30	MW-30-20130425	4/25/2013	49	18	0.49 J
MW-30	MW-30-101413	10/14/2013	40	16	< 0.11 U
MW-31	MW-31-20010105	1/5/2001	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20010326	3/26/2001	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20010913	9/13/2001	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20020911	9/11/2002	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20030228	2/28/2003	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20030925	9/25/2003	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20040415	4/15/2004	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20040923	9/23/2004	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20050405	4/5/2005	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20050927	9/27/2005	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20060315	3/15/2006	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20061011	10/11/2006	3 J	< 5 U	< 10 U
MW-31	MW-31-20070419	4/19/2007	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20070918	9/18/2007	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20080430	4/30/2008	2 J	< 5 U	< 10 U
MW-31	MW-31-20081211	12/11/2008	< 5 U	< 5 U	< 5 U
MW-31	MW-31-20090425	4/25/2009	< 5 U	< 5 U	< 5 U
MW-31	MW-31-20100512	5/12/2010	< 5 U	< 5 U	< 5 U
MW-31	MW-31-20101107	11/7/2010	48	< 5 U	< 5 U
MW-31	MW-31-20110323	3/23/2011	< 5 U	< 5 U	< 5 U
MW-31	MW-31-20111026	10/26/2011	< 5 U	< 5 U	< 5 U
MW-31	MW-31-20121019	10/19/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-31	MW-31-101813	10/18/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-31	MW-31-201403	3/6/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-31	MW-31-201405	5/13/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-31	DUP-1-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-31	MW-31-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-31	MW-31-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-31	MW-31-201501	1/12/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-31R	MW-31R-GW-20150119	1/19/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-31R	MW-31R-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-31R	MW-31R-201507	7/21/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-31R	MW-31R-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-31R	MW-31R-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-32	MW-32-20010105	1/5/2001	108	< 5 U	< 10 U
MW-32	MW-32-20010327	3/27/2001	174	< 5 U	< 10 U
MW-32	MW-32-20010913	9/13/2001	95	< 5 U	< 10 U
MW-32	MW-32-20020911	9/11/2002	109	< 5 U	< 10 U
MW-32	MW-32-20030228	2/28/2003	133	< 5 U	< 10 U
MW-32	MW-32-20030925	9/25/2003	32.3	< 5 U	< 10 U
MW-32	MW-32-20040415	4/15/2004	76.9	< 5 U	< 10 U
MW-32	MW-32-20040923	9/23/2004	51.4	< 5 U	< 10 U
MW-32	MW-32-20050405	4/5/2005	158	< 5 U	< 10 U
MW-32	MW-32-20050927	9/27/2005	97.6	< 5 U	< 10 U
MW-32	MW-32-20060315	3/15/2006	111	< 5 U	< 10 U
MW-32	MW-32-20061012	10/12/2006	85	4 J	< 10 U
MW-32	MW-32-20070419	4/19/2007	66.3	10.1	< 10 U
MW-32	MW-32-20070918	9/18/2007	78	< 5 U	< 10 U
MW-32	MW-32-20080430	4/30/2008	70	2 J	< 10 U
MW-32	MW-32-20081211	12/11/2008	60	< 5 U	< 5 U
MW-32	MW-32-20090425	4/25/2009	47	< 5 U	< 5 U
MW-32	MW-32-20091028	10/28/2009	68	1.8 J	< 5 U
MW-32	MW-32-20100512	5/12/2010	58	< 5 U	< 5 U
MW-32	MW-32-20101106	11/6/2010	120	< 5 U	< 5 U
MW-32	MW-32-20110324	3/24/2011	66	1.4 J	< 5 U
MW-32	MW-32-20111026	10/26/2011	73	< 5 U	< 5 U
MW-32	MW-32-20121019	10/19/2012	61	1.2 J	< 0.11 U
MW-32	MW-32-101813	10/18/2013	48	1.4 J	< 0.11 U
MW-32	MW-32-201403	3/8/2014	36.8	1.1 J	< 0.13 U
MW-32	MW-32-201405	5/13/2014	33.1	0.19 J	< 0.13 U
MW-32	MW-32-201407	7/29/2014	37.2	1.0 J	< 0.50 U
MW-32	MW-32-201410	10/14/2014	29.7	0.80 J	< 0.50 U
MW-32	MW-32-201501	1/14/2015	20.2	0.55 J	< 0.50 U
MW-32R	MW-32R-GW-20150119	1/19/2015	12.9	< 0.50 U	< 0.50 U
MW-32R	MW-32R-201504	4/15/2015	11.2	< 0.50 U	< 0.50 U
MW-32R	MW-32R-201507	7/21/2015	7.4	0.29 J	< 0.13 U
MW-32R	MW-32R-201510	10/7/2015	8.2	0.37 J	< 0.13 U
MW-32R	MW-32R-201601	1/12/2016	13.1	0.45 J	< 0.13 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-33	MW-33-20010105	1/5/2001	120	< 5 U	< 10 U
MW-33	MW-33-20010327	3/27/2001	260	7	< 10 U
MW-33	MW-33-20010913	9/13/2001	310	8	< 10 U
MW-33	MW-33-20020911	9/11/2002	450	8	< 10 U
MW-33	MW-33-20030228	2/28/2003	274	6.62	< 10 U
MW-33	MW-33-20030925	9/25/2003	198	5.95	< 10 U
MW-33	MW-33-20040415	4/15/2004	871	21.3	< 10 U
MW-33	MW-33-20040923	9/23/2004	798	15.3	< 10 U
MW-33	MW-33-20050405	4/5/2005	1430	24.5	< 10 U
MW-33	MW-33-20050927	9/27/2005	1030	15.2	< 10 U
MW-33	MW-33-20060315	3/15/2006	1610	20.5	< 10 U
MW-33	MW-33-20061012	10/12/2006	1300	19	< 10 U
MW-33	MW-33-20070419	4/19/2007	1430	9.2 J	< 50 U
MW-33	MW-33-20070918	9/18/2007	1700	25	< 10 U
MW-33	MW-33-20080430	4/30/2008	1100	16	< 10 U
MW-33	MW-33-20081211	12/11/2008	1200	18	< 5 U
MW-33	MW-33-20090425	4/25/2009	1200	19	< 5 U
MW-33	MW-33-20090527	5/27/2009	1000	19	< 5 U
MW-33	MW-33-20091028	10/28/2009	1200	20	< 5 U
MW-33	MW-33-20100512	5/12/2010	1100	21	< 5 U
MW-33	MW-33-20101106	11/6/2010	1200	17	< 5 U
MW-33	MW-33-20110304-FS	3/4/2011	500	14	< 0.85 U
MW-33	MW-33-20110523-FS	5/23/2011	1300	18	NT
MW-33	MW-33-20111026	10/26/2011	1000	16	< 5 U
MW-33	MW-33-20121019	10/19/2012	1300	18	0.56 J
MW-33	MW-33-101813	10/18/2013	1100	19	< 0.11 U
MW-33	MW-33-201403	3/8/2014	918	15.9	0.56 J
MW-33	MW-33-201405	5/14/2014	954	15.1	0.56 J
MW-33	MW-33-201407	7/29/2014	1600	20.8	0.59 J
MW-33	MW-33-201410	10/15/2014	1290	15.3	< 0.50 U
MW-33	MW-33-201501	1/14/2015	1080	13.9	< 0.50 U
MW-33R	MW-33R-GW-20150118	1/18/2015	799	9.9	< 0.50 U
MW-33R	DUP-01-201504	4/15/2015	624	10.5	< 0.50 U
MW-33R	MW-33R-201504	4/15/2015	570	12.2	0.37 J
MW-33R	DUP-04-201507	7/22/2015	447	6.1	< 0.13 U
MW-33R	MW-33R-201507	7/22/2015	488	6.8	< 0.13 U
MW-33R	DUP-05-201510	10/8/2015	460	6.3	0.28 J
MW-33R	MW-33R-201510	10/8/2015	562	6.1	0.31 J
MW-33R	MW-33R-201511	11/5/2015	752	8.0	0.39 J
MW-33R	MW-33R-201601	1/8/2016	724	7.6	< 0.13 U
MW-34	MW-34-20010328	3/28/2001	83	< 5 U	< 10 U
MW-34	MW-34-20010913	9/13/2001	61	< 5 U	< 10 U
MW-34	MW-34L-20020909	9/9/2002	84	< 5 U	< 10 U
MW-34	MW-34-20030228	2/28/2003	< 5 U	< 5 U	< 10 U
MW-34	MW-34-20030925	9/25/2003	28.4	< 5 U	< 10 U
MW-34	MW-34-20031114	11/14/2003	121	< 5 U	< 10 U
MW-34	MW-34-20040415	4/15/2004	119	< 5 U	< 10 U
MW-34	MW-34-20040923	9/23/2004	81.1	< 5 U	< 10 U
MW-34	MW-34-20041209	12/9/2004	93.3	< 5 U	< 10 U
MW-34	MW-34-20050405	4/5/2005	65.8	< 5 U	< 10 U
MW-34	MW-34-20050930	9/30/2005	83.7	< 5 U	< 10 U
MW-34	MW-34-20060314	3/14/2006	77.1	< 5 U	< 10 U
MW-34	MW-34-20061011	10/11/2006	63	4 J	< 10 U
MW-34	MW-34-20070418	4/18/2007	41	9.79	< 10 U
MW-34	MW-34-20070919	9/19/2007	61	< 5 U	< 10 U
MW-34	MW-34-20080430	4/30/2008	32	< 5 U	< 10 U
MW-34	MW-34-20081210	12/10/2008	53	< 5 U	< 5 U
MW-34	MW-34-20090424	4/24/2009	43	< 5 U	< 5 U
MW-34	MW-34-20090527	5/27/2009	12	< 5 U	< 5 U
MW-34	MW-34-20091028	10/28/2009	34	< 5 U	< 5 U
MW-34	MW-34-20100512	5/12/2010	38	< 5 U	< 5 U
MW-34	MW-34-20101107-FD	11/7/2010	70	< 5 U	< 5 U
MW-34	MW-34-20101107	11/7/2010	73	< 5 U	< 5 U
MW-34	MW-34-20110324-FD	3/24/2011	40	< 5 U	< 5 U
MW-34	MW-34-20110324	3/24/2011	42	< 5 U	< 5 U
MW-34	MW-34-20111026	10/26/2011	56	< 5 U	< 5 U
MW-34	MW-34-20121020	10/20/2012	90	1.6 J	< 0.11 U
MW-34	MW-34-101713	10/17/2013	43	0.90 J	< 0.11 U
MW-34	MW-34-201403	3/8/2014	28.7	0.61 J	< 0.13 U
MW-34	MW-34-201405	5/13/2014	19.9	< 0.080 U	< 0.13 U
MW-34	MW-34-201407	7/29/2014	78.2	1.7 J	< 0.50 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-34	MW-34-201410	10/15/2014	47.7	0.96 J	< 0.50 U
MW-34	MW-34-201501	1/13/2015	22.0	< 0.50 U	< 0.50 U
MW-34	MW-34-201504	4/14/2015	13.8	< 0.50 U	< 0.50 U
MW-34R	MW-34R-201507	7/21/2015	3.5	< 0.080 U	< 0.13 U
MW-34R	MW-34R-201510	10/8/2015	4.5	0.16 J	< 0.13 U
MW-34R	MW-34R-201601	1/11/2016	2.6	0.30 J	< 0.13 U
MW-35R	MW-35R-20010328	3/28/2001	960	34	< 10 U
MW-35R	MW-35R-20010913	9/13/2001	1030	40	< 20 U
MW-35R	MW-35L-20020909	9/9/2002	900	31	< 10 U
MW-35R	MW-35R-20030228	2/28/2003	246	15.1	< 10 U
MW-35R	MW-35R-20030925	9/25/2003	297	19.8	< 10 U
MW-35R	MW-35R-20031114	11/14/2003	990	34.9	< 10 U
MW-35R	MW-35R-20040415	4/15/2004	1150	45.8	< 10 U
MW-35R	MW-35R-20040923	9/23/2004	685	28.4	< 10 U
MW-35R	MW-35R-20041209	12/9/2004	880	42	< 10 U
MW-35R	MW-35R-20050406	4/6/2005	886	35	< 10 U
MW-35R	MW-35R-20050930	9/30/2005	804	29.3	< 10 U
MW-35R	MW-35R-20060314	3/14/2006	858	24.2	< 10 U
MW-35R	MW-35R-20060406	4/6/2006	1540	52.5	< 10 U
MW-35R	MW-35R-20061011	10/11/2006	910	29	< 10 U
MW-35R	MW-35R-20070418	4/18/2007	900	27.6	< 10 U
MW-35R	MW-35R-20070919	9/19/2007	1100	28	< 10 U
MW-35R	MW-35R-20080430	4/30/2008	1100	33	< 10 U
MW-35R	MW-35R-20081211	12/11/2008	790	27	< 5 U
MW-35R	MW-35R-20090424	4/24/2009	1100	37	< 5 U
MW-35R	MW-35R-20090507	5/7/2009	< 5 U	< 5 U	< 5 U
MW-35R	MW-35R-20090527	5/27/2009	< 5 U	< 5 U	< 5 U
MW-35R	MW-35R-20101105	11/5/2010	240	9.9	< 5 U
MW-35R	MW-35R-20110304-FS	3/4/2011	180	8.4	< 0.85 U
MW-35R	MW-35R-20110523-FS	5/23/2011	260	13	NT
MW-35R	MW-35R-20111025	10/25/2011	280	12	< 5 U
MW-35R	MW-35R-20121020	10/20/2012	280	10	< 0.11 U
MW-35R	MW-35R-101713	10/17/2013	200	12	< 0.11 U
MW-35R	MW-35R-20131017-FD	10/17/2013	220	13	NT
MW-35R	MW-35R-201403	3/8/2014	345	14.9	< 0.13 U
MW-35R	MW-35R-201405	5/13/2014	183	6.1	< 0.13 U
MW-35R	MW-35R-201407	7/30/2014	64.7	2.8 J	< 0.50 U
MW-35R	MW-35R-201410	10/14/2014	79.2	2.6 J	< 0.50 U
MW-35R	MW-35R-201501	1/13/2015	10.9	< 0.50 U	< 0.50 U
MW-35R	MW-35R-201504	4/14/2015	39.5	1.3	< 0.50 U
MW-35R	MW-35R-201507	7/21/2015	33.7	1.0	< 0.13 U
MW-35R	MW-35R-201510	10/7/2015	15.4	0.58 J	< 0.13 U
MW-35R	MW-35R-201511	11/4/2015	23.6	0.36 J	< 0.13 U
MW-35R	MW-35R-201601	1/11/2016	13.2	0.34 J	< 0.13 U
MW-36	MW-36-20010328	3/28/2001	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20010913	9/13/2001	< 5 U	< 5 U	< 10 U
MW-36	MW-36L-20020909	9/9/2002	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20030228	2/28/2003	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20030925	9/25/2003	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20031114	11/14/2003	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20040415	4/15/2004	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20040923	9/23/2004	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20050406	4/6/2005	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20050930	9/30/2005	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20060317	3/17/2006	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20061011	10/11/2006	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20070418	4/18/2007	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20070920	9/20/2007	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20080430	4/30/2008	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20081211	12/11/2008	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20090424	4/24/2009	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20090507	5/7/2009	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20090508	5/8/2009	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20090528	5/28/2009	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20091028	10/28/2009	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20100512	5/12/2010	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20101107	11/7/2010	9.9	< 5 U	< 5 U
MW-36	MW-36-20110324	3/24/2011	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20111026	10/26/2011	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20121019	10/19/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-36	MW-36-101713	10/17/2013	< 1.6 U	< 0.56 U	< 0.11 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-36	MW-36-201403	3/6/2014	0.22 J	< 0.080 U	< 0.13 U
MW-36	MW-36-201405	5/13/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-36	MW-36-201407	7/29/2014	0.61 J	< 0.50 U	< 0.50 U
MW-36	MW-36-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-36	MW-36-201501	1/12/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-36	MW-36-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-36R	MW-36R-201507	7/20/2015	< 0.17 UJ	< 0.080 UJ	< 0.13 UJ
MW-36R	MW-36R-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-36R	MW-36R-201601	1/11/2016	0.31 J	< 0.080 U	< 0.13 U
MW-37	MW-37-20010914	9/14/2001	5000	340	< 100 U
MW-37	MW-37-20011120	11/20/2001	< 5 U	< 5 U	< 10 U
MW-37	MW-37-20020911	9/11/2002	1400	10000	300
MW-37	MW-37-20030227	2/27/2003	4050	5660	2500
MW-37	MW-37-20030717	7/17/2003	2560	1710	316
MW-37	MW-37-20030924	9/24/2003	3700	7020	973
MW-37	MW-37-20040413	4/13/2004	5190	3160	1180
MW-37	MW-37-20040921	9/21/2004	5030	5650	1370
MW-37	MW-37-20050405	4/5/2005	5310	2360	1030 E
MW-37	MW-37-20050929	9/29/2005	6780	3210	910 E
MW-37	MW-37-20060316	3/16/2006	11200	5020	1730
MW-37	MW-37-20061013	10/13/2006	13000	5300	1200
MW-37	MW-37-20061013-FD	10/13/2006	13000	5000	1200
MW-37	MW-37-20070419	4/19/2007	9490	3010	780
MW-37	MW-37-20070921	9/21/2007	22000	9100	2800
MW-37	MW-37-20080430	4/30/2008	16000	3300	1800
MW-37	MW-37-20081210	12/10/2008	24000	6300	1800
MW-37	MW-37-20090427	4/27/2009	11000	3200	1200
MW-37	MW-37-20091027	10/27/2009	37000	7400	2200
MW-37	MW-37-20100511	5/11/2010	33000	7200	2400
MW-37	MW-37-20101104	11/4/2010	54000	10000	2200
MW-37	MW-37-20110322	3/22/2011	36000	6000	2300
MW-37	MW-37-20111026	10/26/2011	57000	9700	2500
MW-37	MW-37-20120418	4/18/2012	29000	5300	2100
MW-37	MW-37-20121019	10/19/2012	4800	1100	230
MW-37	MW-37-20130425	4/25/2013	1700	900	230
MW-37	MW-37-101713	10/17/2013	1100	1500	1300
MW-38	MW-38-20010914	9/14/2001	620	90	< 20 U
MW-38	MW-38-20050929	9/29/2005	< 5 U	98.9	2150
MW-38	MW-38-20061013	10/13/2006	26	130	2000 J
MW-38	MW-38-20081210	12/10/2008	44	110	1400
MW-38	MW-38-20111026	10/26/2011	580	870	1100
MW-38	MW-38-20121018	10/18/2012	1000	750	700
MW-38	MW-38-101613	10/16/2013	2300	1200	560
MW-38	MW-38-201403	3/8/2014	1790	535	68.4
MW-38	DUP1-201405	5/14/2014	2040	426 J	98.2
MW-38	MW-38-201405	5/14/2014	1650	428	97.9
MW-38	MW-38-201407	7/31/2014	1720	637	197
MW-38	DUP-06-201410	10/16/2014	6970	869	370
MW-38	MW-38-201410	10/16/2014	6750	781	321
MW-38	MW-38-20141204	12/4/2014	3190	697	193
MW-38	DUP-06-201501	1/15/2015	3910	1190	143
MW-38	MW-38-201501	1/15/2015	5440	1900	133
MW-38	MW-38-201504	4/16/2015	3060	2060	33.7
MW-38	MW-38-201507	7/23/2015	3420	1340	119
MW-38	MW-38-201510	10/8/2015	2740	1340	190
MW-38	MW-38-201601	1/13/2016	3680	1180	84.3
MW-39	MW-39-20030718	7/18/2003	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20030925	9/25/2003	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20031114	11/14/2003	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20040415	4/15/2004	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20040923	9/23/2004	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20050408	4/8/2005	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20050930	9/30/2005	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20060317	3/17/2006	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20061011	10/11/2006	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20070418	4/18/2007	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20080430	4/30/2008	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20081209	12/9/2008	< 5 U	< 5 U	< 5 U
MW-39	MW-39-20090424	4/24/2009	< 5 U	< 5 U	< 5 U
MW-39	MW-39-20091027	10/27/2009	< 5 U	< 5 U	< 5 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-39	MW-39-20100511	5/11/2010	< 5 U	< 5 U	< 5 U
MW-39	MW-39-20101107	11/7/2010	20	< 5 U	< 5 U
MW-39	MW-39-20110324	3/24/2011	< 5 U	< 5 U	< 5 U
MW-39	MW-39-20111026	10/26/2011	< 5 U	< 5 U	< 5 U
MW-39	MW-39-20121019	10/19/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-39	MW-39-101813	10/18/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-39	MW-39-201403	3/6/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-39	MW-39-201405	5/13/2014	0.23 J	< 0.080 U	< 0.13 U
MW-39	MW-39-201407	7/29/2014	0.79 J	< 0.50 U	< 0.50 U
MW-39	MW-39-201410	10/13/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-39	MW-39-201501	1/12/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-39	MW-39-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-39R	MW-39R-201507	7/20/2015	< 0.17 UJ	< 0.080 UJ	< 0.13 UJ
MW-39R	MW-39R-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-39R	MW-39R-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-40	MW-40-20030718	7/18/2003	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20030925	9/25/2003	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20031114	11/14/2003	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20031114-FD	11/14/2003	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20040415	4/15/2004	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20040923	9/23/2004	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20050407	4/7/2005	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20050929	9/29/2005	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20060314	3/14/2006	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20061010	10/10/2006	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20070418	4/18/2007	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20070918	9/18/2007	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20080428	4/28/2008	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20081211	12/11/2008	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20090424	4/24/2009	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20090527	5/27/2009	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20091029	10/29/2009	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20100512	5/12/2010	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20101104	11/4/2010	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20110323	3/23/2011	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20111026	10/26/2011	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20120418	4/18/2012	3.9 J	< 5 U	< 5 U
MW-40	MW-40-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-40	MW-40-20130423	4/23/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-40	MW-40-101513	10/15/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-40	MW-40-201403	3/6/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-40	MW-40-201405	5/12/2014	0.76 J	< 0.080 U	< 0.13 U
MW-40	MW-40-201407	7/29/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-40	MW-40-201410	10/13/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-40	MW-40-201501	1/12/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-40	MW-40-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-40R	MW-40R-201507	7/20/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-40R	DUP-03-201510	10/6/2015	0.83 J	< 0.080 U	< 0.13 U
MW-40R	MW-40R-201510	10/6/2015	0.30 J	0.23 J	< 0.13 U
MW-40R	DUP-06-201601	1/12/2016	0.28 J	0.22 J	< 0.13 U
MW-40R	MW-40R-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-41	MW-41-20030718	7/18/2003	972	50.6	< 10 U
MW-41	MW-41-20030718-FD	7/18/2003	964	45.5	< 10 U
MW-41	MW-41-20030925	9/25/2003	722	37.8	< 10 U
MW-41	MW-41-20031114	11/14/2003	331	205	< 10 U
MW-41	MW-41-20040415	4/15/2004	760	54.2	< 10 U
MW-41	MW-41-20040923	9/23/2004	1060	48	< 10 U
MW-41	MW-41-20050407	4/7/2005	1170	58	< 10 U
MW-41	MW-41-20050930	9/30/2005	1120	55.8	< 10 U
MW-41	MW-41-20060317	3/17/2006	917	52.5	< 10 U
MW-41	MW-41-20061013	10/13/2006	970	43	< 10 UJ
MW-41	MW-41-20070418	4/18/2007	900	30.1	< 10 U
MW-41	MW-41-20070920	9/20/2007	850	32	< 10 U
MW-41	MW-41-20080430	4/30/2008	730	31	< 10 U
MW-41	MW-41-20081211	12/11/2008	820	29	< 5 U
MW-41	MW-41-20090424	4/24/2009	660	25	< 5 U
MW-41	MW-41-20090507	5/7/2009	180	4.7 J	< 5 U
MW-41	MW-41-20090508	5/8/2009	180	4.7 J	< 5 U
MW-41	MW-41-20090527	5/27/2009	230	16	< 5 U
MW-41	MW-41-20091028	10/28/2009	180	4 J	< 5 U
MW-41	MW-41-20100513	5/13/2010	610	19	< 5 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)	
MW-41	MW-41-20101105	11/5/2010	930	31	< 5	U
MW-41	MW-41-20110304-FS	3/4/2011	120	20	< 0.85	U
MW-41	MW-41-20110523-FS	5/23/2011	370	15	NT	
MW-41	MW-41-20111025	10/25/2011	420	18	< 5	U
MW-41	MW-41-20121020	10/20/2012	620	23	< 0.11	U
MW-41	MW-41-20121020-FD	10/20/2012	550	21	< 0.11	U
MW-41	MW-41-101613	10/16/2013	520	24	< 0.11	U
MW-41	MW-41-201403	3/7/2014	501	19.7	0.68	J
MW-41	MW-41-201405	5/14/2014	518	18.0	0.50	J
MW-41	DUP-2-201407	7/30/2014	511	19.1	< 0.50	U
MW-41	MW-41-201407	7/30/2014	480	19.7	< 0.50	U
MW-41	MW-41-201410	10/15/2014	491	16.9	< 0.50	U
MW-41	MW-41-201501	1/14/2015	425	15.6	< 0.50	U
MW-41	DUP-02-201504	4/15/2015	410	13.5	< 0.50	
MW-41	MW-41-201504	4/15/2015	386	15.2	0.27	J
MW-41R	DUP-03-201507	7/21/2015	43.0	2.8	< 0.13	U
MW-41R	MW-41R-201507	7/21/2015	40.4	3.3	< 0.13	U
MW-41R	DUP-07-201510	10/6/2015	46.4	35.2	0.33	J
MW-41R	MW-41R-201510	10/6/2015	48.7	36.7	0.39	J
MW-41R	DUP-07-201601	1/12/2016	56.6	40.1	0.35	J
MW-41R	MW-41R-201601	1/12/2016	59.9	40.9	0.38	J
MW-42B	MW-42B-20031114	11/14/2003	481	21.1	< 10	U
MW-42B	MW-42B-20040415	4/15/2004	856	29.3	< 10	U
MW-42B	MW-42B-20040923	9/23/2004	400	19.8	< 10	U
MW-42B	MW-42B-20050405	4/5/2005	1310	32	< 10	U
MW-42B	MW-42B-20050927	9/27/2005	1470	27.3	< 10	U
MW-42B	MW-42B-20060315	3/15/2006	2270	37.2	< 10	U
MW-42B	MW-42B-20061010	10/10/2006	2000	35	2	J
MW-42B	MW-42B-20070417	4/17/2007	1600	36.8	< 10	U
MW-42B	MW-42B-20070918	9/18/2007	2100	39	4	J
MW-42B	MW-42B-20080429	4/29/2008	1600	33	3	J
MW-42B	MW-42B-20081209	12/9/2008	1100	30	< 5	U
MW-42B	MW-42B-20090425	4/25/2009	1500	35	< 5	U
MW-43	MW-43-20031114	11/14/2003	223	18.5	< 10	U
MW-43	MW-43-20040415	4/15/2004	510	12.1	< 10	U
MW-43	MW-43-20040923	9/23/2004	64.7	6.31	< 10	U
MW-43	MW-43-20050405	4/5/2005	304	11.9	< 10	U
MW-43	MW-43-20050927	9/27/2005	518	21.3	< 10	U
MW-43	MW-43-20060315	3/15/2006	1300	35	< 10	U
MW-43	MW-43-20061011	10/11/2006	920	30	< 10	U
MW-43	MW-43-20070417	4/17/2007	220	14.1	< 10	U
MW-43	MW-43-20070918	9/18/2007	350	13	< 10	U
MW-43	MW-43-20080428	4/28/2008	120	4 J	< 10	U
MW-43	MW-43-20081209	12/9/2008	150	5.3	< 5	U
MW-43	MW-43-20090425	4/25/2009	120	< 5 U	< 5	U
MW-43	MW-43-20090507	5/7/2009	180	6	< 5	U
MW-43	MW-43-20090508	5/8/2009	180	6	< 5	U
MW-46R	MW-46R-20031114	11/14/2003	39.9	< 5 U	< 10	U
MW-46R	MW-46R-20040415	4/15/2004	77.1	27.2	< 10	U
MW-46R	MW-46R-20040923	9/23/2004	142	21.2	< 10	U
MW-46R	MW-46R-20050406	4/6/2005	210	28.4	< 10	U
MW-46R	MW-46R-20050928	9/28/2005	222	15.6	< 10	U
MW-46R	MW-46R-20060316	3/16/2006	111	6.37	< 10	U
MW-46R	MW-46R-20060406	4/6/2006	300	< 5 U	< 10	U
MW-46R	MW-46R-20061011	10/11/2006	450	8	< 10	U
MW-46R	MW-46R-20070417	4/17/2007	440	12.5	< 10	U
MW-46R	MW-46R-20070918	9/18/2007	420	9	< 10	U
MW-46R	MW-46R-20080429	4/29/2008	430	8	< 10	U
MW-46R	MW-46R-20081209	12/9/2008	310	19	< 5	U
MW-46R	MW-46R-20090425	4/25/2009	460	11	< 5	U
MW-46R	MW-46R-20090527	5/27/2009	< 5 U	< 5 U	< 5	U
MW-46R	MW-46R-20091027	10/27/2009	390	12	< 5	U
MW-46R	MW-46R-20091221-FS	12/21/2009	410	10	< 1.6	U
MW-46R	MW-46R-20100511	5/11/2010	610	13	< 5	U
MW-46R	MW-46R-20101105	11/5/2010	650	12	< 5	U
MW-46R	MW-46R-20110307-FS	3/7/2011	670	14	< 0.85	U
MW-46R	MW-46R-20110322	3/22/2011	680	11	< 5	U
MW-46R	MW-46R-20110523-FS	5/23/2011	610	13	NT	
MW-46R	MW-46R-20111026	10/26/2011	460	10	< 5	U
MW-46R	MW-46R-20120418	4/18/2012	680	14	< 5	U
MW-46R	MW-46R-20121020	10/20/2012	410	7.9	0.44	J

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-46R	MW-46R-20130423	4/23/2013	470	7.6	0.91 J
MW-46R	MW-46R-101813	10/18/2013	410	11	< 0.11 U
MW-46R	MW-46R-201403	3/7/2014	469	12.8	0.46 J
MW-46R	MW-46R-201405	5/14/2014	471	12.8	0.76 J
MW-46R	MW-46R-201407	7/29/2014	472	13.7	0.64 J
MW-46R	DUP-03-201410	10/16/2014	373	25.2	< 0.50 U
MW-46R	MW-46R-201410	10/16/2014	410	24.6	< 0.50 U
MW-46R	DUP-03-201501	1/13/2015	428	12.0	0.90 J
MW-46R	MW-46R-201501	1/13/2015	452	11.6	0.71 J
MW-46R	DUP-07-201504	4/14/2015	482	13.9	0.51 J
MW-46R	MW-46R-201504	4/14/2015	220 J	13.8	0.47 J
MW-46R	DUP-05-201507	7/21/2015	444	10.3	0.40 J
MW-46R	MW-46R-201507	7/21/2015	460	11.2	0.37 J
MW-46R	MW-46R-201510	10/7/2015	371	10.2	0.43 J
MW-46R	MW-46R-201601	1/12/2016	432	10.9	0.56 J
MW-50	MW-50-20040415	4/15/2004	6.51	< 5 U	< 10 U
MW-50	MW-50-20040923	9/23/2004	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20041210	12/10/2004	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20050406	4/6/2005	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20050928	9/28/2005	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20060317	3/17/2006	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20061012	10/12/2006	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20070419	4/19/2007	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20080429	4/29/2008	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20090424	4/24/2009	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20091027	10/27/2009	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20100511	5/11/2010	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20101105	11/5/2010	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20110323	3/23/2011	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20111025	10/25/2011	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-50	MW-50-101613	10/16/2013	1.6 J	< 0.56 U	< 0.11 U
MW-50	MW-50-201403	3/6/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-50	MW-50-201405	5/13/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-50	MW-50-201407	7/28/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-50	MW-50-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-50	MW-50-201501	1/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-50	MW-50-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-50R	MW-50R-201507	7/21/2015	0.22 J	< 0.080 U	< 0.13 U
MW-50R	MW-50R-201510	10/6/2015	0.35 J	< 0.080 U	< 0.13 U
MW-50R	MW-50R-201601	1/11/2016	0.42 J	< 0.080 U	< 0.13 U
MW-55	MW-55-20041209	12/9/2004	< 5 U	< 5 U	< 10 U
MW-55	MW-55-20050408	4/8/2005	< 5 U	< 5 U	< 10 U
MW-55	MW-55-20050928	9/28/2005	< 5 U	< 5 U	< 10 U
MW-55	MW-55-20060316	3/16/2006	< 5 U	< 5 U	< 10 U
MW-55	MW-55-20061013	10/13/2006	2 J	< 5 U	< 10 UJ
MW-55	MW-55-20070419	4/19/2007	2.6 J	< 5 U	< 10 U
MW-55	MW-55-20070919	9/19/2007	5 J	< 5 U	< 10 U
MW-55	MW-55-20080429	4/29/2008	< 5 U	< 5 U	< 10 U
MW-55	MW-55-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-55	MW-55-20090424	4/24/2009	< 5 U	< 5 U	< 5 U
MW-55	MW-55-20091027	10/27/2009	3.6 J	< 5 U	< 5 U
MW-55	MW-55-20100512	5/12/2010	4.2 J	< 5 U	< 5 U
MW-55	MW-55-20101106	11/6/2010	14	< 5 U	< 5 U
MW-55	MW-55-20110323	3/23/2011	5.5	< 5 U	< 5 U
MW-55	MW-55-20111025	10/25/2011	7	< 5 U	< 5 U
MW-55	MW-55-20121020	10/20/2012	9.2	< 0.56 U	< 0.11 U
MW-55	MW-55-101613	10/16/2013	13	< 0.56 U	< 0.11 U
MW-55R	MW-55R-201507	7/20/2015	8.2	0.42 J	0.13 J
MW-55R	MW-55R-201510	10/6/2015	4.4	0.53 J	0.14 J
MW-55R	MW-55R-201601	1/12/2016	0.26 J	< 0.080 U	< 0.13 U
MW-56	MW-56-20041210	12/10/2004	90.2	< 5 U	< 10 U
MW-56	MW-56-20050408	4/8/2005	88.2	< 5 U	< 10 U
MW-56	MW-56-20050928	9/28/2005	207	< 5 U	< 10 U
MW-56	MW-56-20060316	3/16/2006	8.7	< 5 U	< 10 U
MW-56	MW-56-20061014	10/14/2006	110	2 J	< 10 UJ
MW-56	MW-56-20070419	4/19/2007	< 5 U	< 5 U	< 10 U
MW-56	MW-56-20070919	9/19/2007	38	< 5 U	< 10 U
MW-56	MW-56-20080429	4/29/2008	4 J	< 5 U	< 10 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-56	MW-56-20081210	12/10/2008	93	< 5 U	< 5 U
MW-56	MW-56-20090424	4/24/2009	14	< 5 U	< 5 U
MW-56	MW-56-20091027	10/27/2009	8.7	< 5 U	< 5 U
MW-56	MW-56-20100512	5/12/2010	230	6.4	< 5 U
MW-56	MW-56-20110323	3/23/2011	71	2.6 J	< 5 U
MW-56	MW-56-20111025	10/25/2011	150	11	1.9 J
MW-56	MW-56-20121020	10/20/2012	470	11	< 0.11 U
MW-56	MW-56-101713	10/17/2013	590	17	< 0.11 U
MW-56	MW-56-201403	3/7/2014	618	15.3	0.15 J
MW-56	MW-56-201405	6/11/2014	307	17.6	0.16 J
MW-56	MW-56-201407	7/29/2014	516	19.3	< 0.50 U
MW-56	MW-56-201410	10/15/2014	408	12.1	< 0.50 U
MW-56	MW-56-201501	1/13/2015	326	10	< 0.50 U
MW-56	MW-56-201504	4/16/2015	495	8.2	< 0.13 U
MW-56R	MW-56R-201507	7/20/2015	156	8.0	0.31 J
MW-56R	MW-56R-201510	10/6/2015	278	18.1	0.42 J
MW-56R	MW-56R-201601	1/11/2016	408	19.2	0.32 J
MW-57	MW-57-20041210	12/10/2004	207	6.72	< 10 U
MW-57	MW-57-20050408	4/8/2005	282	6.83	< 10 U
MW-57	MW-57-20050928	9/28/2005	96	< 5 U	< 10 U
MW-57	MW-57-20060316	3/16/2006	254	7.56	< 10 U
MW-57	MW-57-20061013	10/13/2006	64	< 5 U	< 10 UJ
MW-57	MW-57-20070419	4/19/2007	201	3.77 J	< 10 U
MW-57	MW-57-20070920	9/20/2007	250	5 J	< 10 U
MW-57	MW-57-20080430	4/30/2008	14	< 5 U	< 10 U
MW-57	MW-57-20081210	12/10/2008	130	7.4	< 5 U
MW-57	MW-57-20090424	4/24/2009	96	4.2 J	< 5 U
MW-57	MW-57-20091027	10/27/2009	100	2.6 J	< 5 U
MW-57	MW-57-20100512	5/12/2010	210	6	< 5 U
MW-57	MW-57-20110323	3/23/2011	110	2.3 J	< 5 U
MW-57	MW-57-20111025	10/25/2011	59	2 J	< 5 U
MW-57	MW-57-20121020	10/20/2012	120	5.1	< 0.11 U
MW-57	MW-57-101713	10/17/2013	210	7.4	< 0.11 U
MW-57	MW-57-201403	3/7/2014	134	3.0 J	0.14 J
MW-57	MW-57-201405	6/11/2014	167	4.4 J	< 0.13 U
MW-57	MW-57-201407	7/29/2014	308	8.2	< 0.50 U
MW-57	MW-57-201410	10/15/2014	172	4.2 J	< 0.50 U
MW-57	MW-57-201501	1/13/2015	177	5.4	< 0.50 U
MW-57	MW-57-201504	4/16/2015	194	4.8	< 0.50 U
MW-57R	MW-57R-201507	7/20/2015	409	10.6	0.53 J
MW-57R	MW-57R-201510	10/6/2015	400	13.0	0.42 J
MW-57R	MW-57R-201601	1/11/2016	422	15.7	0.48 J
MW-58	MW-58-20041209	12/9/2004	526	14.5	< 10 U
MW-58	MW-58-20050407	4/7/2005	809	18.8	< 10 U
MW-58	MW-58-20050928	9/28/2005	486	10.9	< 10 U
MW-58	MW-58-20060316	3/16/2006	421	8.66	< 10 U
MW-58	MW-58-20061013	10/13/2006	620	14	< 10 UJ
MW-58	MW-58-20070419	4/19/2007	784	30.7	< 25 U
MW-58	MW-58-20070419-FD	4/19/2007	717	9.54 J	< 25 U
MW-58	MW-58-20070919	9/19/2007	650	17	< 10 U
MW-58	MW-58-20070919-FD	9/19/2007	640	16	< 10 U
MW-58	MW-58-20080430	4/30/2008	630	15	< 10 U
MW-58	MW-58-20080430-FD	4/30/2008	580	14	< 10 U
MW-58	MW-58-20081211	12/11/2008	530	12	< 5 U
MW-58	MW-58-20081211-FD	12/11/2008	510	13	< 5 U
MW-58	MW-58-20090425	4/25/2009	590	14	< 5 U
MW-58	MW-58-20090425-FD	4/25/2009	580	15	< 5 U
MW-58	MW-58-20091028	10/28/2009	480	11	< 5 U
MW-58	MW-58-20091028-FD	10/28/2009	480	11	< 5 U
MW-58	MW-58-20100512	5/12/2010	660	14	< 5 U
MW-58	MW-58-20101106-FD	11/6/2010	560	11	< 5 U
MW-58	MW-58-20101106	11/6/2010	580	12	< 5 U
MW-58	MW-58-20110324	3/24/2011	710	12	< 5 U
MW-58	MW-58-20110324-FD	3/24/2011	700	14	1.1 J
MW-58	MW-58-20121020	10/20/2012	440	18	0.84 J
MW-58	MW-58-101713	10/17/2013	410	13	1.5 J
MW-58	MW-58-20131017-FD	10/17/2013	420	12	1.1 J
MW-58	MW-58-201403	3/7/2014	293	22.3	0.93 J
MW-58	MW-58-201405	5/12/2014	397	12.1	0.72 J
MW-58	MW-58-201407	7/29/2014	399	12.7	0.76 J
MW-58	MW-58-201410	10/15/2014	360	10.8	0.68 J

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-58	MW-58-201501	1/14/2015	385	14.7	0.71 J
MW-58	MW-58-201504	4/16/2015	356	19.7	1.5
MW-58R	MW-58R-201507	7/21/2015	337	9.5	0.57 J
MW-58R	MW-58R-201510	10/8/2015	299	10.5	0.55 J
MW-58R	DUP-10-201601	1/12/2016	319	29.4	0.66 J
MW-58R	MW-58R-201601	1/12/2016	312	28.7	0.67 J
MW-60	MW-60-20050401	4/1/2005	< 5 U	< 5 U	< 10 U
MW-60	MW-60-20050930	9/30/2005	< 5 U	< 5 U	< 10 U
MW-60	MW-60-20060317	3/17/2006	< 5 U	< 5 U	< 10 U
MW-60	MW-60-20061012	10/12/2006	< 5 U	< 5 U	< 10 U
MW-60	MW-60-20070419	4/19/2007	< 5 U	< 5 U	< 10 U
MW-60	MW-60-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
MW-60	MW-60-20080429	4/29/2008	< 5 U	< 5 U	< 10 U
MW-60	MW-60-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-60	MW-60-20090424	4/24/2009	< 5 U	< 5 U	< 5 U
MW-60	MW-60-20091027	10/27/2009	< 5 U	< 5 U	< 5 U
MW-60	MW-60-20100511	5/11/2010	< 5 U	< 5 U	< 5 U
MW-60	MW-60-20101104	11/4/2010	< 5 U	< 5 U	< 5 U
MW-60	MW-60-20110323	3/23/2011	< 5 U	< 5 U	< 5 U
MW-60	MW-60-20111025	10/25/2011	< 5 U	< 5 U	< 5 U
MW-60	MW-60-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-60	MW-60-101513	10/15/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-60	MW-60-201403	3/6/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-60	MW-60-201405	5/13/2014	0.21 J	< 0.080 U	< 0.13 U
MW-60	MW-60-201407	7/28/2014	1.0 J	< 0.50 U	< 0.50 U
MW-60	MW-60-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-60	MW-60-201501	1/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-60	MW-60-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-60R	MW-60R-201507	7/21/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-60R	MW-60R-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-60R	MW-60R-201601	1/11/2016	0.22 J	< 0.080 U	< 0.13 U
MW-61	MW-61-20050401	4/1/2005	< 5 U	< 5 U	< 10 U
MW-61	MW-61-20050401-FD	4/1/2005	< 5 U	< 5 U	< 10 U
MW-61	MW-61-20050930	9/30/2005	< 5 U	< 5 U	< 10 U
MW-61	MW-61-20060317	3/17/2006	< 5 U	< 5 U	< 10 U
MW-61	MW-61-20061012	10/12/2006	< 5 U	< 5 U	< 10 U
MW-61	MW-61-20070419	4/19/2007	< 5 U	< 5 U	< 10 U
MW-61	MW-61-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
MW-61	MW-61-20080429	4/29/2008	< 5 U	< 5 U	< 10 U
MW-61	MW-61-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-61	MW-61-20090424	4/24/2009	4 J	< 5 U	< 5 U
MW-61	MW-61-20091027	10/27/2009	< 5 U	< 5 U	< 5 U
MW-61	MW-61-20100511	5/11/2010	< 5 U	< 5 U	< 5 U
MW-61	MW-61-20101104	11/4/2010	< 5 U	< 5 U	< 5 U
MW-61	MW-61-20110323	3/23/2011	1.8 J	< 5 U	< 5 U
MW-61	MW-61-20111025	10/25/2011	< 5 U	< 5 U	< 5 U
MW-61	MW-61-20121017	10/17/2012	2.4 J	< 0.56 U	< 0.11 U
MW-61	MW-61-101613	10/16/2013	4.0 J	< 0.56 U	< 0.11 U
MW-61	MW-61-201403	3/6/2014	4.7 J	< 0.080 U	< 0.13 U
MW-61	MW-61-201405	5/13/2014	6.6	< 0.080 U	< 0.13 U
MW-61	MW-61-201407	7/28/2014	8.1	< 0.50 U	< 0.50 U
MW-61	MW-61-201410	10/14/2014	7.9	< 0.50 U	< 0.50 U
MW-61	MW-61-201501	1/13/2015	10.2	< 0.50 U	< 0.50 U
MW-61	MW-61-201504	4/14/2015	10.9	< 0.50 U	< 0.50 U
MW-61R	MW-61R-201507	7/21/2015	14.7	< 0.080 U	< 0.13 U
MW-61R	MW-61R-GW-091815	9/18/2015	16.5	< 0.080 U	< 0.13 U
MW-61R	DUP-02-201510	10/8/2015	13.3	< 0.080 U	< 0.13 U
MW-61R	MW-61R-201510	10/8/2015	11.7	< 0.080 U	< 0.13 U
MW-61R	MW-61R-201511	11/4/2015	9.2	1.1	< 0.13 U
MW-61R	MW-61R-201601	1/8/2016	3.9	4.6	< 0.13 U
MW-62	MW-62-20050401	4/1/2005	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20050930	9/30/2005	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20060316	3/16/2006	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20061012	10/12/2006	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20070419	4/19/2007	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20080429	4/29/2008	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-62	MW-62-20090424	4/24/2009	< 5 U	< 5 U	< 5 U
MW-62	MW-62-20091027	10/27/2009	< 5 U	< 5 U	< 5 U
MW-62	MW-62-20100511	5/11/2010	< 5 U	< 5 U	< 5 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-62	MW-62-20110323	3/23/2011	< 5 U	< 5 U	< 5 U
MW-62	MW-62-20111025	10/25/2011	1.9 J	< 5 U	< 5 U
MW-62	MW-62-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-62	MW-62-101713	10/17/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-62	MW-62-201403	3/7/2014	0.18 J	< 0.080 U	< 0.13 U
MW-62	MW-62-201405	5/14/2014	0.62 J	< 0.080 U	< 0.13 U
MW-62	MW-62-201407	7/29/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-62	MW-62-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-62	MW-62-201501	1/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-62	MW-62-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-62R	MW-62R-201507	7/21/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-62R	MW-62R-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-62R	MW-62R-201601	1/11/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-63	MW-63-20050401	4/1/2005	8.14	< 5 U	< 10 U
MW-63	MW-63-20050930	9/30/2005	< 5 U	< 5 U	< 10 U
MW-63	MW-63-20060316	3/16/2006	9.76	< 5 U	< 10 U
MW-63	MW-63-20060406	4/6/2006	11.6	< 5 U	< 10 U
MW-63	MW-63-20061012	10/12/2006	4 J	< 5 U	< 10 U
MW-63	MW-63-20070419	4/19/2007	4.08 J	< 5 U	< 10 U
MW-63	MW-63-20070919	9/19/2007	8	< 5 U	< 10 U
MW-63	MW-63-20080430	4/30/2008	3 J	< 5 U	< 10 U
MW-63	MW-63-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-63	MW-63-20090424	4/24/2009	4.3 J	< 5 U	< 5 U
MW-63	MW-63-20091027	10/27/2009	7.7	< 5 U	< 5 U
MW-63	MW-63-20100511	5/11/2010	7.6	< 5 U	< 5 U
MW-63	MW-63-20101106	11/6/2010	11	< 5 U	< 5 U
MW-63	MW-63-20110323	3/23/2011	12	< 5 U	< 5 U
MW-63	MW-63-20111025	10/25/2011	9.8	< 5 U	< 5 U
MW-63	MW-63-20121019	10/19/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-63	MW-63-101713	10/17/2013	7.5	< 0.56 U	< 0.11 U
MW-63	MW-63-201403	3/7/2014	9.4	1.3 J	< 0.13 U
MW-63	MW-63-201405	5/14/2014	12.2	0.61 J	0.13 J
MW-63	MW-63-201407	7/28/2014	8.3	0.99 J	< 0.50 U
MW-63	MW-63-201410	10/14/2014	9.4	0.98 J	< 0.50 U
MW-63	MW-63-201501	1/13/2015	8.2	1.0	< 0.50 U
MW-63	MW-63-201504	4/14/2015	9.2	0.99 J	< 0.50 U
MW-63R	MW-63R-201507	7/21/2015	5.6	0.70 J	< 0.13 U
MW-63R	MW-63R-201510	10/8/2015	3.9	0.70 J	< 0.13 U
MW-63R	MW-63R-201601	1/12/2016	3.2	0.39 J	< 0.13 U
MW-65	MW-65-20061011	10/11/2006	470	19	< 10 U
MW-65	MW-65-20061011-FD	10/11/2006	560	18	< 10 U
MW-65	MW-65-20070419	4/19/2007	1350	23.4	< 10 U
MW-65	MW-65-20070920	9/20/2007	580	17	< 10 U
MW-65	MW-65-20080430	4/30/2008	570	16	< 10 U
MW-65	MW-65-20081211	12/11/2008	460	11	< 5 U
MW-65	MW-65-20090424	4/24/2009	620	19	< 5 U
MW-65	MW-65-20101107	11/7/2010	400	11	< 5 U
MW-65	MW-65-20110304-FS	3/4/2011	370	13	< 0.85 U
MW-65	MW-65-20111025	10/25/2011	310	10	< 5 U
MW-65	MW-65-20121020	10/20/2012	280	8.9	< 0.11 U
MW-65	MW-65-101713	10/17/2013	220	8.6	< 0.11 U
MW-65	MW-65-201403	3/8/2014	199	6.6	< 0.13 U
MW-65	MW-65-201405	5/14/2014	195	6.9	< 0.13 U
MW-65	MW-65-201407	7/30/2014	17.1	< 0.50 U	< 0.50 U
MW-65	MW-65-201410	10/14/2014	30.8	0.54 J	< 0.50 U
MW-65	MW-65-201501	1/13/2015	19.2	< 0.50 U	< 0.50 U
MW-65	MW-65-201504	4/15/2015	16.0	< 0.50 U	< 0.50 U
MW-65	MW-65-201507	7/20/2015	26.3	0.38 J	< 0.13 U
MW-65	MW-65-201510	10/7/2015	0.28 J	< 0.080 U	< 0.13 U
MW-65	MW-65-201511	11/4/2015	7.7	< 0.080 U	< 0.13 U
MW-65	MW-65-201601	1/11/2016	14.5	0.32 J	< 0.13 U
MW-66	MW-66-20060406	4/6/2006	< 5 U	< 5 U	< 10 U
MW-66	MW-66-20061012	10/12/2006	2 J	< 5 U	< 10 U
MW-66	MW-66-20070418	4/18/2007	< 5 U	< 5 U	< 10 U
MW-66	MW-66-20070919	9/19/2007	4 J	< 5 U	< 10 U
MW-66	MW-66-20080429	4/29/2008	< 5 U	< 5 U	< 10 U
MW-66	MW-66-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-66	MW-66-20090425	4/25/2009	< 5 U	< 5 U	< 5 U
MW-66	MW-66-20091028	10/28/2009	< 5 U	< 5 U	< 5 U
MW-66	MW-66-20100511	5/11/2010	< 5 U	< 5 U	< 5 U
MW-66	MW-66-20101103	11/3/2010	< 5 U	< 5 U	< 5 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-66	MW-66-20110324	3/24/2011	1.6 J	< 5 U	< 5 U
MW-66	MW-66-20111026	10/26/2011	1.8 J	< 5 U	< 5 U
MW-66	MW-66-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-66	MW-66-101713	10/17/2013	2.1 J	< 0.56 U	< 0.11 U
MW-66	MW-66-201403	3/7/2014	3.5 J	< 0.080 U	< 0.13 U
MW-66	MW-66-201405	5/13/2014	3.1 J	< 0.080 U	< 0.13 U
MW-66	MW-66-201407	7/28/2014	2.6 J	< 0.50 U	< 0.50 U
MW-66	MW-66-201410	10/13/2014	2.3 J	< 0.50 U	< 0.50 U
MW-66	MW-66-201501	1/14/2015	2.4	< 0.50 U	< 0.50 U
MW-66	MW-66-201504	4/15/2015	2.6	< 0.50 U	< 0.50 U
MW-66	MW-66-201507	7/20/2015	3.3	0.22 J	< 0.13 U
MW-66	MW-66-201510	10/6/2015	2.3	0.18 J	< 0.13 U
MW-66	MW-66-201601	1/11/2016	0.53 J	< 0.080 U	< 0.13 U
MW-67	MW-67-20060406	4/6/2006	< 5 U	< 5 U	< 10 U
MW-67	MW-67-20061012	10/12/2006	1 J	< 5 U	< 10 U
MW-67	MW-67-20070419	4/19/2007	< 5 U	< 5 U	< 10 U
MW-67	MW-67-20070918	9/18/2007	< 5 U	< 5 U	< 10 U
MW-67	MW-67-20080429	4/29/2008	< 5 U	< 5 U	< 10 U
MW-67	MW-67-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20090425	4/25/2009	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20091028	10/28/2009	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20100511	5/11/2010	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20101103	11/3/2010	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20110324	3/24/2011	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20111026	10/26/2011	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-67	MW-67-101713	10/17/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-67	MW-67-201403	3/7/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-67	MW-67-201405	5/13/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-67	MW-67-201407	7/28/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-67	MW-67-201410	10/13/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-67	MW-67-201501	1/12/2015	1.3	< 0.50 U	< 0.50 U
MW-67	MW-67-201504	4/15/2015	0.77 J	< 0.50 U	< 0.50 U
MW-67R	MW-67R-201507	7/20/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-67R	MW-67R-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-67R	MW-67R-201601	1/11/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-68	MW-68-20090115	1/15/2009	< 5 U	< 5 U	< 5 U
MW-68	MW-68-20090424	4/24/2009	< 5 U	< 5 U	< 5 U
MW-68	MW-68-20091028	10/28/2009	< 5 U	< 5 U	< 5 U
MW-68	MW-68-20100513	5/13/2010	< 5 U	< 5 U	< 5 U
MW-68	MW-68-20101106	11/6/2010	9.5	< 5 U	< 5 U
MW-68	MW-68-20111026	10/26/2011	< 5 U	< 5 U	< 5 U
MW-68	MW-68-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-68	MW-68-101613	10/16/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-68	MW-68-201403	3/6/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-68	MW-68-201405	5/14/2014	0.49 J	< 0.080 U	< 0.13 U
MW-68	MW-68-201407	7/29/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-68	MW-68-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-68	MW-68-201501	1/12/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-68	MW-68-201504	4/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-68	MW-68-201507	7/20/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-68	MW-68-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-68	MW-68-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-70	MW-70-20101104	11/4/2010	540	14	< 5 U
MW-70	MW-70-20110322	3/22/2011	170	9.2	1.2 J
MW-70	MW-70-20111026	10/26/2011	320	7.7	< 5 U
MW-70	MW-70-20120418	4/18/2012	330	11	< 5 U
MW-70	MW-70-20121018	10/18/2012	200	11	< 0.11 U
MW-70	MW-70-20130423	4/23/2013	180	3.6 J	0.32 J
MW-70	MW-70-101613	10/16/2013	270	7.2	0.30 J
MW-71	MW-71-20091028	10/28/2009	190	6.3	< 5 U
MW-71	MW-71-20100513	5/13/2010	160	7.4	< 5 U
MW-71	MW-71-20101104	11/4/2010	250	7.2	< 5 U
MW-71	MW-71-20110322	3/22/2011	76	1.6 J	< 5 U
MW-71	MW-71-20111026	10/26/2011	130	2.7 J	< 5 U
MW-71	MW-71-20120418	4/18/2012	160	5.3	< 5 U
MW-71	MW-71-20121020	10/20/2012	210	7.3	< 0.11 U
MW-71	MW-71-20130423	4/23/2013	220	4.8 J	0.23 J
MW-71	MW-71-101613	10/16/2013	160	6.1	0.57 J
MW-71	MW-71-201403	3/7/2014	166	5.8	0.19 J
MW-71	MW-71-201405	5/13/2014	164	5.3	0.33 J

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-71	MW-71-201407	7/29/2014	181	6.4	< 0.50 U
MW-71	MW-71-201410	10/14/2014	185	6.0	< 0.50 U
MW-71	MW-71-201501	1/14/2015	170	6.0	< 0.50 U
MW-71	MW-71-201504	4/14/2015	156	5.7	< 0.50 U
MW-71	MW-71-201507	7/20/2015	165	5.3	0.48 J
MW-71	MW-71-201510	10/6/2015	179	6.5	0.43 J
MW-71	MW-71-201601	1/11/2016	171	6.1	0.40 J
MW-81	MW-81-201405	5/29/2014	512	14.3	0.21 J
MW-81	20140708-GW-MW-81	7/9/2014	518	11.4	< 0.50 U
MW-81	MW-81-201409	9/11/2014	463	13.5	< 0.50 U
MW-81	MW-81-201501	1/13/2015	385	9.9	< 0.50 U
MW-81	MW-81-201504	4/15/2015	198	4.2	< 0.50 U
MW-81	MW-81-201507	7/22/2015	275	7.7	< 0.13 U
MW-81	MW-81-201510	10/8/2015	160	3.8	< 0.13 U
MW-81	MW-81-201511	11/5/2015	233	6.5	< 0.13 U
MW-81	MW-81-201601	1/11/2016	157	3.9	< 0.13 U
MW-82	MW-82-201405	5/28/2014	285	4.8 J	0.14 J
MW-82	20140708-GW-MW-82	7/9/2014	48.2	1.2 J	< 0.50 U
MW-82	MW-82-201409	9/11/2014	50.0	1.1 J	< 0.50 U
MW-82	MW-82-201501	1/13/2015	66.0	1.2	< 0.50 U
MW-82	MW-82-201504	4/15/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-82	MW-82-201507	7/22/2015	5.3	< 0.080 U	< 0.13 U
MW-82	MW-82-201510	10/6/2015	4.2	< 0.080 U	< 0.13 U
MW-82	MW-82-201601	1/11/2016	5.6	0.18 J	< 0.13 U
MW-83	MW-83-20140523	5/23/2014	470	8.3	< 0.13 U
MW-83	MW-83-201409	9/12/2014	213	4.9 J	< 0.50 U
MW-83	MW-83-20141023	10/23/2014	210	5.2	< 0.50 U
MW-83	MW-83-201501	1/15/2015	101	1.8	< 0.50 U
MW-83	MW-83-201504	4/16/2015	151	2.8	< 0.50 U
MW-83	MW-83-201507	7/22/2015	27.9	0.49 J	< 0.13 U
MW-83	MW-83-201510	10/8/2015	9.8	0.25 J	< 0.13 U
MW-83	MW-83-201511	11/5/2015	3.2	< 0.080 U	< 0.13 U
MW-83	MW-83-201601	1/7/2016	1.1	< 0.080 U	< 0.13 U
MW-84	MW-84-201405	5/27/2014	214	4.6 J	0.16 J
MW-84	MW-84-201409A	9/12/2014	0.93 J	< 0.50 U	< 0.50 U
MW-84	MW-84-20141023	10/23/2014	0.68 J	< 0.50 U	< 0.50 U
MW-84	MW-84-201501	1/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-84	MW-84-201504	4/16/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-84	MW-84-201507	7/23/2015	0.29 J	< 0.080 U	< 0.13 U
MW-84	MW-84-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-84	MW-84-201601	1/7/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-85	MW-85-201405	5/29/2014	1970	99.4	23.1
MW-85	20140708-GW-MW-85	7/8/2014	3780	133	3.9
MW-85	MW-85-201409	9/11/2014	5820	226 J	35.3
MW-85	MW-85-20141205	12/5/2014	27700	280	7.7
MW-85	MW-85-201501	1/15/2015	5940	167	1.1
MW-85	MW-85-201504	4/16/2015	256	16.8	< 0.50 U
MW-85	MW-85-201507	7/23/2015	132	6.3	< 0.13 U
MW-85	MW-85-201510	10/8/2015	12000	52.6	1.8
MW-85	MW-85-201601	1/13/2016	6980	32.8	0.70 J
MW-86	MW-86-201405	5/29/2014	533000	1220 J	341 J
MW-86	MW-86-201409	9/11/2014	129000	91.6	4.1
MW-86	MW-86-20141205	12/5/2014	169000	290 E	24.7
MW-86	MW-86-201501	1/15/2015	81200	128	4.5
MW-86	MW-86-201504	4/16/2015	46700	128	5.8
MW-86	MW-86-201507	7/23/2015	65100	292 J	46.7
MW-86	MW-86-201510	10/8/2015	131000	1020	127
MW-86	MW-86-201601	1/13/2016	95500	610 J	57.1
MW-87	20140625-GW-MW-87	6/25/2014	564	41.8	< 0.50 U
MW-87	MW-87-201410	10/16/2014	594	47.8	< 0.50 U
MW-87	MW-87-201501	1/14/2015	661	51.3	< 0.50 U
MW-87	MW-87-201504	4/16/2015	758	58.6	0.33 J
MW-87	MW-87-201507	7/23/2015	758	56.5	0.34 J
MW-87	MW-87-201510	10/7/2015	708	54.5	0.31 J
MW-87	DUP-09-201601	1/13/2016	781	63.2	0.40 J
MW-87	MW-87-201601	1/13/2016	757	61.9	0.47 J
MW-88	20140624-GW-MW-88	6/24/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-88	MW-88-201410	10/16/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-88	MW-88-201501	1/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-88	MW-88-201504	4/16/2015	0.58 J	< 0.50 U	< 0.50
MW-88	MW-88-201507	7/23/2015	< 0.17 U	< 0.080 U	< 0.13 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-88	MW-88-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-88	MW-88-201601	1/12/2016	0.58 J	< 0.080 U	< 0.13 U
MW-89	20140624-GW-MW-89	6/24/2014	19.5	< 0.50 U	< 0.50 U
MW-89	MW-89-201410	10/15/2014	11.3	< 0.50 U	< 0.50 U
MW-89	MW-89-201501	1/13/2015	11.4	< 0.50 U	< 0.50 U
MW-89	MW-89-201504	4/16/2015	15.9	< 0.50 U	< 0.50
MW-89	MW-89-201507	7/23/2015	14.5	0.18 J	< 0.13 U
MW-89	MW-89-201510	10/7/2015	12.7	0.24 J	< 0.13 U
MW-89	MW-89-201601	1/12/2016	11.6	0.20 J	< 0.13 U
MW-90	20140625-GW-MW-90	6/25/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-90	MW-90-201410	10/16/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-90	MW-90-201501	1/12/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-90	MW-90-201504	4/15/2015	< 0.50 U	< 0.50 U	< 0.50
MW-90	MW-90-201507	7/22/2015	0.38 J	< 0.080 U	< 0.13 U
MW-90	MW-90-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-90	MW-90-201601	1/12/2016	0.25 J	< 0.080 U	< 0.13 U
MW-91	20140625-GW-MW-91	6/25/2014	234	21.7	< 0.50 U
MW-91	MW-91-201410	10/16/2014	319	28.8	< 0.50 U
MW-91	DUP-07-201501	1/13/2015	317	31.0	< 0.50 U
MW-91	MW-91-201501	1/13/2015	354	31.5	< 0.50 U
MW-91	MW-91-201504	4/16/2015	438	36.6	0.18 J
MW-91	MW-91-201507	7/23/2015	411	34.8	0.23 J
MW-91	DUP-08-201510	10/7/2015	442	35.7	0.19 J
MW-91	MW-91-201510	10/7/2015	405	35.2	0.17 J
MW-91	DUP-08-201601	1/13/2016	422	38.6	0.24 J
MW-91	MW-91-201601	1/13/2016	413	36.1	0.24 J
MW-92	MW-92-20141022	10/22/2014	2160	16.0	7.2
MW-92	MW-92-20141204	12/4/2014	2200	23.4	10.3
MW-92	MW-92-201501	1/15/2015	1410	10.4	4.6
MW-92	MW-92-201504	4/16/2015	736	5.4	2.1
MW-92	MW-92-201507	7/23/2015	617	6.7	1.0
MW-92	MW-92-201510	10/8/2015	1400	10.8	1.4
MW-92	MW-92-201601	1/13/2016	1840	7.1	0.66 J
MW-93	MW-93-20141022	10/22/2014	18200	145	5.0
MW-93	MW-93-20141204	12/4/2014	14600	85.7	2.5
MW-93	MW-93-201501	1/15/2015	18000	131	3.4
MW-93	MW-93-201504	4/16/2015	21500	160	3.9
MW-93	MW-93-201507	7/23/2015	20800	164	3.4
MW-93	MW-93-201510	10/8/2015	21100	120	3.3
MW-93	MW-93-201601	1/13/2016	21200	103	2.6
MW-94	MW-94-20141022	10/22/2014	11100	309 J	2.5
MW-94	MW-94-20141204	12/4/2014	9570	250 J	3.0
MW-94	MW-94-201501	1/15/2015	9530	297	2.4
MW-94	MW-94-201504	4/16/2015	11800	325	1.3
MW-94	MW-94-201507	7/23/2015	3890	119	0.61 J
MW-94	MW-94-201510	10/8/2015	1990	59.5	0.25 J
MW-94	MW-94-201601	1/13/2016	936	30.3	< 0.13 U
MW-95	MW-95-20141022	10/22/2014	22300	151	25.7
MW-95	MW-95-20141204	12/4/2014	20900	159	29.9
MW-95	MW-95-201501	1/15/2015	21100	177	25.6
MW-95	MW-95-201504	4/16/2015	26700	184	14.9
MW-95	MW-95-201507	7/23/2015	25200	181	17.1
MW-95	MW-95-201510	10/8/2015	26300	161	32.0
MW-95	MW-95-201601	1/13/2016	24700	161	31.0
MW-96	MW-96-20141022	10/22/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-96	MW-96-201501	1/15/2015	0.59 J	< 0.50 U	< 0.50 U
MW-96	DUP-06-201504	4/16/2015	< 0.50 U	< 0.50 U	< 0.50
MW-96	MW-96-201504	4/16/2015	< 0.50 U	< 0.50 U	< 0.50
MW-96	DUP-06-201507	7/23/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-96	MW-96-201507	7/23/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-96	MW-96-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-96	MW-96-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-97	MW-97-20141022	10/22/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-97	MW-97-201501	1/15/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-97	MW-97-201504	4/16/2015	< 0.50 U	< 0.50 U	< 0.50
MW-97	MW-97-201507	7/23/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-97	MW-97-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-97	MW-97-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-98	MW-98-GW-2014 1029	10/29/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-98	MW-98-201501	1/15/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-98	MW-98-201504	4/16/2015	< 0.50 U	< 0.50 U	< 0.50

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-98	MW-98-201507	7/23/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-98	MW-98-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-98	MW-98-201601	1/11/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-99	MW-99-20141022	10/22/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-99	MW-99-201501	1/15/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-99	MW-99-201504	4/16/2015	< 0.50 U	< 0.50 U	< 0.50
MW-99	MW-99-201507	7/23/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-99	MW-99-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-99	MW-99-201601	1/11/2016	0.21 J	< 0.080 U	< 0.13 U
MW-172	MW-172-20141022	10/22/2014	3010	21.4	2.4
MW-172	MW-172-20141205	12/5/2014	1810	15.6	1.3 J
MW-172	MW-172-201501	1/15/2015	3600	22.4	1.2
MW-172	MW-172-201504	4/16/2015	1740	11.9	0.92 J
MW-172	MW-172-201507	7/23/2015	2140	12.4	0.69 J
MW-172	MW-172-201510	10/8/2015	2110	12.4	0.51 J
MW-172	MW-172-201601	1/13/2016	3190	13.5	< 0.13 U
MW-173	MW-173-201504	4/15/2015	< 0.50 U	< 0.50 U	< 0.50
MW-173	MW-173-201507	7/22/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-173	MW-173-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-173	MW-173-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-174	MW-174-GW-20150120	1/20/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-174	MW-174-201504	4/14/2015	0.68 J	< 0.50 U	< 0.50
MW-174	MW-174-201507	7/21/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-174	MW-174-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-174	MW-174-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-175	MW-175-GW-20150120	1/20/2015	123	2.0	< 0.50 U
MW-175	MW-175-201504	4/15/2015	98.8	1.5	< 0.50
MW-175	MW-175-201507	7/21/2015	20.3	0.32 J	< 0.13 U
MW-175	MW-175-201510	10/7/2015	78.6	1.6	0.19 J
MW-175	MW-175-201601	1/11/2016	52.6	1.1	< 0.13 U
MW-176	MW-176-GW-20150120	1/20/2015	720	16.8	0.57 J
MW-176	MW-176-201504	4/14/2015	528	16.7	0.69 J
MW-176	MW-176-201507	7/21/2015	575	21.5	0.79 J
MW-176	MW-176-201510	10/6/2015	420	111	1.2
MW-176	MW-176-201601	1/12/2016	306	125	1.3
MW-177	MW-177-GW-20150121	1/21/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-177	MW-177-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-177	MW-177-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-177	MW-177-201601	1/11/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-178	MW-178-GW-20150118	1/18/2015	5.2	0.99 J	< 0.50 U
MW-178	MW-178-201504	4/16/2015	5.0	1.3	< 0.50 U
MW-178	MW-178-201507	7/22/2015	4.6	1.1	< 0.13 U
MW-178	MW-178-201510	10/7/2015	5.8	1.4	< 0.13 U
MW-179	MW-179-201504	4/16/2015	41.2	1.6	< 0.50
MW-179	MW-179-201507	7/22/2015	27.3	1.1	< 0.13 U
MW-179	MW-179-201601	1/13/2016	30.6	1.1	< 0.13 U
MW-180	MW-180-GW-20150119	1/19/2015	23.7	3.4	< 0.50 U
MW-180	MW-180-201504	4/16/2015	21.4	3.8	< 0.50
MW-180	MW-180-201507	7/22/2015	22.1	3.0	< 0.13 U
MW-180	MW-180-201510	10/7/2015	18.5	3.0	< 0.13 U
MW-180	MW-180-201601	1/14/2016	10.6	1.5	< 0.13 U
MW-181	MW-181-GW-20150121	1/21/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-181	MW-181-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-181	MW-181-201507	7/21/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-181	MW-181-201601	1/11/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-182	MW-182-201507	7/23/2015	193	17.8	0.28 J
MW-182	MW-182-201510	10/5/2015	196	17.2	0.25 J
MW-182	MW-182-201601	1/13/2016	258	19.9	0.30 J
RW-69	RW-69-20090115	1/15/2009	170	7.1	< 5 U
RW-69	RW-69-20090424	4/24/2009	62	< 5 U	< 5 U
RW-69	RW-69-20090527	5/27/2009	290	10	< 5 U
RW-69	RW-69-20091221-FS	12/21/2009	200	6.3	< 1.6 U
RW-69	RW-69-20100513	5/13/2010	170	8.2	< 5 U
RW-69	RW-69-20101104	11/4/2010	320	9	< 5 U
RW-69	RW-69-20110303-FS	3/3/2011	200	7.1	< 0.85 U
RW-69	RW-69-20110523-FS	5/23/2011	130	3.0 J	NT
RW-69	RW-69-20111026	10/26/2011	210	5.7	< 5 U
RW-69	RW-69-20120418	4/18/2012	150	3.6 J	< 5 U
RW-69	RW-69-20121018	10/18/2012	180	5.0	< 0.11 U
RW-69	RW-69-20130423	4/23/2013	190	2.8 J	< 0.11 U
RW-69	RW-69-101613	10/16/2013	190	7.7	< 0.11 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
RW-69	RW-69-201403	3/7/2014	105	3.5 J	0.41 J
RW-69	RW-69-201405	5/13/2014	110	3.3 J	0.30 J
RW-69	RW-69-201407	7/29/2014	164	5.6	0.50 J
RW-69	RW-69-201410	10/14/2014	173	6.9	< 0.50 U
RW-69	RW-69-201501	1/14/2015	115	4.7	< 0.50 U
RW-69	RW-69-201504	4/14/2015	113	4.5	< 0.50 U
RW-69	RW-69-201507	7/21/2015	135	5.5	0.31 J
RW-69	RW-69-201510	10/6/2015	184	6.7	0.24 J
RW-69	RW-69-201601	1/12/2016	128	4.6	< 0.13 U

Notes:

µg/L: Micrograms per liter

E,J: Estimated concentration

ND: Result is not detected at the associated method quantitation limit

NT: Analyte not tested

U: Not detected (MDL included where available, RDL included for older analyses)

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)	
ITMW-1	ITMW-1-19891101	11/1/1989	ND	NT	ND	
ITMW-1	ITMW-1-19900101	1/1/1990	ND	NT	ND	
ITMW-1	ITMW-1-19931101	11/1/1993	10	NT	ND	
ITMW-1	ITMW-1-19961201	12/1/1996	21	NT	ND	
ITMW-1	ITMW-1-19990201	2/1/1999	37	ND	ND	
ITMW-1	ITMW-1-20000301	3/1/2000	125	8	ND	
ITMW-1	ITMW-1-20000919	9/19/2000	30.7	7.45	< 10	U
ITMW-1	ITMW-1-20010327	3/27/2001	30	6	< 10	U
ITMW-1	ITMW-1-20010911	9/11/2001	27	9	< 10	U
ITMW-1	ITMW-1-20020910	9/10/2002	35	9	< 10	U
ITMW-1	ITMW-1-20030227	2/27/2003	29.6	7.14	< 10	U
ITMW-1	ITMW-1-20030923	9/23/2003	25	12	< 10	U
ITMW-1	ITMW-1-20040413	4/13/2004	42.2	11.1	< 10	U
ITMW-1	ITMW-1-20040921	9/21/2004	26	16.7	< 10	U
ITMW-1	ITMW-1-20040921-FD	9/21/2004	26.1	15.8	< 10	U
ITMW-1	ITMW-1-20050928	9/28/2005	34.7	11.3	< 10	U
ITMW-1	ITMW-1-20061014	10/14/2006	20	11	< 10	UJ
ITMW-1	ITMW-1-20070920	9/20/2007	18	13	< 10	U
ITMW-1	ITMW-1-20081209	12/9/2008	14	7.3	< 5	U
ITMW-1	ITMW-1-20111027	10/27/2011	17	8.2	< 5	U
ITMW-1	ITMW-1-20120418	4/18/2012	32	13	< 5	U
ITMW-1	ITMW-1-20121019	10/19/2012	10	8.3	< 0.11	U
ITMW-1	ITMW-1-20130424	4/24/2013	26	9.1	< 0.11	U
ITMW-1	ITMW-1-101513	10/15/2013	7.2	5.8	< 0.11	U
ITMW-1	ITMW-1-201403	3/8/2014	23.4	8.9	< 0.13	U
ITMW-1	ITMW-1-201405	5/13/2014	21.3	8.7	< 0.13	U
ITMW-1	DUP-5-201407	7/30/2014	9.2	5.7	< 0.50	U
ITMW-1	ITMW-1-201407	7/30/2014	8.9	5.4	< 0.50	U
ITMW-1	ITMW-1-201410	10/15/2014	6.1	4.5 J	< 0.50	U
ITMW-1	ITMW-1-201501	1/14/2015	22.7	9.7	< 0.50	U
ITMW-1	ITMW-1-201504	4/15/2015	19.2	9.7	< 0.50	U
ITMW-1	ITMW-1-201507	7/22/2015	10.5	5.3	< 0.13	U
ITMW-1	ITMW-1-201510	10/7/2015	7.8	4.4	< 0.13	U
ITMW-1	ITMW-1-201601	1/13/2016	19.9	8.9	< 0.13	U
ITMW-2	ITMW-2-19891001	10/1/1989	ND	NT	ND	
ITMW-2	ITMW-2-19891101	11/1/1989	ND	NT	ND	
ITMW-2	ITMW-2-19900101	1/1/1990	ND	NT	ND	
ITMW-2	ITMW-2-19900101-FD	1/1/1990	ND	NT	ND	
ITMW-2	ITMW-2-19910301	3/1/1991	ND	NT	ND	
ITMW-2	ITMW-2-19931101	11/1/1993	4	NT	ND	
ITMW-2	ITMW-2-19961201	12/1/1996	3.4	NT	ND	
ITMW-2	ITMW-2-20000301	3/1/2000	ND	ND	ND	
ITMW-2	ITMW-2-20000919	9/19/2000	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20010327	3/27/2001	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20010913	9/13/2001	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20020911	9/11/2002	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20030227	2/27/2003	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20030923	9/23/2003	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20040413	4/13/2004	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20040413-FD	4/13/2004	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20040921	9/21/2004	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20040921-FD	9/21/2004	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20050929	9/29/2005	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20061014	10/14/2006	4 J	< 5 U	< 10	U
ITMW-2	ITMW-2-20070920	9/20/2007	< 5 U	< 5 U	< 10	U
ITMW-2	ITMW-2-20081209	12/9/2008	< 5 U	< 5 U	< 5	U
ITMW-2	ITMW-2-20101103	11/3/2010	< 5 U	< 5 U	< 5	U
ITMW-2	ITMW-2-20111026	10/26/2011	< 5 U	< 5 U	< 5	U
ITMW-2	ITMW-2-20120417	4/17/2012	< 5 U	< 5 U	< 5	U
ITMW-2	ITMW-2-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11	U
ITMW-2	ITMW-2-20130424	4/24/2013	< 1.6 U	< 0.56 U	< 0.11	U
ITMW-2	ITMW-2-101413	10/14/2013	< 1.6 U	< 0.56 U	< 0.11	U
ITMW-2	ITMW-2-201403	3/6/2014	0.23 J	0.40 J	< 0.13	U
ITMW-2	ITMW-2-201403-FD	3/6/2014	0.28 J	0.51 J	< 0.13	U
ITMW-2	ITMW-2-201405	5/13/2014	< 0.17 U	< 0.080 U	< 0.13	U
ITMW-2	ITMW-2-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50	U
ITMW-2	ITMW-2-201410	10/15/2014	< 0.50 U	< 0.50 U	< 0.50	U
ITMW-2	ITMW-2-201501	1/13/2015	< 0.50 U	< 0.50 U	< 0.50	U
ITMW-2	ITMW-2-201504	4/15/2015	< 0.50 U	< 0.50 U	< 0.50	U
ITMW-2	ITMW-2-201507	7/22/2015	0.24 J	0.26 J	< 0.13	U
ITMW-2	ITMW-2-201510	10/6/2015	0.22 J	0.21 J	< 0.13	U
ITMW-2	ITMW-2-201601	1/12/2016	0.21 J	0.42 J	< 0.13	U
ITMW-3	ITMW-3-19891001	10/1/1989	ND	NT	ND	
ITMW-3	ITMW-3-19900101	1/1/1990	ND	NT	ND	
ITMW-3	ITMW-3-19931101	11/1/1993	3	NT	ND	
ITMW-3	ITMW-3-19961201	12/1/1996	1.7	NT	ND	

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
ITMW-3	ITMW-3-19990201	2/1/1999	ND	ND	ND
ITMW-3	ITMW-30-20000301-FD	3/1/2000	ND	ND	ND
ITMW-3	ITMW-3-20000301	3/1/2000	ND	ND	ND
ITMW-3	ITMW-3-20000919	9/19/2000	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20010327	3/27/2001	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20010911	9/11/2001	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20020910	9/10/2002	15	< 5 U	< 10 U
ITMW-3	ITMW-3-20030227	2/27/2003	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20030923	9/23/2003	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20040413	4/13/2004	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20040921	9/21/2004	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20050928	9/28/2005	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20061014	10/14/2006	< 5 U	< 5 U	< 10 UJ
ITMW-3	ITMW-3-20070920	9/20/2007	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20081209	12/9/2008	< 5 U	< 5 U	< 5 U
ITMW-3	ITMW-3-20101104	11/4/2010	190	3.9 J	< 5 U
ITMW-3	ITMW-3-20111027	10/27/2011	4.1 J	< 5 U	< 5 U
ITMW-3	ITMW-3-20120417	4/17/2012	< 5 U	< 5 U	< 5 U
ITMW-3	ITMW-3-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
ITMW-3	ITMW-3-20130423	4/23/2013	< 1.6 U	< 0.56 U	< 0.11 U
ITMW-3	ITMW-3-101513	10/15/2013	< 1.6 U	< 0.56 U	< 0.11 U
ITMW-4	ITMW-4-19891001	10/1/1989	ND	NT	ND
ITMW-4	ITMW-4-19891101	11/1/1989	ND	NT	ND
ITMW-4	ITMW-4-19900101	1/1/1990	ND	NT	ND
ITMW-4	ITMW-4-19931101	11/1/1993	ND	NT	ND
ITMW-4	ITMW-4-19961201	12/1/1996	75	NT	ND
ITMW-4	ITMW-4-19990201	2/1/1999	93	54	ND
ITMW-4	ITMW-4-20000301	3/1/2000	22	16	ND
ITMW-4	ITMW-4-20000920	9/20/2000	13.9	10.6	< 10 U
ITMW-4	ITMW-4-20010328	3/28/2001	9	< 5 U	< 10 U
ITMW-4	ITMW-4-20010913	9/13/2001	6	8	< 10 U
ITMW-4	ITMW-4-20020910	9/10/2002	9	< 5 U	< 10 U
ITMW-4	ITMW-4-20030228	2/28/2003	< 5 U	< 5 U	< 10 U
ITMW-4	ITMW-4-20030923	9/23/2003	< 5 U	< 5 U	< 10 U
ITMW-4	ITMW-4-20040414	4/14/2004	< 5 U	< 5 U	< 10 U
ITMW-4	ITMW-4-20040922	9/22/2004	< 5 U	< 5 U	< 10 U
ITMW-4	ITMW-4-20050927	9/27/2005	< 5 U	< 5 U	< 10 U
ITMW-4	ITMW-4-20061011	10/11/2006	6	8	< 10 U
ITMW-4	ITMW-4-20070920	9/20/2007	5 J	5 J	< 10 U
ITMW-4	ITMW-4-20081209	12/9/2008	< 5 U	3.2 J	< 5 U
ITMW-4	ITMW-4-20111025	10/25/2011	4.8 J	5.1	< 5 U
ITMW-4	ITMW-4-20121017	10/17/2012	3.3 J	4.5 J	7.9
ITMW-4	ITMW-4-101413	10/14/2013	3.7 J	6.1	< 0.11 U
ITMW-4	ITMW-4-201403	3/6/2014	1.4 J	2.0 J	0.19 J
ITMW-4	ITMW-4-201405	5/13/2014	2.0 J	2.1 J	0.18 J
ITMW-4	ITMW-4-201407	7/30/2014	2.8 J	4.6 J	< 0.50 U
ITMW-4	ITMW-4-201410	10/16/2014	3.4 J	4.9 J	< 0.50 U
ITMW-4	ITMW-4-201501	1/13/2015	1.7	2.3	< 0.50 U
ITMW-4	ITMW-4-201504	4/14/2015	1.6	2.6	0.84 J
ITMW-4	ITMW-4-201507	7/22/2015	2.0	2.6	0.17 J
ITMW-4	ITMW-4-201510	10/7/2015	2.3	2.8	0.23 J
ITMW-4	ITMW-4-201601	1/12/2016	1.5	2.5	< 0.13 U
ITMW-5	ITMW-5-19891001	10/1/1989	ND	NT	ND
ITMW-5	ITMW-5-19900101	1/1/1990	ND	NT	ND
ITMW-5	ITMW-5-19961201	12/1/1996	21	NT	ND
ITMW-5	ITMW-5-19990201	2/1/1999	86	39	ND
ITMW-5	ITMW-5-20000301	3/1/2000	73	59	ND
ITMW-5	ITMW-5-20000920	9/20/2000	85	64.4	< 10 U
ITMW-5	ITMW-5-20010328	3/28/2001	100	46	< 10 U
ITMW-5	ITMW-5-20010913	9/13/2001	72	64	< 10 U
ITMW-5	ITMW-5-20020910	9/10/2002	108	72	< 10 U
ITMW-5	ITMW-5-20030228	2/28/2003	90.4	68.7	< 10 U
ITMW-5	ITMW-5-20030924	9/24/2003	97.3	73.7	< 10 U
ITMW-5	ITMW-5-20040414	4/14/2004	83.9	55.4	< 10 U
ITMW-5	ITMW-5-20040922	9/22/2004	105	75.8	< 10 U
ITMW-5	ITMW-5-20050406	4/6/2005	93.2	72.6	< 10 U
ITMW-5	ITMW-5-20050406-FD	4/6/2005	87	71	< 10 U
ITMW-5	ITMW-5-20050928	9/28/2005	79	53.5	< 10 U
ITMW-5	ITMW-5-20050928-FD	9/28/2005	82.1	54.4	< 10 U
ITMW-5	ITMW-5-20060314	3/14/2006	92	66.1	< 10 U
ITMW-5	ITMW-5-20060314-FD	3/14/2006	98.4	66.1	< 10 U
ITMW-5	ITMW-5-20061010	10/10/2006	110	51	4 J
ITMW-5	ITMW-5-20070418	4/18/2007	115	39.3	< 10 U
ITMW-5	ITMW-5-20070920	9/20/2007	120	49	4 J
ITMW-5	ITMW-5-20080429	4/29/2008	120	43	< 10 U
ITMW-5	ITMW-5-20081209	12/9/2008	200 E	42	< 5 U

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Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
ITMW-5	ITMW-5-20090427	4/27/2009	160	34	< 5 U
ITMW-5	ITMW-5-20100511	5/11/2010	190 EF	40	< 5 U
ITMW-5	ITMW-5-20101106	11/6/2010	350	50	< 5 U
ITMW-5	ITMW-5-20110322	3/22/2011	370	39	< 5 U
ITMW-5	ITMW-5-20111025	10/25/2011	150	35	< 5 U
ITMW-5	ITMW-5-20120417	4/17/2012	290	26	< 5 U
ITMW-5	ITMW-5-20121018	10/18/2012	260	33	0.64 J
ITMW-5	ITMW-5-20130425	4/25/2013	220	20	0.50 J
ITMW-5	ITMW-5-101613	10/16/2013	260	27	0.55 J
ITMW-6	ITMW-6-19891001	10/1/1989	ND	NT	ND
ITMW-6	ITMW-6-19900101	1/1/1990	ND	NT	ND
ITMW-6	ITMW-6-19961201	12/1/1996	6.8	NT	ND
ITMW-6	ITMW-6-19970501	5/1/1997	7	ND	ND
ITMW-6	ITMW-6-19990201	2/1/1999	25	ND	ND
ITMW-6	ITMW-6-19990201-FD	2/1/1999	6	ND	ND
ITMW-6	ITMW-6-20000301	3/1/2000	ND	ND	ND
ITMW-6	ITMW-6-20000920	9/20/2000	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20010328	3/28/2001	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20010913	9/13/2001	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20020910	9/10/2002	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20020910-FD	9/10/2002	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20030227	2/27/2003	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20030924	9/24/2003	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20040414	4/14/2004	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20040922	9/22/2004	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20050928	9/28/2005	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20061011	10/11/2006	< 5 U	4 J	< 10 U
ITMW-6	ITMW-6-20070920	9/20/2007	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
ITMW-6	ITMW-6-20091028	10/28/2009	< 5 U	2.1 J	< 5 U
ITMW-6	ITMW-6-20100510	5/10/2010	< 5 U	1.9 J	< 5 U
ITMW-6	ITMW-6-20111025-FD	10/25/2011	< 5 U	2.7 J	< 5 U
ITMW-6	ITMW-6-20111025	10/25/2011	< 5 U	2.4 J	< 5 U
ITMW-6	ITMW-6-20120417	4/17/2012	< 5 U	2.9 J	< 5 U
ITMW-6	ITMW-6-20121017	10/17/2012	< 1.6 U	3.1 J	< 0.11 U
ITMW-6	ITMW-6-20130422	4/22/2013	< 1.6 U	2.1 J	0.33 J
ITMW-6	ITMW-6-101413	10/14/2013	3.4 J	5.5	0.18 J
ITMW-6	ITMW-6-201403	3/6/2014	2.7 J	4.9 J	0.18 J
ITMW-6	ITMW-6-201405	5/13/2014	3.6 J	5.3	0.17 J
ITMW-6	ITMW-6-201407	7/30/2014	4.4 J	6.7	< 0.50 U
ITMW-6	ITMW-6-201410	10/15/2014	3.1 J	5.2	< 0.50 U
ITMW-6	ITMW-6-201501	1/13/2015	3.7	5.7	< 0.50 U
ITMW-6	ITMW-6-201504	4/14/2015	3.7	5.3 J	< 0.50 U
ITMW-6	ITMW-6-201507	7/22/2015	4.7	6.3	0.31 J
ITMW-6	ITMW-6-201510	10/7/2015	3.1	5.5	0.21 J
ITMW-6	ITMW-6-201601	1/12/2016	4.2	6.2	0.32 J
ITMW-7	ITMW-7-19891101	11/1/1989	ND	NT	ND
ITMW-7	ITMW-7-19900101	1/1/1990	ND	NT	ND
ITMW-7	ITMW-7-19961201	12/1/1996	290	NT	3
ITMW-7	ITMW-7-19970501	5/1/1997	380	180	ND
ITMW-7	ITMW-7-19990201	2/1/1999	ND	ND	ND
ITMW-7	ITMW-7-19990601	6/1/1999	320	144	ND
ITMW-7	ITMW-7-19990601-FD	6/1/1999	300	140	ND
ITMW-7	ITMW-7-20000301	3/1/2000	262	100	ND
ITMW-7	ITMW-7-20000301-FD	3/1/2000	207	92	ND
ITMW-7	ITMW-7-20000919	9/19/2000	207	100	< 10 U
ITMW-7	ITMW-7-20000921-FD	9/21/2000	109	< 5 U	< 10 U
ITMW-7	ITMW-7-20010328	3/28/2001	161	66	< 10 U
ITMW-7	ITMW-7-20010913	9/13/2001	139	68	< 10 U
ITMW-7	ITMW-7-20020910	9/10/2002	137	56	< 10 U
ITMW-7	ITMW-7-20020910-FD	9/10/2002	128	54	< 10 U
ITMW-7	ITMW-7-20030227	2/27/2003	172	92.5	< 10 U
ITMW-7	ITMW-7-20030924	9/24/2003	125	57.3	< 10 U
ITMW-7	ITMW-7-20040414	4/14/2004	201	80.7	< 10 U
ITMW-7	ITMW-7-20040922	9/22/2004	132	48.4	< 10 U
ITMW-7	ITMW-7-20050407	4/7/2005	122	39	< 10 U
ITMW-7	ITMW-7-20050928	9/28/2005	100	30.5	< 10 U
ITMW-7	ITMW-7-20060314	3/14/2006	153	59.5	< 10 U
ITMW-7	ITMW-7-20061010	10/10/2006	140	44	1 J
ITMW-7	ITMW-7-20070417	4/17/2007	83	29.4	< 10 U
ITMW-7	ITMW-7-20070921	9/21/2007	72	22	< 10 U
ITMW-7	ITMW-7-20080430	4/30/2008	70	18	< 10 U
ITMW-7	ITMW-7-20081211	12/11/2008	66	19	< 5 U
ITMW-7	ITMW-7-20090427	4/27/2009	87	26	< 5 U
ITMW-7	ITMW-7-20091028	10/28/2009	60	20	< 5 U
ITMW-7	ITMW-7-20100510	5/10/2010	73	18	< 5 U

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Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)	
ITMW-7	ITMW-7-20110323	3/23/2011	225 EF	93.2	56.5	
ITMW-7	ITMW-7-20111025	10/25/2011	99	26	< 5	U
ITMW-7	ITMW-7-20120418	4/18/2012	100	20	< 5	U
ITMW-7	ITMW-7-20121018	10/18/2012	63	17	< 0.11	U
ITMW-7	ITMW-7-20130425	4/25/2013	69	16	0.27	J
ITMW-7	ITMW-7-101713	10/17/2013	47	12	< 0.11	U
ITMW-7	ITMW-7-201403	3/8/2014	37.4	10	0.24	J
ITMW-7	ITMW-7-201405	5/14/2014	37.0	11.1	0.22	J
ITMW-7	ITMW-7-201407	7/30/2014	36.7	11.2	< 0.50	U
ITMW-7	ITMW-7-201410	10/15/2014	33.7	10.3	< 0.50	U
ITMW-7	ITMW-7-201501	1/14/2015	34.7	10.5	< 0.50	U
ITMW-7	ITMW-7-201504	4/14/2015	29.3	9.2	< 0.50	U
ITMW-7	ITMW-7-201507	7/22/2015	26.4	8.3	0.19	J
ITMW-7	ITMW-7-201510	10/8/2015	27.6	8.8	0.19	J
ITMW-7	ITMW-7-201601	1/13/2016	44.2	13.0	0.23	J
ITMW-9	ITMW-9-19900101	1/1/1990	ND	NT	ND	
ITMW-9	ITMW-9-19961201	12/1/1996	230	NT	ND	
ITMW-9	ITMW-9-19970501	5/1/1997	7	ND	ND	
ITMW-9	ITMW-9-19990201	2/1/1999	40	24	ND	
ITMW-9	ITMW-9-20000301	3/1/2000	69	45	ND	
ITMW-9	ITMW-9-20000920	9/20/2000	57.3	14.3	< 10	U
ITMW-9	ITMW-9-20000920-FD	9/20/2000	54.8	14	< 10	U
ITMW-9	ITMW-9-20010328	3/28/2001	40	12	< 10	U
ITMW-9	ITMW-9-20010913	9/13/2001	40	12	< 10	U
ITMW-9	ITMW-9-20020910	9/10/2002	61	21	< 10	U
ITMW-9	ITMW-9-20030228	2/28/2003	54.2	37.2	< 10	U
ITMW-9	ITMW-9-20030923	9/23/2003	91	49.5	< 10	U
ITMW-9	ITMW-9-20030923-FD	9/23/2003	97.6	53.9	< 10	U
ITMW-9	ITMW-9-20040414	4/14/2004	71.8	38.8	< 10	U
ITMW-9	ITMW-9-20040922	9/22/2004	80.7	21.1	< 10	U
ITMW-9	ITMW-9-20050406	4/6/2005	79	30.4	< 10	U
ITMW-9	ITMW-9-20050927	9/27/2005	98.8	54.6	< 10	U
ITMW-9	ITMW-9-20060314	3/14/2006	101	78.7	< 10	U
ITMW-9	ITMW-9-20061011	10/11/2006	110	77	6	J
ITMW-9	ITMW-9-20070417	4/17/2007	79	39.6	< 10	U
ITMW-9	ITMW-9-20070920	9/20/2007	76	26	< 10	U
ITMW-9	ITMW-9-20080428	4/28/2008	82	37	< 10	U
ITMW-9	ITMW-9-20081209	12/9/2008	90	62	< 5	U
ITMW-9	ITMW-9-20090427	4/27/2009	110	51	< 5	U
ITMW-9	ITMW-9-20091027	10/27/2009	120	67	5.7	
ITMW-9	ITMW-9-20091027-FD	10/27/2009	120	71	6.1	
ITMW-9	ITMW-9-20100511	5/11/2010	130	38	< 5	U
ITMW-9	ITMW-9-20110322	3/22/2011	120	48	2.4	J
ITMW-9	ITMW-9-20111025	10/25/2011	90	57	< 5	U
ITMW-9	ITMW-9-20120417	4/17/2012	150	50	2.5	J
ITMW-9	ITMW-9-20121018	10/18/2012	120	53	5.2	
ITMW-9	ITMW-9-20130424	4/24/2013	140	44	1.6	J
ITMW-9	ITMW-9-101713	10/17/2013	83	42	16	
ITMW-9	ITMW-9-201403	3/8/2014	112	40.4	0.41	J
ITMW-9	ITMW-9-201405	5/14/2014	113	42.2	0.64	J
ITMW-9	DUP-6-201407	7/30/2014	143	43.9	0.54	J
ITMW-9	ITMW-9-201407	7/30/2014	141	44.4	0.53	J
ITMW-9	DUP-02-201410	10/15/2014	75.3	38.8	1.7	J
ITMW-9	ITMW-9-201410	10/15/2014	76.9	39.1	1.8	J
ITMW-9	DUP-02-201501	1/13/2015	89.4	39.1	1.4	
ITMW-9	ITMW-9-201501	1/13/2015	89.6	39.1	1.4	
ITMW-9	ITMW-9-201504	4/15/2015	100	35.4	< 0.50	U
ITMW-9	ITMW-9-201507	7/21/2015	142	35.5	0.40	J
ITMW-9	DUP-09-201510	10/7/2015	55.2	26.8	1.1	
ITMW-9	ITMW-9-201510	10/7/2015	55.6	26.6	1.0	
ITMW-9	DUP-04-201601	1/13/2016	91.3	34.1	1.1	
ITMW-9	ITMW-9-201601	1/13/2016	92.4	35.3	1.1	
ITMW-10	ITMW-10-19900101	1/1/1990	ND	NT	ND	
ITMW-10	ITMW-10-19961201	12/1/1996	4	NT	ND	
ITMW-10	ITMW-10-19990201	2/1/1999	25	13	ND	
ITMW-10	ITMW-10-20000301	3/1/2000	23	17	ND	
ITMW-10	ITMW-10-20000920	9/20/2000	18.1	15.9	< 10	U
ITMW-10	ITMW-10-20010328	3/28/2001	40	21	< 10	U
ITMW-10	ITMW-10-20010913	9/13/2001	29	28	< 10	U
ITMW-10	ITMW-10-20010913-FD	9/13/2001	30	27	< 10	U
ITMW-10	ITMW-10-20020910	9/10/2002	55	38	< 10	U
ITMW-10	ITMW-10-20030228	2/28/2003	57.6	50.9	< 10	U
ITMW-10	ITMW-10-20030716	7/16/2003	55.3	49.2	< 10	U
ITMW-10	ITMW-10-20030923	9/23/2003	65.9	56.5	< 10	U
ITMW-10	ITMW-10-20040414	4/14/2004	80	57.4	< 10	U
ITMW-10	ITMW-10-20040922	9/22/2004	59.6	50	< 10	U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)	
ITMW-10	ITMW-10-20050406	4/6/2005	72.1	57.7	< 10	U
ITMW-10	ITMW-10-20050928	9/28/2005	57.6	41.6	< 10	U
ITMW-10	ITMW-10-20060314	3/14/2006	82	67.2	< 10	U
ITMW-10	ITMW-10-20061010	10/10/2006	88	54	5	J
ITMW-10	ITMW-10-20070417	4/17/2007	76	52.4	< 10	U
ITMW-10	ITMW-10-20070920	9/20/2007	67	48	5	J
ITMW-10	ITMW-10-20080428	4/28/2008	61	46	< 10	U
ITMW-10	ITMW-10-20081209	12/9/2008	78	50	< 5	U
ITMW-10	ITMW-10-20090427	4/27/2009	87	52	4.4	J
ITMW-10	ITMW-10-20091027	10/27/2009	110	50	4.2	J
ITMW-10	ITMW-10-20100511	5/11/2010	85	46	2.4	J
ITMW-10	ITMW-10-20110322	3/22/2011	92	42	2.7	J
ITMW-10	ITMW-10-20111025	10/25/2011	94	39	2.5	J
ITMW-10	ITMW-10-20121018	10/18/2012	100	37	2.5	
ITMW-10	ITMW-10-101513	10/15/2013	100	32	3.1	
ITMW-10	ITMW-10-201403	3/6/2014	166	32.3	1.2	J
ITMW-10	ITMW-10-201405	5/14/2014	184	32.4	1.4	J
ITMW-10	ITMW-10-201407	7/30/2014	273	38.3	1.8	J
ITMW-10	ITMW-10-201410	10/15/2014	243	32.3	1.7	J
ITMW-10	ITMW-10-201501	1/14/2015	403	38.9	1.4	
ITMW-10	ITMW-10-201504	4/15/2015	258	34.8	0.98	J
ITMW-10	DUP-08-201504	4/16/2015	303	36.1	1.2	
ITMW-10	DUP-01-201507	7/22/2015	501	36.7	1.5	
ITMW-10	ITMW-10-201507	7/22/2015	504	36.2	1.3	
ITMW-10	DUP-04-201510	10/7/2015	445	37.9	1.6	
ITMW-10	ITMW-10-201510	10/7/2015	437	37.5	1.5	
ITMW-10	DUP-01-201601	1/13/2016	735	45.5	1.7	
ITMW-10	ITMW-10-201601	1/13/2016	761	44.4	1.6	
ITMW-11	ITMW-11-19900101	1/1/1990	19000	NT	180	
ITMW-11	ITMW-11-19901101	11/1/1990	4700	NT	93	
ITMW-11	ITMW-11-19910201	2/1/1991	3400	NT	ND	
ITMW-11	ITMW-11-19931101	11/1/1993	2300	NT	43	
ITMW-11	ITMW-11-19961201	12/1/1996	510	NT	ND	
ITMW-11	ITMW-11-19990201	2/1/1999	650	10	ND	
ITMW-11	ITMW-11-20000301	3/1/2000	3370	206	ND	
ITMW-11	ITMW-11-20000919	9/19/2000	8030	327	11.7	
ITMW-11	ITMW-11-20010327	3/27/2001	7000	200	< 10	U
ITMW-11	ITMW-11-20010913	9/13/2001	6000	183	< 10	U
ITMW-11	ITMW-11-20011120	11/20/2001	< 5 U	< 5 U	< 10	U
ITMW-11	ITMW-11L-20020909	9/9/2002	7100	206	10	
ITMW-11	ITMW-11T-20020909	9/9/2002	800	72	< 10	U
ITMW-11	ITMW-11-20030226	2/26/2003	4110	346	58.8	
ITMW-11	ITMW-11-20030226-FD	2/26/2003	3630	306	60.7	
ITMW-11	ITMW-11-20030924	9/24/2003	3990	269	11.8	
ITMW-11	ITMW-11-20040413	4/13/2004	3160	240	37.8	
ITMW-11	ITMW-11-20040921	9/21/2004	3450	204	< 10	U
ITMW-11	ITMW-11-20050407	4/7/2005	4210	282	66.7	
ITMW-11	ITMW-11-20050929	9/29/2005	3910	199	18	
ITMW-11	ITMW-11-20060316	3/16/2006	14600	1290	482	
ITMW-11	ITMW-11-20060316-FD	3/16/2006	12800	1210	381	
ITMW-11	ITMW-11-20061013	10/13/2006	8000	340	47	
ITMW-11	ITMW-11-20070419	4/19/2007	3970	199	< 200	U
ITMW-11	ITMW-11-20070921	9/21/2007	7600	180	21	
ITMW-11	ITMW-11-20080430	4/30/2008	4500	210	58	
ITMW-11	ITMW-11-20081210	12/10/2008	5800	190	27	
ITMW-11	ITMW-11-20090427	4/27/2009	2500	200	24	
ITMW-11	ITMW-11-20100511-FD	5/11/2010	6200	290	28	
ITMW-11	ITMW-11-20100511	5/11/2010	6200	290	45	
ITMW-11	ITMW-11-20110323	3/23/2011	9700	520	130	
ITMW-11	ITMW-11-20111026	10/26/2011	8800	310	16	
ITMW-11	ITMW-11-20121019	10/19/2012	1400	34	2.4	
ITMW-11	ITMW-11-101713	10/17/2013	180	8.7	2.9	
ITMW-11	ITMW-11-201403	3/8/2014	2980	187 M1	22.5	
ITMW-11	DUP-4-201405	5/15/2014	1470	107	4.9	
ITMW-11	ITMW-11-201405	5/15/2014	1590	99.5	5.5	
ITMW-11	ITMW-11-201407	7/31/2014	7380	156	6.9	
ITMW-11	ITMW-11-201410	10/15/2014	2050	70.4	3.5	
ITMW-11	ITMW-11-20141204	12/4/2014	1530	55.0	6.4	
ITMW-11	ITMW-11-201501	1/15/2015	68.3	9.8	1.9	
ITMW-11	ITMW-11-201504	4/15/2015	< 0.50 U	< 0.50 U	< 0.50	U
ITMW-11	ITMW-11-201507	7/22/2015	33.2	5.9	< 0.13	U
ITMW-11	ITMW-11-201510	10/7/2015	721	57.9	0.96	J
ITMW-11	DUP-03-201601	1/13/2016	2100	199	65.3	
ITMW-11	ITMW-11-201601	1/13/2016	605	100	13.1	
ITMW-12	ITMW-12-19901101	11/1/1990	2400	NT	140	
ITMW-12	ITMW-12-19910201	2/1/1991	2100	NT	ND	

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)	
ITMW-12	ITMW-12-19931101	11/1/1993	2500	NT	35	
ITMW-12	ITMW-12-19961201	12/1/1996	1200	NT	ND	
ITMW-12	ITMW-12-19990201	2/1/1999	3100	480	34	
ITMW-12	ITMW-12-20000301	3/1/2000	3110	320	19	
ITMW-12	ITMW-12-20000919	9/19/2000	3350	180	12	
ITMW-12	ITMW-12-20010327	3/27/2001	3900	200	20	
ITMW-12	ITMW-12-20010913	9/13/2001	3100	159	< 10	U
ITMW-12	ITMW-12-20011120	11/20/2001	2400	300	20	
ITMW-12	ITMW-12-20020911	9/11/2002	4200	300	< 10	U
ITMW-12	ITMW-12-20030226	2/26/2003	3460	287	< 10	U
ITMW-12	ITMW-12-20030226-FD	2/26/2003	3940	308	< 10	U
ITMW-12	ITMW-12-20030924	9/24/2003	2920	242	< 10	U
ITMW-12	ITMW-12-20040413	4/13/2004	2410	245	< 10	U
ITMW-12	ITMW-12-20040921	9/21/2004	1780	238	< 10	U
ITMW-12	ITMW-12-20050929	9/29/2005	2120	273	< 10	U
ITMW-12	ITMW-12-20061013	10/13/2006	3500	310	9	J
ITMW-12	ITMW-12-20070921	9/21/2007	2100	220	< 10	U
ITMW-12	ITMW-12-20081209	12/9/2008	1500	180	< 5	U
ITMW-12	ITMW-12-20111026	10/26/2011	1600	230	1.8	J
ITMW-12	ITMW-12-20121019	10/19/2012	2500	200	3.6	
ITMW-12	ITMW-12-101713	10/17/2013	2300	190	3.2	
ITMW-12	ITMW-12-20131017-FD	10/17/2013	2300	160	4.1	
ITMW-12	ITMW-12-201403	3/8/2014	1910	148	3.4	
ITMW-12	ITMW-12-201403-FD	3/8/2014	2400	207	3.4	
ITMW-12	ITMW-12-201405	5/14/2014	2740	164	14.0	
ITMW-12	ITMW-12-201407	7/31/2014	2710	173	13.6	
ITMW-12	DUP-04-201410	10/15/2014	2950	192	3.7	
ITMW-12	ITMW-12-201410	10/15/2014	2570	188	3.5	
ITMW-12	ITMW-12-20141204	12/4/2014	468	51.1	0.88	J
ITMW-12	DUP-04-201501	1/15/2015	59.3	4.8	< 0.50	U
ITMW-12	ITMW-12-201501	1/15/2015	57.1	4.2	< 0.50	U
ITMW-12	ITMW-12-201504	4/15/2015	2260	149	< 0.13	U
ITMW-12	ITMW-12-201507	7/23/2015	652	46.2	0.58	J
ITMW-12	ITMW-12-201510	10/7/2015	314	34.6	0.42	J
ITMW-12	ITMW-12-201601	1/13/2016	465	70.5	< 0.13	U
ITMW-13	ITMW-13-19901101	11/1/1990	34	NT	18	
ITMW-13	ITMW-13-19910201	2/1/1991	32	NT	35	
ITMW-13	ITMW-13-19931101	11/1/1993	NT	NT	29	
ITMW-13	ITMW-13-19961201	12/1/1996	36	NT	36	
ITMW-13	ITMW-13-19990201	2/1/1999	36	140	48	
ITMW-13	ITMW-13-20000301	3/1/2000	37	121	53	
ITMW-13	ITMW-13-20000919	9/19/2000	22.4	112	50.5	
ITMW-13	ITMW-13-20010328	3/28/2001	44	92	40	
ITMW-13	ITMW-13-20010913	9/13/2001	35	111	80	
ITMW-13	ITMW-13L-20020909	9/9/2002	99	110	10	
ITMW-13	ITMW-13T-20020909	9/9/2002	81	86	20	
ITMW-13	ITMW-13-20030226	2/26/2003	70.2	85.5	< 10	U
ITMW-13	ITMW-13-20030924	9/24/2003	159	130	< 10	U
ITMW-13	ITMW-13-20040413	4/13/2004	48.4	87.2	< 10	U
ITMW-13	ITMW-13-20040921	9/21/2004	25.5	71.6	< 10	U
ITMW-13	ITMW-13-20050407	4/7/2005	71.8	103	< 10	U
ITMW-13	ITMW-13-20050930	9/30/2005	72.7	114	17.9	
ITMW-13	ITMW-13-20060316	3/16/2006	141	187	< 10	U
ITMW-13	ITMW-13-20061014	10/14/2006	100	150	17	
ITMW-13	ITMW-13-20070418	4/18/2007	83.1	78	4.3	J
ITMW-13	ITMW-13-20070920	9/20/2007	28	40	< 10	U
ITMW-13	ITMW-13-20080429	4/29/2008	69	72	< 10	U
ITMW-13	ITMW-13-20081210	12/10/2008	26	23	< 5	U
ITMW-13	ITMW-13-20090427	4/27/2009	79	78	< 5	U
ITMW-13	ITMW-13-20091027	10/27/2009	18	22	< 5	U
ITMW-13	ITMW-13-20100512	5/12/2010	97	72	< 5	U
ITMW-13	ITMW-13-20110323	3/23/2011	130	83	< 5	U
ITMW-13	ITMW-13-20111027-FD	10/27/2011	64	40	< 5	U
ITMW-13	ITMW-13-20111027	10/27/2011	65	41	< 5	U
ITMW-13	ITMW-13-20120419	4/19/2012	97	63	< 5	U
ITMW-13	ITMW-13-20121018	10/18/2012	400	260	1.0	J
ITMW-13	ITMW-13-20130425	4/25/2013	86	52	0.14	J
ITMW-13	ITMW-13-101613	10/16/2013	150	74	< 0.11	U
ITMW-13	ITMW-13-201403	3/8/2014	69.3	45.3	< 0.13	U
ITMW-13	ITMW-13-201405	5/14/2014	54.0	34.7	0.17	J
ITMW-13	ITMW-13-201407	7/30/2014	36.5	27.5	< 0.50	U
ITMW-13	ITMW-13-201410	10/15/2014	40.8	25.9	< 0.50	U
ITMW-13	ITMW-13-201501	1/14/2015	45.8	28.5	< 0.50	U
ITMW-13	ITMW-13-201504	4/15/2015	43.1	26.5	< 0.50	U
ITMW-13	DUP-03-201504	4/15/2015	47.7	26.7	< 0.50	U
ITMW-13	DUP-02-201507	7/22/2015	36.1	20.8	0.17	J

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Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)	
ITMW-13	ITMW-13-201507	7/22/2015	37.3	20.1	0.18	J
ITMW-13	DUP-01-201510	10/7/2015	25.5	17.6	0.18	J
ITMW-13	ITMW-13-201510	10/7/2015	29.9	17.8	0.20	J
ITMW-13	ITMW-13-201601	1/13/2016	47.6	26.7	0.17	J
ITMW-13	DUP-02-201601	1/13/2016	51.6	26.1	< 0.13	U
ITMW-14	ITMW-14-19901101	11/1/1990	ND	NT	13	
ITMW-14	ITMW-14-19910201	2/1/1991	ND	NT	ND	
ITMW-14	ITMW-14-19931101	11/1/1993	6	NT	ND	
ITMW-14	ITMW-14-19961201	12/1/1996	ND	NT	ND	
ITMW-14	ITMW-14-19990201	2/1/1999	ND	29	20	
ITMW-14	ITMW-14-20000301	3/1/2000	ND	24	12	
ITMW-14	ITMW-14-20000919	9/19/2000	< 5 U	13.6	< 10	U
ITMW-14	ITMW-14-20010327	3/27/2001	< 5 U	24	10	
ITMW-14	ITMW-14-20010913	9/13/2001	< 5 U	5	< 10	U
ITMW-14	ITMW-14-20020911	9/11/2002	41	6	< 10	U
ITMW-14	ITMW-14-20030226	2/26/2003	< 5 U	< 5 U	< 10	U
ITMW-14	ITMW-14-20030924	9/24/2003	< 5 U	< 5 U	< 10	U
ITMW-14	ITMW-14-20040413	4/13/2004	< 5 U	< 5 U	< 10	U
ITMW-14	ITMW-14-20040921	9/21/2004	< 5 U	< 5 U	< 10	U
ITMW-14	ITMW-14-20050930	9/30/2005	< 5 U	< 5 U	< 10	U
ITMW-14	ITMW-14-20061014	10/14/2006	4 J	8	< 10	UJ
ITMW-14	ITMW-14-20070921	9/21/2007	5 J	9	< 10	U
ITMW-14	ITMW-14-20081210	12/10/2008	5.7	9.3	< 5	U
ITMW-14	ITMW-14-20101104	11/4/2010	110	14	< 5	U
ITMW-14	ITMW-14-20111027	10/27/2011	6.3	11	< 5	U
ITMW-14	ITMW-14-20120419	4/19/2012	7.6	16	< 5	U
ITMW-14	ITMW-14-20121019	10/19/2012	5.4	11	< 0.11	U
ITMW-14	ITMW-14-20130425	4/25/2013	6.8	14	< 0.11	U
ITMW-14	ITMW-14-101613	10/16/2013	2.9 J	4.9 J	< 0.11	U
ITMW-14	ITMW-14-201403	3/8/2014	6.1	11.9	< 0.13	U
ITMW-14	ITMW-14-201405	5/14/2014	5.3	11.3	< 0.13	U
ITMW-14	ITMW-14-201407	7/30/2014	4.0 J	9.2	< 0.50	U
ITMW-14	ITMW-14-201410	10/15/2014	4.1 J	9.4	< 0.50	U
ITMW-14	ITMW-14-201501	1/14/2015	4.9	11.5	< 0.50	U
ITMW-14	ITMW-14-201504	4/15/2015	5.0	10.7	< 0.50	U
ITMW-14	ITMW-14-201507	7/22/2015	4.3	9.6	< 0.13	U
ITMW-14	ITMW-14-201510	10/7/2015	4.6	9.8	< 0.13	U
ITMW-14	ITMW-14-201601	1/12/2016	4.3	10	< 0.13	U
ITMW-15	ITMW-15-19901101	11/1/1990	2500	NT	55	
ITMW-15	ITMW-15-19910201	2/1/1991	1700	NT	ND	
ITMW-15	ITMW-15-19910415	4/15/1991	2000	NT	ND	
ITMW-15	ITMW-15-19910419	4/19/1991	2100	NT	ND	
ITMW-15	ITMW-15-19910420	4/20/1991	2400	NT	ND	
ITMW-15	ITMW-15-19931101	11/1/1993	4300	NT	10	
ITMW-15	ITMW-15-19961201	12/1/1996	240	NT	ND	
ITMW-15	ITMW-15-19990201	2/1/1999	400	120	ND	
ITMW-15	ITMW-15-20000301	3/1/2000	339	97	ND	
ITMW-15	ITMW-15-20000919	9/19/2000	362	92.7	< 10	U
ITMW-15	ITMW-15-20000919-FD	9/19/2000	376	91	< 10	U
ITMW-15	ITMW-15-20010328	3/28/2001	290	57	< 10	U
ITMW-15	ITMW-15-20010913	9/13/2001	380	87	< 10	U
ITMW-15	ITMW-15-20010913-FD	9/13/2001	370	80	< 10	U
ITMW-15	ITMW-15-20011120	11/20/2001	157	30	< 10	U
ITMW-15	ITMW-15-20020911	9/11/2002	320	75	< 10	U
ITMW-15	ITMW-15-20030226	2/26/2003	301	98.7	< 10	U
ITMW-15	ITMW-15-20030925	9/25/2003	490	91.9	< 10	U
ITMW-15	ITMW-15-20040414	4/14/2004	334	126	< 10	U
ITMW-15	ITMW-15-20040921	9/21/2004	774	118	< 10	U
ITMW-15	ITMW-15-20050407	4/7/2005	685	133	< 10	U
ITMW-15	ITMW-15-20050929	9/29/2005	862	189	< 10	U
ITMW-15	ITMW-15-20060316	3/16/2006	908	183	12	
ITMW-15	ITMW-15-20061013	10/13/2006	680	140	7	J
ITMW-15	ITMW-15-20070419	4/19/2007	591	110	8.5	J
ITMW-15	ITMW-15-20070921	9/21/2007	1000	190	27	
ITMW-15	ITMW-15-20080429	4/29/2008	100	18	< 10	U
ITMW-15	ITMW-15-20081210	12/10/2008	1100	150	< 5	U
ITMW-15	ITMW-15-20090427	4/27/2009	2800	130	17	
ITMW-15	ITMW-15-20100511	5/11/2010	2800	160	11	
ITMW-15	ITMW-15-20111026	10/26/2011	1100	74	< 5	U
ITMW-15	ITMW-15-20121019	10/19/2012	240	14	1.1	J
ITMW-15	ITMW-15-101613	10/16/2013	2800	170	14	
ITMW-15	ITMW-15-201403	3/8/2014	1630	152	11.6	
ITMW-15	DUP2-201405	5/14/2014	899	61.7	4.4	
ITMW-15	ITMW-15-201405	5/14/2014	729	60.7	4.1	
ITMW-15	DUP-4-201407	7/30/2014	1850	82.8	3.0	
ITMW-15	ITMW-15-201407	7/30/2014	1820	82.5	3.1	

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
ITMW-15	DUP-05-201410	10/16/2014	1660	66.4	1.8 J
ITMW-15	ITMW-15-201410	10/16/2014	1490	63.0	2.0
ITMW-15	ITMW-15-20141205	12/5/2014	63.0	< 0.50 U	< 0.50 U
ITMW-15	DUP-05-201501	1/15/2015	61.7	3.8	< 0.50 U
ITMW-15	ITMW-15-201501	1/15/2015	56.5	2.9	< 0.50 U
ITMW-15	ITMW-15-201504	4/15/2015	101	7.5	< 0.50 U
ITMW-15	ITMW-15-201507	7/22/2015	110	22.4	1.3
ITMW-15	ITMW-15-201510	10/8/2015	38.9	2.4	< 0.13 U
ITMW-15	ITMW-15-201601	1/13/2016	797	67.0	4.9
ITMW-16	ITMW-16-19910201	2/1/1991	31	NT	ND
ITMW-16	ITMW-16-19931101	11/1/1993	41	NT	7
ITMW-16	ITMW-16-19961201	12/1/1996	ND	NT	ND
ITMW-16	ITMW-16-19990201	2/1/1999	ND	ND	ND
ITMW-16	ITMW-16-20000301	3/1/2000	7	ND	ND
ITMW-16	ITMW-16-20000921	9/21/2000	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20010326	3/26/2001	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20010913	9/13/2001	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20020911	9/11/2002	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20030227	2/27/2003	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20030925	9/25/2003	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20040415	4/15/2004	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20040923	9/23/2004	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20050929	9/29/2005	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20050929-FD	9/29/2005	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20061014	10/14/2006	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20070920	9/20/2007	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
ITMW-16	ITMW-16-20101106	11/6/2010	17	< 5 U	< 5 U
ITMW-16	ITMW-16-20111027	10/27/2011	< 5 U	< 5 U	< 5 U
ITMW-16	ITMW-16-20120418	4/18/2012	< 5 U	< 5 U	< 5 U
ITMW-16	ITMW-16-20121018	10/18/2012	< 1.6 U	< 0.56 U	< 0.11 U
ITMW-16	ITMW-16-20130424	4/24/2013	< 1.6 U	< 0.56 U	< 0.11 U
ITMW-16	ITMW-16-101613	10/16/2013	< 1.6 U	< 0.56 U	< 0.11 U
ITMW-16	ITMW-16-201403	3/7/2014	0.30 J	< 0.080 U	< 0.13 U
ITMW-16	ITMW-16-201405	5/13/2014	< 0.17 U	< 0.080 U	< 0.13 U
ITMW-16	ITMW-16-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50 U
ITMW-16	ITMW-16-201410	10/15/2014	< 0.50 U	< 0.50 U	< 0.50 U
ITMW-16	ITMW-16-201501	1/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
ITMW-16	ITMW-16-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
ITMW-16	ITMW-16-201507	7/22/2015	< 0.17 U	< 0.080 U	< 0.13 U
ITMW-16	ITMW-16-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
ITMW-16	ITMW-16-201601	1/13/2016	< 0.17 U	< 0.080 U	< 0.13 U
ITMW-17	ITMW-17-19910201	2/1/1991	21000	NT	ND
ITMW-17	ITMW-17-19910415	4/15/1991	21000	NT	ND
ITMW-17	ITMW-17-19910424	4/24/1991	21000	NT	ND
ITMW-17	ITMW-17-19931101	11/1/1993	18000	NT	15
ITMW-17	ITMW-17-19961201	12/1/1996	9300	NT	ND
ITMW-17	ITMW-17-19990201	2/1/1999	11000	240	ND
ITMW-17	ITMW-17-20000301	3/1/2000	6780	171	ND
ITMW-17	ITMW-17-20000919	9/19/2000	5500	180	< 10 U
ITMW-17	ITMW-17-20010105	1/5/2001	8310	179	< 10 U
ITMW-17	ITMW-17-20010328	3/28/2001	6700	134	< 10 U
ITMW-17	ITMW-17-20010913	9/13/2001	6300	158	< 10 U
ITMW-17	ITMW-17-20020911	9/11/2002	6500	153	< 10 U
ITMW-17	ITMW-17-20030226	2/26/2003	4380	134	< 10 U
ITMW-17	ITMW-17-20030925	9/25/2003	6090	136	< 10 U
ITMW-17	ITMW-17-20040414	4/14/2004	5050	184	< 10 U
ITMW-17	ITMW-17-20040414-FD	4/14/2004	4920	182	< 10 U
ITMW-17	ITMW-17-20040921	9/21/2004	5760	156	< 10 U
ITMW-17	ITMW-17-20050407	4/7/2005	5750	156	< 10 U
ITMW-17	ITMW-17-20050929	9/29/2005	5460	111	< 10 U
ITMW-17	ITMW-17-20060315	3/15/2006	15900	211 E	26.3
ITMW-17	ITMW-17-20061012	10/12/2006	19000	220	21
ITMW-17	ITMW-17-20070418	4/18/2007	13000	298	< 10 U
ITMW-17	ITMW-17-20070921	9/21/2007	11000	210	3 J
ITMW-17	ITMW-17-20080429	4/29/2008	6200	140	< 10 U
ITMW-17	ITMW-17-20081210	12/10/2008	5600	130	< 5 U
ITMW-17	ITMW-17-20090427	4/27/2009	5200	130	< 5 U
ITMW-17	ITMW-17-20100511	5/11/2010	4500	85	< 5 U
ITMW-17	ITMW-17-20101104	11/4/2010	5400	110	< 5 U
ITMW-17	ITMW-17-20110322	3/22/2011	5300	100	< 5 U
ITMW-17	ITMW-17-20111026	10/26/2011	4500	98	< 5 U
ITMW-17	ITMW-17-20120419	4/19/2012	4700	110	< 5 U
ITMW-17	ITMW-17-20121019	10/19/2012	3500	100	0.48 J
ITMW-17	ITMW-17-20130425	4/25/2013	5600	130	0.90 J
ITMW-17	ITMW-17-101713	10/17/2013	4800	79	< 0.11 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)	
ITMW-17	ITMW-17-201403	3/8/2014	3770	86.1	0.57	J
ITMW-17	ITMW-17-201403-FD	3/8/2014	4040	87.3	0.74	J
ITMW-17	DUP-3-201405	5/15/2014	3370	88.5	1.1	J
ITMW-17	ITMW-17-201405	5/15/2014	3630	82.9	1.3	J
ITMW-17	ITMW-17-201407	7/30/2014	2260	64.7	< 0.50	U
ITMW-17	ITMW-17-201410	10/16/2014	3510	70.5	3.2	
ITMW-17	ITMW-17-20141205	12/5/2014	4630	210 J	7.7	
ITMW-17	ITMW-17-201501	1/15/2015	3840	110	1.5	
ITMW-17	ITMW-17-201504	4/15/2015	3920	142	< 0.13	U
ITMW-17	ITMW-17-201507	7/22/2015	5350	116	0.51	J
ITMW-17	ITMW-17-201510	10/8/2015	3970	77.2	2.5	
ITMW-17	ITMW-17-201601	1/13/2016	2600	44.7	2.2	
ITMW-18	ITMW-18-19910201	2/1/1991	3700	NT	ND	
ITMW-18	ITMW-18-19931101	11/1/1993	4500	NT	6	
ITMW-18	ITMW-18-19961201	12/1/1996	1600	NT	ND	
ITMW-18	ITMW-18-19990201	2/1/1999	6300	480	ND	
ITMW-18	ITMW-18-20000301	3/1/2000	3560	401	ND	
ITMW-18	ITMW-18-20000919	9/19/2000	4080	409	< 10	U
ITMW-18	ITMW-18-20010327	3/27/2001	4000	400	< 10	U
ITMW-18	ITMW-18-20010327-FD	3/27/2001	4200	370	< 100	U
ITMW-18	ITMW-18-20010911	9/11/2001	4100	300	< 10	U
ITMW-18	ITMW-18-20020911	9/11/2002	6700	300	< 10	U
ITMW-18	ITMW-18-20030226	2/26/2003	5110	290	< 10	U
ITMW-18	ITMW-18-20030924	9/24/2003	7700	415	< 10	U
ITMW-18	ITMW-18-20040413	4/13/2004	7740	410	< 10	U
ITMW-18	ITMW-18-20040921	9/21/2004	7050	380	< 10	U
ITMW-18	ITMW-18-20050408	4/8/2005	7080	389	< 10	U
ITMW-18	ITMW-18-20050929	9/29/2005	4660	241	< 10	U
ITMW-18	ITMW-18-20060315	3/15/2006	5750	373	< 50	U
ITMW-18	ITMW-18-20061013	10/13/2006	6600	300	< 10	U
ITMW-18	ITMW-18-20070418	4/18/2007	15000	387	< 10	U
ITMW-18	ITMW-18-20070921	9/21/2007	8300	310	< 100	U
ITMW-18	ITMW-18-20080430	4/30/2008	9000	350	< 10	U
ITMW-18	ITMW-18-20081209	12/9/2008	7200	320	< 5	U
ITMW-18	ITMW-18-20090427	4/27/2009	7100	320	< 5	U
ITMW-18	ITMW-18-20091027	10/27/2009	7800	360	< 5	U
ITMW-18	ITMW-18-20100511	5/11/2010	11000	360	< 5	U
ITMW-18	ITMW-18-20111026	10/26/2011	8500	290	< 5	U
ITMW-18	ITMW-18-20120419	4/19/2012	9800	360	2.9	J
ITMW-18	ITMW-18-20121019	10/19/2012	7600	260	1.2	J
ITMW-18	ITMW-18-20130425	4/25/2013	7200	270	0.90	J
ITMW-18	ITMW-18-101713	10/17/2013	7000	280	0.64	J
ITMW-18	ITMW-18-201403	3/8/2014	9380	285	< 6.5	U
ITMW-18	ITMW-18-201403-FD	3/8/2014	8550	242 J	1.7	J
ITMW-18	DUP-5-201405	5/15/2014	2500	108	< 0.13	U
ITMW-18	ITMW-18-201405	5/15/2014	2940	101	< 0.13	U
ITMW-18	ITMW-18-201407	7/31/2014	5360	139	1.6	J
ITMW-18	ITMW-18-201410	10/15/2014	3540	68.5	< 0.50	U
ITMW-18	ITMW-18-20141204	12/4/2014	3690	74.3	< 0.50	U
ITMW-18	ITMW-18-201501	1/15/2015	488	26.5	< 0.50	U
ITMW-18	DUP-04-201504	4/16/2015	42.8	1.7	< 0.50	U
ITMW-18	ITMW-18-201504	4/16/2015	43.5	1.6	< 0.50	U
ITMW-18	DUP-07-201507	7/23/2015	24.7	0.81 J	< 0.13	U
ITMW-18	ITMW-18-201507	7/23/2015	22.9	0.69 J	< 0.13	U
ITMW-18	DUP-06-201510	10/8/2015	12.4	0.41 J	< 0.13	U
ITMW-18	ITMW-18-201510	10/8/2015	12.9	0.40 J	< 0.13	U
ITMW-18	ITMW-18-201601	1/13/2016	48.8	4.6	< 0.13	U
ITMW-19	ITMW-19-19910201	2/1/1991	9900	NT	ND	
ITMW-19	ITMW-19-19931101	11/1/1993	27000	NT	7	
ITMW-19	ITMW-19-19961201	12/1/1996	25000	NT	ND	
ITMW-19	ITMW-19-19990201	2/1/1999	33000	150	ND	
ITMW-19	ITMW-19-20000301	3/1/2000	33100	128	ND	
ITMW-19	ITMW-19-20000919	9/19/2000	35700	197	< 10	U
ITMW-19	ITMW-19-20010105	1/5/2001	34000	166	< 10	U
ITMW-19	ITMW-19-20010328	3/28/2001	38000	119	< 10	U
ITMW-19	ITMW-19-20010913	9/13/2001	19000	132	< 10	U
ITMW-19	ITMW-19-20020911	9/11/2002	27000	167	< 10	U
ITMW-19	ITMW-19-20030226	2/26/2003	16200	126	< 10	U
ITMW-19	ITMW-19-20030924	9/24/2003	27300	186	< 10	U
ITMW-19	ITMW-19-20040413	4/13/2004	19400	186	< 10	U
ITMW-19	ITMW-19-20040921	9/21/2004	20000	148	< 10	U
ITMW-19	ITMW-19-20050407	4/7/2005	18300	146	< 10	U
ITMW-19	ITMW-19-20050407-FD	4/7/2005	16200	145	< 10	U
ITMW-19	ITMW-19-20050929	9/29/2005	25700	144	< 10	U
ITMW-19	ITMW-19-20060315	3/15/2006	21300	177	< 100	U
ITMW-19	ITMW-19-20061012	10/12/2006	16000	150	2	J

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
ITMW-19	ITMW-19-20070418	4/18/2007	20000	131	< 10 U
ITMW-19	ITMW-19-20070921	9/21/2007	19000	110	< 200 U
ITMW-19	ITMW-19-20080429	4/29/2008	17000	98	< 100 U
ITMW-19	ITMW-19-20081210	12/10/2008	11000	93	< 5 U
ITMW-19	ITMW-19-20090427	4/27/2009	13000	100	< 5 U
ITMW-19	ITMW-19-20100511	5/11/2010	19000	130	< 5 U
ITMW-19	ITMW-19-20101104-FD	11/4/2010	19000	150	< 5 U
ITMW-19	ITMW-19-20101104	11/4/2010	18000	140	< 5 U
ITMW-19	ITMW-19-20110322	3/22/2011	16000	110	1 J
ITMW-19	ITMW-19-20111026	10/26/2011	17000	120	< 5 U
ITMW-19	ITMW-19-20120419-FD	4/19/2012	15000	110	< 5 U
ITMW-19	ITMW-19-20120419	4/19/2012	18000	110	< 5 U
ITMW-19	ITMW-19-20121019	10/19/2012	15000	110	0.89 J
ITMW-19	ITMW-19-20130425	4/25/2013	13000	110	0.57 J
ITMW-19	ITMW-19-101813	10/18/2013	16000	91 J	< 0.11 U
ITMW-19	ITMW-19-10182013-FD	10/18/2013	14000	100 J	< 0.11 U
ITMW-19	ITMW-19-201403	3/8/2014	8850	66.7	0.57 J
ITMW-19	ITMW-19-201403-FD	3/8/2014	8270	60.8 J	< 6.5 U
ITMW-19	DUP-6-201405	5/15/2014	15300 J	67.2	0.87 J
ITMW-19	ITMW-19-201405	5/15/2014	9780 J	65.8	0.85 J
ITMW-19	ITMW-19-201407	7/31/2014	13300	85.5	0.96 J
ITMW-19	ITMW-19-201410	10/16/2014	12800	76.7	1.9 J
ITMW-19	ITMW-19-20141205	12/5/2014	33.5	< 0.50 U	< 0.50 U
ITMW-19	ITMW-19-201501	1/15/2015	17.4	< 0.50 U	< 0.50 U
ITMW-19	ITMW-19-201504	4/15/2015	594	2.2	< 0.50 U
ITMW-19	ITMW-19-201507	7/23/2015	15.2	< 0.080 U	< 0.13 U
ITMW-19	ITMW-19-201510	10/8/2015	87.1	0.41 J	< 0.13 U
ITMW-19	ITMW-19-201601	1/13/2016	336	1.2	< 0.13 U
ITMW-20	ITMW-20-19910301	3/1/1991	ND	NT	ND
ITMW-20	ITMW-20-19931101	11/1/1993	ND	NT	ND
ITMW-20	ITMW-20-19961201	12/1/1996	290	NT	ND
ITMW-20	ITMW-20-19970501	5/1/1997	ND	ND	ND
ITMW-20	ITMW-20-19990201	2/1/1999	ND	ND	ND
ITMW-20	ITMW-20-20000301	3/1/2000	ND	ND	ND
ITMW-20	MW-20-20000921-FS	9/21/2000	< 5 U	< 5 U	< 10 U
ITMW-20	MW-20-20010327-FS	3/27/2001	< 5 U	< 5 U	< 10 U
ITMW-20	MW-20-20010911-FS	9/11/2001	21	< 5 U	< 10 U
ITMW-20	ITMW-20-20020910	9/10/2002	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20030227	2/27/2003	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20030924	9/24/2003	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20040414	4/14/2004	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20040922	9/22/2004	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20050929	9/29/2005	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20061012	10/12/2006	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
ITMW-20	ITMW-20-20091029	10/29/2009	< 5 U	< 5 U	< 5 U
ITMW-20	ITMW-20-20100512	5/12/2010	< 5 U	< 5 U	< 5 U
ITMW-20	ITMW-20-20101105	11/5/2010	15	< 5 U	< 5 U
ITMW-20	ITMW-20-20111026-FD	10/26/2011	< 5 U	< 5 U	< 5 U
ITMW-20	ITMW-20-20111026	10/26/2011	< 5 U	< 5 U	< 5 U
ITMW-20	ITMW-20-20120418	4/18/2012	< 5 U	< 5 U	< 5 U
ITMW-20	ITMW-20-20121018	10/18/2012	< 1.6 U	< 0.56 U	< 0.11 U
ITMW-20	ITMW-20-20130423	4/23/2013	< 1.6 U	< 0.56 U	< 0.11 U
ITMW-20	ITMW-20-101413	10/14/2013	< 1.6 U	< 0.56 U	< 0.11 U
ITMW-20	ITMW-20-201403	3/5/2014	< 0.17 U	< 0.080 U	0.15 J
ITMW-20	ITMW-20-201405	5/12/2014	0.21 J	< 0.080 U	< 0.13 U
ITMW-20	ITMW-20-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50 U
ITMW-20	ITMW-20-201410	10/15/2014	< 0.50 U	< 0.50 U	< 0.50 U
ITMW-20	ITMW-20-201501	1/12/2015	< 0.50 U	< 0.50 U	< 0.50
ITMW-20	ITMW-20-201504	4/13/2015	< 0.50 U	< 0.50 U	< 0.50
ITMW-20	ITMW-20-201507	7/22/2015	0.20 J	< 0.080 U	< 0.13 U
ITMW-20	ITMW-20-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
ITMW-20	ITMW-20-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
ITMW-21	ITMW-21-19910301	3/1/1991	21	NT	ND
ITMW-21	ITMW-21-19931101	11/1/1993	37	NT	ND
ITMW-21	ITMW-21-19961201	12/1/1996	150	NT	ND
ITMW-21	ITMW-21-19990201	2/1/1999	190	ND	ND
ITMW-21	ITMW-21-20000301	3/1/2000	196	ND	ND
ITMW-21	ITMW-21-20000919	9/19/2000	192	< 5 U	< 10 U
ITMW-21	ITMW-21-20010328	3/28/2001	123	< 5 U	< 10 U
ITMW-21	ITMW-21-20010913	9/13/2001	116	< 5 U	< 10 U
ITMW-21	ITMW-21-20020910	9/10/2002	13	< 5 U	< 10 U
ITMW-21	ITMW-21-20030226	2/26/2003	39.5	< 5 U	< 10 U
ITMW-21	ITMW-21-20030923	9/23/2003	9.09	< 5 U	< 10 U
ITMW-21	ITMW-21-20040414	4/14/2004	52.9	< 5 U	< 10 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
ITMW-21	ITMW-21-20040922	9/22/2004	7.8	< 5 U	< 10 U
ITMW-21	ITMW-21-20050928	9/28/2005	6.45	< 5 U	< 10 U
ITMW-21	ITMW-21-20061012	10/12/2006	9	< 5 U	< 10 U
ITMW-21	ITMW-21-20070921	9/21/2007	10	< 5 U	< 10 U
ITMW-21	ITMW-21-20081209	12/9/2008	15	< 5 U	< 5 U
ITMW-21	ITMW-21-20091027	10/27/2009	14	< 5 U	< 5 U
ITMW-21	ITMW-21-20101104	11/4/2010	1100	4.4 J	< 5 U
ITMW-21	ITMW-21-20110322	3/22/2011	24	< 5 U	< 5 U
ITMW-21	ITMW-21-20111025	10/25/2011	11	< 5 U	< 5 U
ITMW-21	ITMW-21-20120417	4/17/2012	30	< 5 U	< 5 U
ITMW-21	ITMW-21-20121019	10/19/2012	7.7	< 0.56 U	< 0.11 U
ITMW-21	ITMW-21-20130424	4/24/2013	18	< 0.56 U	< 0.11 U
ITMW-21	ITMW-21-101513	10/15/2013	20	< 0.56 U	< 0.11 U
ITMW-21	ITMW-21-201403	3/6/2014	14.8	< 0.080 U	< 0.13 U
ITMW-21	ITMW-21-201405	5/14/2014	17.6	< 0.080 U	< 0.13 U
ITMW-21	DUP-3-201407	7/30/2014	9.3	< 0.50 U	< 0.50 U
ITMW-21	ITMW-21-201407	7/30/2014	9.4	< 0.50 U	< 0.50 U
ITMW-21	ITMW-21-201410	10/15/2014	6.0	< 0.50 U	< 0.50 U
ITMW-21	ITMW-21-201501	1/14/2015	10.8	< 0.50 U	< 0.50 U
ITMW-21	ITMW-21-201504	4/14/2015	12.7	< 0.50 U	< 0.50 U
ITMW-21	ITMW-21-201507	7/22/2015	7.6	0.20 J	< 0.13 U
ITMW-21	ITMW-21-201510	10/8/2015	7.2	0.29 J	< 0.13 U
ITMW-21	ITMW-21-201601	1/13/2016	9.8	0.27 J	< 0.13 U
IW-72	IW-72-20090116	1/16/2009	27	< 5 U	< 5 U
IW-72	IW-72-20090423	4/23/2009	40	< 5 U	< 5 U
IW-72	IW-72-20090508	5/8/2009	40	< 5 U	< 5 U
IW-72	IW-72-20110303-FS	3/3/2011	3.1 J	< 0.56 U	< 0.85 U
IW-72	IW-72-20110519-FS	5/19/2011	< 1.6 U	< 0.56 U	NT
IW-72	IW-72-20111024	10/24/2011	< 5 U	< 5 U	< 5 U
IW-72	IW-72-20120417	4/17/2012	3.8 J	< 5 U	< 5 U
IW-72	IW-72-20121019	10/19/2012	< 1.6 U	< 0.56 U	< 0.11 U
IW-72	IW-72-20130424	4/24/2013	< 1.6 U	< 0.56 U	< 0.11 U
IW-72	IW-72-101513	10/15/2013	< 1.6 U	< 0.56 U	< 0.11 U
IW-72	IW-72-201403	3/6/2014	< 0.17 U	< 0.080 U	< 0.13 U
IW-72	IW-72-201405	5/12/2014	< 0.17 U	< 0.080 U	< 0.13 U
IW-72	IW-72-201407	7/29/2014	< 0.50 U	< 0.50 U	< 0.50 U
IW-72	IW-72-201410	10/13/2014	< 0.50 U	< 0.50 U	< 0.50 U
IW-72	IW-72-201501	1/12/2015	< 0.50 U	< 0.50 U	< 0.50 U
IW-72	IW-72-201504	4/15/2015	< 0.50 U	< 0.50 U	< 0.50 U
IW-72	IW-72-201507	7/20/2015	0.48 J	< 0.080 U	< 0.13 U
IW-72	IW-72-201510	10/6/2015	0.74 J	< 0.080 U	< 0.13 U
IW-72	IW-72-201601	1/12/2016	1.4	< 0.080 U	< 0.13 U
IW-73	IW-73-20090423	4/23/2009	400	16	< 5 U
IW-73	IW-73-20110519-FS	5/19/2011	160	3.6 J	NT
IW-73	IW-73-20111025	10/25/2011	250	4.9 J	< 5 U
IW-73	IW-73-20120417	4/17/2012	180	5.8	< 5 U
IW-73	IW-73-20121020	10/20/2012	170	7.0	< 0.11 U
IW-73	IW-73-20130424	4/24/2013	200	6.5	< 0.11 U
IW-73	IW-73-20130424-FD	4/24/2013	180	6.4	< 0.11 U
IW-73	IW-73-101513	10/15/2013	140	47	6.3
IW-73	IW-73-201403	3/7/2014	183	20.9	4.6
IW-73	IW-73-201405	5/14/2014	31.9	0.81 J	< 0.13 U
IW-73	IW-73-201407	7/29/2014	138	24.3	26.1
IW-73	IW-73-201410	10/14/2014	8.5	0.84 J	1.1 J
IW-73	IW-73-201501	1/14/2015	70.8	6.3	4.1
IW-73	IW-73-201504	4/15/2015	96.8	6.8	1.6
IW-73	IW-73-201507	7/21/2015	143	9.0	1.5
IW-73	IW-73-201510	10/6/2015	154	7.8	0.59 J
IW-73	IW-73-201601	1/12/2016	103	4.3	0.24 J
IW-74	IW-74-20090423	4/23/2009	260	8.1	< 5 U
IW-74	IW-74-20110519-FS	5/19/2011	74	< 0.56 U	NT
IW-74	IW-74-20111025	10/25/2011	150	3.1 J	< 5 U
IW-74	IW-74-20120417	4/17/2012	130	2.4 J	< 5 U
IW-74	IW-74-20121020	10/20/2012	160	3.4 J	< 0.11 U
IW-74	IW-74-20130424	4/24/2013	160	4.8 J	< 0.11 U
IW-74	IW-74-101513	10/15/2013	190	5.7	< 0.11 U
IW-74	IW-74-201403	3/7/2014	135	4.3 J	1.5 J
IW-74	IW-74-201403-FD	3/7/2014	151	4.5 J	2.2
IW-74	IW-74-201405	5/14/2014	169	4.3 J	0.80 J
IW-74	IW-74-201407	7/29/2014	177	5.8	0.91 J
IW-74	DUP-01-201410	10/14/2014	143	3.3 J	< 0.50 U
IW-74	IW-74-201410	10/14/2014	144	3.3 J	< 0.50 U
IW-74	DUP-01-201501	1/14/2015	139	3.5	< 0.50 U
IW-74	IW-74-201501	1/14/2015	141	3.8	< 0.50 U
IW-74	DUP-05-201504	4/15/2015	153	4.8	< 0.50 U
IW-74	IW-74-201504	4/15/2015	147	5.0	< 0.50 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
IW-74	DUP-08-201507	7/21/2015	168	4.2	1.3
IW-74	IW-74-201507	7/21/2015	168	4.6	1.4
IW-74	DUP-10-201510	10/7/2015	122	3.8	0.33 J
IW-74	IW-74-201510	10/7/2015	121	3.8	0.36 J
IW-74	DUP-05-201601	1/12/2016	135	3.3	0.18 J
IW-74	IW-74-201601	1/12/2016	135	3.2	0.17 J
IW-75	IW-75-20090116	1/16/2009	140	2.4 J	< 5 U
IW-75	IW-75-20111025	10/25/2011	< 5 U	< 5 U	< 5 U
IW-75	IW-75-20120417	4/17/2012	2.9 J	< 5 U	< 5 U
IW-75	IW-75-20121018	10/18/2012	< 1.6 U	< 0.56 U	< 0.11 U
IW-75	IW-75-101513	10/15/2013	< 1.6 U	< 0.56 U	< 0.11 U
IW-76	IW-76-20090423	4/23/2009	730	28	< 5 U
IW-76	IW-76-20090507	5/7/2009	460	28	< 5 U
IW-76	IW-76-20110304-FS	3/4/2011	380	11	< 0.85 U
IW-76	IW-76-20110523-FS	5/23/2011	460	12	NT
IW-76	IW-76-20111025	10/25/2011	130	2.2 J	< 5 U
IW-76	IW-76-20120417	4/17/2012	400	8.9	< 5 U
IW-76	IW-76-20121020	10/20/2012	610	16	< 0.11 U
IW-76	IW-76-20130424	4/24/2013	420	13	0.39 J
IW-76	IW-76-101513	10/15/2013	450	8.7	< 0.11 U
IW-76	IW-76-201403	3/8/2014	127	1.5 J	< 0.13 U
IW-76	IW-76-201405	5/14/2014	10.3	< 0.080 U	< 0.13 U
IW-76	IW-76-201407	7/29/2014	319	2.7 J	< 0.50
IW-76	IW-76-201410	10/15/2014	214	6.7	< 0.50 U
IW-76	IW-76-201501	1/14/2015	288	8.8	< 0.50 U
IW-76	IW-76-201504	4/15/2015	354	11.2	< 0.50 U
IW-76	IW-76-201507	7/21/2015	323	7.3	< 0.13 U
IW-76	IW-76-201510	10/6/2015	106	1.6	< 0.13 U
IW-76	IW-76-201601	1/12/2016	80.2 J	1.9	< 0.13 U
IW-77	IW-77-20090423	4/23/2009	570	20	< 5 U
IW-77	IW-77-20090507	5/7/2009	300	17	< 5 U
IW-77	IW-77-20090527	5/27/2009	250	13	< 5 U
IW-77	IW-77-20091028	10/28/2009	380	13	< 5 U
IW-77	IW-77-20091221-FS	12/21/2009	250	12	< 1.6 U
IW-77	IW-77-20100513	5/13/2010	260	11	< 5 U
IW-77	IW-77-20101105	11/5/2010	1400	41	< 5 U
IW-77	IW-77-20110304-FS	3/4/2011	430	14	< 0.85 U
IW-77	IW-77-20110523-FS	5/23/2011	440	15	NT
IW-77	IW-77-20111025	10/25/2011	1400	32	< 5 U
IW-77	IW-77-20120417-FD	4/17/2012	520	20	< 5 U
IW-77	IW-77-20120417	4/17/2012	510	23	< 5 U
IW-77	IW-77-20121019	10/19/2012	1000	32	0.65 J
IW-77	IW-77-20130424	4/24/2013	530	21	< 0.11 U
IW-77	IW-77-101613	10/16/2013	1000	39	1.6 J
IW-77	IW-77-20131016-FD	10/16/2013	990	39	0.49 J
IW-77	IW-77-201403	3/8/2014	546	24.4	0.22 J
IW-77	IW-77-201405	5/14/2014	1460	36.0	0.66 J
IW-77	20140709-GW-IW-77	7/9/2014	1200	21.1	< 0.50 U
IW-77	IW-77-201407	7/29/2014	1540	35.2	< 0.50 U
IW-77	IW-77-201410	10/15/2014	741	15.8	< 0.50 U
IW-77	IW-77-20141023	10/23/2014	554	11.9	< 0.50 U
IW-77	IW-77-201501	1/14/2015	201	4.8	< 0.50 U
IW-77	IW-77-201504	4/14/2015	153	2.9	< 0.50 U
IW-77	IW-77-201507	7/21/2015	130	2.4	< 0.13 U
IW-77	IW-77-201510	10/8/2015	24.3	0.54 J	< 0.13 U
IW-77	IW-77-201511	11/5/2015	95.1	1.1	< 0.13 U
IW-77	IW-77-201601	1/11/2016	95.3	1.3	< 0.13 U
IW-78	IW-78-20111025	10/25/2011	350	12	< 5 U
IW-78	IW-78-20120418	4/18/2012	120	2.3 J	< 5 U
IW-78	IW-78-20121020	10/20/2012	310	8.7	< 0.11 U
IW-78	IW-78-20130424	4/24/2013	7.0	< 0.56 U	< 0.11 U
IW-78	IW-78-101713	10/17/2013	190	4.6 J	< 0.11 U
IW-78	IW-78-201405	5/28/2014	255	6.2	< 0.13 U
IW-78	IW-78-201409	9/11/2014	39.6	1.2 J	< 0.50 U
IW-78	IW-78-201601	1/11/2016	1.5	< 0.080 U	< 0.13 U
IW-79	IW-79-20111025	10/25/2011	570	13	< 5 U
IW-79	IW-79-20120417	4/17/2012	430	2.1 J	< 5 U
IW-79	IW-79-20121020	10/20/2012	670	20	0.45 J
IW-79	IW-79-20121020-FD	10/20/2012	480	16	< 0.11 U
IW-79	IW-79-20130424	4/24/2013	420	9.0	< 0.11 U
IW-79	IW-79-101713	10/17/2013	440	12	< 0.11 U
IW-79	IW-79-201405	5/28/2014	426	6.9	< 0.13 U
IW-79	IW-79-201409	9/11/2014	105	1.8 J	< 0.50 U
IW-79	IW-79-201601	1/11/2016	70.0	1.4	< 0.13 U
IW-80	IW-80-20090423	4/23/2009	170	4 J	< 5 U
IW-80	IW-80-20090507	5/7/2009	69	< 5 U	< 5 U

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Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
IW-80	IW-80-20110519-FS	5/19/2011	27	< 0.56 U	NT
IW-80	IW-80-20111025	10/25/2011	9.7	< 5 U	< 5 U
IW-80	IW-80-20120417	4/17/2012	55	2.2 J	< 5 U
IW-80	IW-80-20121019	10/19/2012	48	< 0.56 U	< 0.11 U
IW-80	IW-80-20130424	4/24/2013	40	< 0.56 U	< 0.11 U
IW-80	IW-80-101713	10/17/2013	58	2.4 J	< 0.11 U
IW-80	IW-80-20131017-FD	10/17/2013	62	2.4 J	< 0.11 U
IW-80	IW-80-201403	3/8/2014	79.1 J	2.7 J	< 0.13 U
IW-80	IW-80-201405	5/13/2014	24.2	< 0.080 U	< 0.13 U
IW-80	IW-80-201407	7/30/2014	25.6	0.85 J	< 0.50 U
IW-80	IW-80-201410	10/14/2014	11.8	< 0.50 U	< 0.50 U
IW-80	IW-80-201501	1/13/2015	7.1	< 0.50 U	< 0.50 U
IW-80	IW-80-201504	4/14/2015	9.2	< 0.50 U	< 0.50 U
IW-80	IW-80-201507	7/21/2015	12.5	0.39 J	< 0.13 U
IW-80	IW-80-201510	10/6/2015	10.6	0.37 J	< 0.13 U
IW-80	IW-80-201511	11/5/2015	11.0	< 0.080 U	< 0.13 U
IW-80	IW-80-201601	1/7/2016	4.2	< 0.080 U	< 0.13 U
IW-101	IW-101-20140323	3/23/2014	314	7.5	0.21 J
IW-101	IW-101-20140430	4/30/2014	794	18.9	< 0.13 U
IW-101	IW-101-20140523	5/23/2014	509	11.2	< 0.13 U
IW-101	20140708-GW-IW-101	7/8/2014	150	4.5 J	< 0.50 U
IW-101	IW-101-201409	9/12/2014	139	3.4 J	< 0.50 U
IW-101	IW-101-201601	1/7/2016	42.9	1.1	< 0.13 U
IW-102	IW-102-20140323	3/23/2014	685	14.6	0.45 J
IW-102	IW-102-20140430	4/30/2014	239	5.4	< 0.13 U
IW-103	IW-103-20140323	3/23/2014	692	13.1	0.76 J
IW-103	IW-103-20140430	4/30/2014	729	22.8	0.83 J
IW-104	IW-104-20140323	3/23/2014	637	13.5	0.69 J
IW-104	IW-104-20140430	4/30/2014	527	12.6	< 0.13 U
IW-105	IW-105-20140323	3/23/2014	901	14.4	0.54 J
IW-105	IW-105-20140430	4/30/2014	185	4.9 J	< 0.13 U
IW-106	IW-106-20140323	3/23/2014	198	4.2 J	< 2 U
IW-106	IW-106-20140430	4/30/2014	163	6.8	< 0.13 U
IW-106	IW-106-20140523	5/23/2014	132	2.6 J	< 0.13 U
IW-107	IW-107-20140323	3/23/2014	198	4.3 J	0.14 J
IW-107	IW-107-20140430	4/30/2014	110	3.3 J	< 0.13 U
IW-108	IW-108-20140323	3/23/2014	1280	27.8	0.83 J
IW-108	IW-108-20140429	4/29/2014	72.1	4.1 J	< 0.13 U
IW-108	IW-108-20140523	5/23/2014	59.0	1.5 J	< 0.13 U
IW-109	IW-109-20140323	3/23/2014	362	7.4	0.23 J
IW-109	IW-109-20140429	4/29/2014	91.2	2.5 J	< 0.13 U
IW-109	IW-109-20140523	5/23/2014	110	1.9 J	< 0.13 U
IW-110	IW-110-20140323	3/23/2014	464	9.8	0.5 J
IW-110	IW-110	4/16/2014	397	9.4	0.17 J
IW-110	IW-110-20140430	4/30/2014	268	8.2	0.33 J
IW-111	IW-111-20140323	3/23/2014	704	14	0.63 J
IW-111	IW-111-20140429	4/29/2014	260	6.4	< 0.13 U
IW-112	IW-112-20140323	3/23/2014	219	4.9 J	0.23 J
IW-112	IW-112	4/16/2014	200	4.8 J	< 0.13 U
IW-112	IW-112-20140430	4/30/2014	104	3.8 J	< 0.13 U
IW-113	IW-113-20140324	3/24/2014	510	11.1	0.43 J
IW-113	IW-113	4/14/2014	435	8.7	< 0.13 U
IW-114	IW-114-20140324	3/24/2014	397	9.7	0.25 J
IW-114	IW-114	4/14/2014	336	8.1	< 0.13 U
IW-115	IW-115-20140324	3/24/2014	622	14	0.25 J
IW-115	IW-115-20140407	4/7/2014	455	9.1 J	< 1.3 U
IW-115	IW-115	4/14/2014	449	9.3	< 0.13 U
IW-115	IW-115-201405	5/28/2014	504	11.2	0.27 J
IW-115	20140709-GW-IW-115	7/9/2014	352	7.4	< 0.50 U
IW-115	IW-115-201409	9/11/2014	355	8.0	< 0.50 U
IW-115	IW-115-201601	1/11/2016	169	3.6	< 0.13 U
IW-116	IW-116-20140324	3/24/2014	486	10.9	0.33 J
IW-116	IW-116	4/15/2014	546	10.8	0.34 J
IW-117	IW-117-20140324	3/24/2014	384	9.1	0.23 J
IW-117	IW-117	4/15/2014	384	9.9	< 0.13 U
IW-118	IW-118-20140324	3/24/2014	496	11.6	0.34 J
IW-118	IW-118	4/15/2014	395	9.7	< 0.13 U
IW-118	IW-118-201405	5/28/2014	437	9.3	< 0.13 U
IW-119	IW-119-20140324	3/24/2014	524	11.5	0.33 J
IW-119	IW-119-20140407	4/7/2014	478	9.1 J	< 1.3 U
IW-119	IW-119	4/15/2014	509	11.3	< 0.13 U
IW-120	IW-120-20140324	3/24/2014	289	7.9	0.14 J
IW-120	IW-120	4/15/2014	390	10.2	< 0.13 U
IW-121	IW-121-20140324	3/24/2014	402	8.9 J	< 10 U
IW-121	IW-121	4/15/2014	445	11.7	< 0.13 U
IW-122	IW-122-20140324	3/24/2014	473	11.5	0.29 J

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
IW-122	IW-122	4/15/2014	384	10.0	< 0.13 U
IW-123	IW-123-20140324	3/24/2014	532	12.2	0.40 J
IW-123	IW-123-20140407	4/7/2014	539	8.8 J	< 1.3 U
IW-123	IW-123	4/15/2014	488	10.0	< 0.13 U
IW-124	IW-124-20140324	3/24/2014	455	6.8 J	< 10 U
IW-124	IW-124	4/15/2014	448	8.7	0.26 J
IW-125	IW-125-20140325	3/25/2014	2140	207	3.1
IW-125	IW-125-201405	5/29/2014	17.1	2.9 J	< 0.13 U
IW-125	IW-125-201409	9/11/2014	7.3	1.0 J	< 0.50 U
IW-126	IW-126-20140325	3/25/2014	2020	197	10.4
IW-126	IW-126-201405	5/29/2014	787	59.1	< 0.13 U
IW-127	IW-127-20140324	3/24/2014	3700	219 J	7.6
IW-127	IW-127-201405	5/29/2014	639	34.7	< 0.13 U
IW-127	IW-127-201409	9/11/2014	1020	38.5	2.6
IW-127	IW-127-20141204	12/4/2014	182	7.2	< 0.50 U
IW-128	IW-128-20140325	3/25/2014	2980	178	11.7
IW-128	IW-128-20140429	4/29/2014	1250	68.4	4.9
IW-128	IW-128-201405	5/29/2014	1190	62.7	< 0.13 U
IW-129	IW-129-20140325	3/25/2014	2540	192	< 0.13 U
IW-129	IW-129-201405	5/29/2014	25.8	1.8 J	< 0.13 U
IW-130	IW-130-20140323	3/23/2014	358	7.6 J	< 10 U
IW-130	IW-130-20140523	5/23/2014	75.5	0.78 J	< 0.13 U
IW-131	IW-131-20140324	3/24/2014	526	11.5	0.35 J
IW-131	IW-131-20140430	4/30/2014	318	8.5	0.31 J
IW-131	IW-131-201405	5/28/2014	443	8.8	0.30 J
IW-132	IW-132-20141023	10/23/2014	714	3.5 J	< 0.50 U
IW-135	IW-135-20141023	10/23/2014	3840	43.3	2.0
IW-141	IW-141-20141023	10/23/2014	368000	< 1000 U	82.6
IW-141	IW-141-20141205	12/5/2014	46300	232 E	31.0
IW-143	IW-143-20141023	10/23/2014	13100	44.8	2.5
IW-147	IW-147-20141023	10/23/2014	199000	1640 J	< 1000 U
IW-147	IW-147-20141205	12/5/2014	91600	1420 J	176
IW-152	IW-152-20141022	10/22/2014	17600	224 J	8.2
IW-152	IW-152-20141204	12/4/2014	< 0.50 U	< 0.50 U	< 0.50 U
IW-153	IW-153-20141023	10/23/2014	293	85.3	12.3
IW-153	IW-153-20141204	12/4/2014	1.6 J	< 0.50 U	< 0.50 U
IW-155	IW-155-20141023	10/23/2014	14600	36.4	5.8
IW-157	IW-157-20141023	10/23/2014	74200	712 J	195
IW-157	IW-157-20141205	12/5/2014	31700	391 E	66.8
IW-169	IW-169-20141022	10/22/2014	163	1.7 J	< 0.50 U
MW-22	MW-22-19961201	12/1/1996	ND	NT	ND
MW-22	MW-22-19970501	5/1/1997	ND	5	ND
MW-22	MW-22-19990201	2/1/1999	ND	5	ND
MW-22	MW-22-20000301	3/1/2000	ND	ND	ND
MW-22	MW-22-20000919	9/19/2000	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20010327	3/27/2001	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20010913	9/13/2001	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20020910	9/10/2002	9	< 5 U	< 10 U
MW-22	MW-22-20030227	2/27/2003	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20030923	9/23/2003	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20030923-FD	9/23/2003	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20040413	4/13/2004	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20040921	9/21/2004	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20050930	9/30/2005	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20061014	10/14/2006	< 5 U	< 5 U	< 10 UJ
MW-22	MW-22-20070920	9/20/2007	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20081209	12/9/2008	< 5 U	< 5 U	< 5 U
MW-22	MW-22-20091027	10/27/2009	< 5 U	< 5 U	< 5 U
MW-22	MW-22-20101103	11/3/2010	< 5 U	< 5 U	< 5 U
MW-22	MW-22-20111027	10/27/2011	2.1 J	< 5 U	< 5 U
MW-22	MW-22-20120418	4/18/2012	< 5 U	< 5 U	< 5 U
MW-22	MW-22-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-22	MW-22-20130423	4/23/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-22	MW-22-101413	10/14/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-22	MW-22-201403	3/5/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-22	MW-22-201405	5/12/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-22	MW-22-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-22	MW-22-201410	10/15/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-22	MW-22-201501	1/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-22	MW-22-201504	4/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-22	MW-22-201507	7/22/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-22	MW-22-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-22	MW-22-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-23	MW-23-19961201	12/1/1996	210	NT	ND
MW-23	MW-23-19970501	5/1/1997	2400	NT	ND
MW-23	MW-23-19990201	2/1/1999	350	10	ND

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-23	MW-23-19990201-FD	2/1/1999	440	10	ND
MW-23	MW-23-20000301-FD	3/1/2000	147	ND	ND
MW-23	ITMW-23-20000921	9/21/2000	67	< 5 U	< 10 U
MW-23	ITMW-23-20010105	1/5/2001	137	< 5 U	< 10 U
MW-23	ITMW-23-20010326	3/26/2001	87	< 5 U	< 10 U
MW-23	ITMW-23-20010911	9/11/2001	23	< 5 U	< 10 U
MW-23	ITMW-23-20020911	9/11/2002	111	< 5 U	< 10 U
MW-23	MW-23-20020911-FD	9/11/2002	105	< 5 U	< 10 U
MW-23	ITMW-23-20030227	2/27/2003	54	< 5 U	< 10 U
MW-23	ITMW-23-20030925	9/25/2003	83.9	< 5 U	< 10 U
MW-23	ITMW-23-20040415	4/15/2004	70.3	< 5 U	< 10 U
MW-23	ITMW-23-20040922	9/22/2004	73.4	< 5 U	< 10 U
MW-23	ITMW-23-20050405	4/5/2005	55.5	< 5 U	< 10 U
MW-23	ITMW-23-20050929	9/29/2005	65.8	< 5 U	< 10 U
MW-23	ITMW-23-20060317	3/17/2006	47.1	< 5 U	< 10 U
MW-23	ITMW-23-20061014	10/14/2006	59	< 5 U	< 10 UJ
MW-23	ITMW-23-20070419	4/19/2007	39.9	9.79	< 10 U
MW-23	ITMW-23-20070919	9/19/2007	47	< 5 U	< 10 U
MW-23	ITMW-23-20080429	4/29/2008	29	< 5 U	< 10 U
MW-23	ITMW-23-20081210	12/10/2008	69	< 5 U	< 5 U
MW-23	ITMW-23-20090427	4/27/2009	32	< 5 U	< 5 U
MW-23	ITMW-23-20091029	10/29/2009	45	< 5 U	< 5 U
MW-23	MW-23-20100512-FD	5/12/2010	55	< 5 U	< 5 U
MW-23	ITMW-23-20100512	5/12/2010	52	< 5 U	< 5 U
MW-23	ITMW-23-20101105	11/5/2010	76	< 5 U	< 5 U
MW-23	ITMW-23-20110323	3/23/2011	46	< 5 U	< 5 U
MW-23	ITMW-23-20111027	10/27/2011	41	< 5 U	< 5 U
MW-23	ITMW-23-20120418	4/18/2012	36	< 5 U	< 5 U
MW-23	ITMW-23-20121019	10/19/2012	43	< 0.56 U	< 0.11 U
MW-23	ITMW-23-20130425	4/25/2013	20	< 0.56 U	< 0.11 U
MW-23	MW-23-101613	10/16/2013	54	< 0.56 U	< 0.11 U
MW-23	MW-23-20140522	5/22/2014	22.8	< 0.080 U	< 0.13 U
MW-23	20140708-GW-MW-23	7/8/2014	27.8	0.68 J	< 0.50 U
MW-23	MW-23-201409	9/12/2014	62.1	1.8 J	< 0.50 U
MW-23	MW-23-20141023	10/23/2014	189	3.5 J	< 0.50 U
MW-23	MW-23-201501	1/15/2015	115	2.2	< 0.50 U
MW-23	MW-23-201504	4/14/2015	57.5	1.1	< 0.50 U
MW-23	MW-23-201507	7/23/2015	37.8	0.95 J	< 0.13 U
MW-23	MW-23-201510	10/8/2015	0.65 J	< 0.080 U	< 0.13 U
MW-23	MW-23-201511	11/5/2015	0.40 J	< 0.080 U	< 0.13 U
MW-23	MW-23-201601	1/7/2016	0.48 J	< 0.080 U	< 0.13 U
MW-24	MW-24-19990201	2/1/1999	1400	49	ND
MW-24	MW-24-20000301	3/1/2000	403	25	ND
MW-24	MW-24-20000301-FD	3/1/2000	595	24	ND
MW-24	MW-24-20000921	9/21/2000	128	11	< 10 U
MW-24	MW-24-20010105	1/5/2001	247	12	< 10 U
MW-24	MW-24-20010326	3/26/2001	330	11	< 10 U
MW-24	MW-24-20010911	9/11/2001	124	6	< 10 U
MW-24	MW-24-20020911	9/11/2002	199	6	< 10 U
MW-24	MW-24-20030227	2/27/2003	253	7.01	< 10 U
MW-24	MW-24-20030925	9/25/2003	155	< 5 U	< 10 U
MW-24	MW-24-20040415	4/15/2004	181	5.12	< 10 U
MW-24	MW-24-20040923	9/23/2004	116	< 5 U	< 10 U
MW-24	MW-24-20050406	4/6/2005	152	6.04	< 10 U
MW-24	MW-24-20050929	9/29/2005	161	< 5 U	< 10 U
MW-24	MW-24-20060316	3/16/2006	347	7.57	< 10 U
MW-24	MW-24-20061014	10/14/2006	620	11	2 J
MW-24	MW-24-20070419	4/19/2007	196	11.6	< 10 U
MW-24	MW-24-20070920	9/20/2007	140	< 5 U	< 10 U
MW-24	MW-24-20070920-FD	9/20/2007	150	< 5 U	< 10 U
MW-24	MW-24-20080429	4/29/2008	150	3 J	< 10 U
MW-24	MW-24-20081210	12/10/2008	150	3.4 J	< 5 U
MW-24	MW-24-20081210-FD	12/10/2008	130	3.4 J	< 5 U
MW-24	MW-24-20090427	4/27/2009	120	< 5 U	< 5 U
MW-24	MW-24-20091029	10/29/2009	110	2.6 J	< 5 U
MW-24	MW-24-20100512	5/12/2010	150	4.3 J	< 5 U
MW-24	MW-24-20110323	3/23/2011	170	3.6 J	< 5 U
MW-24	MW-24-20111027	10/27/2011	170	1.9 J	< 5 U
MW-24	MW-24-20111027-FD	10/27/2011	170	1.4 J	< 5 U
MW-24	MW-24-20120418	4/18/2012	150	2.9 J	< 5 U
MW-24	MW-24-20121019	10/19/2012	190	3.7 J	< 0.11 U
MW-24	MW-24-20130425	4/25/2013	110	3.5 J	0.23 J
MW-24	MW-24-20140522	5/22/2014	79.7	1.2 J	< 0.13 U
MW-24	20140708-GW-MW-24	7/8/2014	102	1.4 J	< 0.50 U
MW-24	MW-24-201409	9/12/2014	55.7	0.66 J	< 0.50 U
MW-24	MW-24-20141023	10/23/2014	33.1	< 0.50 U	< 0.50 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-24	MW-24-201501	1/15/2015	26.9	< 0.50 U	< 0.50 U
MW-24	MW-24-201504	4/16/2015	18.8	< 0.50 U	< 0.50 U
MW-24	MW-24-201507	7/23/2015	178	3.1	< 0.13 U
MW-24	MW-24-201510	10/8/2015	44.1	0.83 J	< 0.13 U
MW-24	MW-24-201511	11/5/2015	75.8	0.20 J	< 0.13 U
MW-24	MW-24-201601	1/7/2016	49.3	0.48 J	< 0.13 U
MW-25	MW-25-19990201	2/1/1999	29000	170	100
MW-25	MW-25-19990201-FD	2/1/1999	27000	180	110
MW-25	MW-25-19991201	12/1/1999	94500	ND	ND
MW-25	MW-25-20000301	3/1/2000	35900	245	63
MW-25	MW-25-20000921	9/21/2000	59000	300	50
MW-25	MW-25-20010328	3/28/2001	34000	117	60
MW-25	MW-25-20010913	9/13/2001	60000	300	< 200 U
MW-25	MW-25L-20020909	9/9/2002	157000	440	180
MW-25	MW-25T-20020909	9/9/2002	56000	370	200
MW-25	MW-25-20030226	2/26/2003	45900	557	75.7
MW-25	MW-25-20030717	7/17/2003	62200	621	243
MW-25	MW-25-20030924	9/24/2003	103000	775	< 500 U
MW-25	MW-25-20040414	4/14/2004	25600	255	31.8
MW-25	MW-25-20040921	9/21/2004	85200	819	422
MW-25	MW-25-20050407	4/7/2005	21100	353	61.1
MW-25	MW-25-20050928	9/28/2005	136000	837	< 500 U
MW-25	MW-25-20060315	3/15/2006	36300	774	< 200 U
MW-25	MW-25-20061012	10/12/2006	64000	1300	610
MW-25	MW-25-20061012-FD	10/12/2006	65000	1400	600
MW-25	MW-25-20070418	4/18/2007	19000	321	20
MW-25	MW-25-20070418-FD	4/18/2007	18000	319	20
MW-25	MW-25-20070921	9/21/2007	54000	1200	800
MW-25	MW-25-20070921-FD	9/21/2007	55000	1200	780
MW-25	MW-25-20080429	4/29/2008	23000	470	10 J
MW-25	MW-25-20080429-FD	4/29/2008	25000	510	10 J
MW-25	MW-25-20081210	12/10/2008	100000	1200	430
MW-25	MW-25-20090427	4/27/2009	36000	2100	140
MW-25	MW-25-20090427-FD	4/27/2009	39000	2000	190
MW-25	MW-25-20091027	10/27/2009	140000	1500	570
MW-25	MW-25-20100511	5/11/2010	81000	1400	11
MW-25	MW-25-20101104	11/4/2010	270000	1500	400
MW-25	MW-25-20110322	3/22/2011	57000	2400	34
MW-25	MW-25-20111026	10/26/2011	120000	2100	< 250 U
MW-25	MW-25-20120417	4/17/2012	18000	690	18
MW-25	MW-25-20121019	10/19/2012	56000	4200	1500
MW-25	MW-25-20121019-FD	10/19/2012	49000	3600	1500
MW-25	MW-25-20130425	4/25/2013	9100	330	7.9
MW-25	MW-25-20130425-FD	4/25/2013	9500	380	11
MW-25	MW-25-101813	10/18/2013	43000	2900	1300
MW-25	MW-25-201403	3/8/2014	14500	625	33.6 J
MW-25	MW-25-201405	5/15/2014	18500	600 J	30.3
MW-25	20140709-GW-MW-25	7/9/2014	49900	1750	< 0.50 U
MW-25	MW-25-201407	7/31/2014	71700	2310 J	< 500 U
MW-25	MW-25-201410	10/16/2014	42500	2870 J	540 J
MW-25	MW-25-20141024	10/24/2014	59800	2650 J	0.66 J
MW-25	MW-25-20141205	12/5/2014	2620 J	31.5	2.1
MW-25	MW-25-201501	1/15/2015	2510	126	1.6
MW-25	MW-25-201504	4/16/2015	4650	204	6.4
MW-25	MW-25-201507	7/23/2015	39800	580 J	66.4
MW-25	MW-25-201510	10/8/2015	68700	957 J	< 0.13 U
MW-25	MW-25-201601	1/13/2016	43400	608 J	55.0
MW-26	MW-26-19990201	2/1/1999	360	150	ND
MW-26	MW-26-19990601	6/1/1999	ND	ND	ND
MW-26	MW-26-20000301	3/1/2000	ND	ND	ND
MW-26	MW-26-20000921	9/21/2000	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20010326	3/26/2001	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20010911	9/11/2001	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20010911-FD	9/11/2001	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20020910	9/10/2002	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20030227	2/27/2003	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20030924	9/24/2003	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20040414	4/14/2004	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20040922	9/22/2004	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20050929	9/29/2005	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20061012	10/12/2006	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-26	MW-26-20091029	10/29/2009	< 5 U	< 5 U	< 5 U
MW-26	MW-26-20100512	5/12/2010	< 5 U	< 5 U	< 5 U
MW-26	MW-26-20101105	11/5/2010	22	< 5 U	< 5 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-26	MW-26-20111026	10/26/2011	< 5 U	< 5 U	< 5 U
MW-26	MW-26-20120418	4/18/2012	< 5 U	< 5 U	< 5 U
MW-26	MW-26-20121018	10/18/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-26	MW-26-20130423	4/23/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-26	MW-26-101513	10/15/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-26	MW-26-201403	3/5/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-26	MW-26-201405	5/12/2014	0.25 J	< 0.080 U	< 0.13 U
MW-26	MW-26-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-26	MW-26-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-26	MW-26-201501	1/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-26	MW-26-201504	4/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-26	MW-26-201507	7/22/2015	0.18 J	< 0.080 U	< 0.13 U
MW-26	MW-26-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-26	MW-26-201601	1/13/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-27	MW-27-19991201	12/1/1999	ND	ND	ND
MW-27	MW-27-19991207	12/7/1999	< 5 U	< 5 U	< 10 U
MW-27	MW-27-19991209	12/9/1999	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20000301	3/1/2000	ND	ND	ND
MW-27	MW-27-20000921	9/21/2000	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20010105	1/5/2001	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20010105-FD	1/5/2001	5.55	< 5 U	< 10 U
MW-27	MW-27-20010326	3/26/2001	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20010911	9/11/2001	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20020911	9/11/2002	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20020911-FD	9/11/2002	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20030227	2/27/2003	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20030925	9/25/2003	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20040415	4/15/2004	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20040922	9/22/2004	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20050929	9/29/2005	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20061014	10/14/2006	2 J	< 5 U	< 10 U
MW-27	MW-27-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-27	MW-27-20100512	5/12/2010	3.1 J	< 5 U	< 5 U
MW-27	MW-27-20101105	11/5/2010	42	< 5 U	< 5 U
MW-27	MW-27-20111027	10/27/2011	< 5 U	< 5 U	< 5 U
MW-27	MW-27-20120418	4/18/2012	2.6 J	< 5 U	< 5 U
MW-27	MW-27-20121018	10/18/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-27	MW-27-20130424	4/24/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-27	MW-27-101513	10/15/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-27	MW-27-201403	3/7/2014	0.31 J	< 0.080 U	< 0.13 U
MW-27	MW-27-201405	5/13/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-27	MW-27-201407	7/30/2014	0.63 J	< 0.50 U	< 0.50 U
MW-27	MW-27-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-27	MW-27-201501	1/14/2015	0.84 J	0.59 J	< 0.50 U
MW-27	MW-27-201504	4/13/2015	0.59 J	< 0.50 U	< 0.50 U
MW-27	MW-27-201507	7/22/2015	0.18 J	< 0.080 U	< 0.13 U
MW-27	MW-27-201510	10/7/2015	0.55 J	0.33 J	< 0.13 U
MW-27	MW-27-201601	1/12/2016	0.61 J	0.42 J	< 0.13 U
MW-28	MW-28-19991201	12/1/1999	ND	ND	ND
MW-28	MW-28-19991209	12/9/1999	< 5 U	< 5 U	< 10 U
MW-28	MW-28-19991209-FD	12/9/1999	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20000301	3/1/2000	ND	ND	ND
MW-28	MW-28-20000921	9/21/2000	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20010327	3/27/2001	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20010327-FD	3/27/2001	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20010911	9/11/2001	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20020911	9/11/2002	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20030227	2/27/2003	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20030925	9/25/2003	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20040415	4/15/2004	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20040922	9/22/2004	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20050930	9/30/2005	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20061014	10/14/2006	< 5 U	< 5 U	< 10 UJ
MW-28	MW-28-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-28	MW-28-20091029	10/29/2009	< 5 U	< 5 U	< 5 U
MW-28	MW-28-20100512	5/12/2010	2.6 J	< 5 U	< 5 U
MW-28	MW-28-20101105	11/5/2010	54	< 5 U	< 5 U
MW-28	MW-28-20110323	3/23/2011	1.6 J	< 5 U	< 5 U
MW-28	MW-28-20111027	10/27/2011	< 5 U	< 5 U	< 5 U
MW-28	MW-28-20120419	4/19/2012	< 5 U	< 5 U	< 5 U
MW-28	MW-28-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-28	MW-28-20130424	4/24/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-28	MW-28-101513	10/15/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-28	MW-28-201403	3/6/2014	< 0.17 U	< 0.080 U	< 0.13 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-28	MW-28-201405	5/13/2014	0.30 J	< 0.080 U	< 0.13 U
MW-28	MW-28-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-28	MW-28-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-28	MW-28-201501	1/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-28	MW-28-201504	4/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-28	MW-28-201507	7/22/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-28	MW-28-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-28	MW-28-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-29	MW-29-19991201	12/1/1999	ND	ND	ND
MW-29	MW-29-19991209	12/9/1999	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20000301	3/1/2000	ND	ND	ND
MW-29	MW-29-20000920	9/20/2000	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20010327	3/27/2001	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20010911	9/11/2001	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20020910	9/10/2002	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20030227	2/27/2003	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20030924	9/24/2003	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20040414	4/14/2004	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20040922	9/22/2004	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20050928	9/28/2005	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20061012	10/12/2006	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-29	MW-29-20081210-FD	12/10/2008	< 5 U	< 5 U	< 5 U
MW-29	MW-29-20091029	10/29/2009	< 5 U	< 5 U	< 5 U
MW-29	MW-29-20111025	10/25/2011	< 5 U	< 5 U	< 5 U
MW-29	MW-29-20120418	4/18/2012	< 5 U	< 5 U	< 5 U
MW-29	MW-29-20121018	10/18/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-29	MW-29-20130423	4/23/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-29	MW-29-101413	10/14/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-29	MW-29-201403	3/5/2014	0.52 J	< 0.080 U	< 0.13 U
MW-29	MW-29-201405	5/13/2014	0.18 J	< 0.080 U	< 0.13 U
MW-29	MW-29-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-29	MW-29-201410	10/15/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-29	MW-29-201501	1/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-29	MW-29-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-29	MW-29-201507	7/22/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-29	MW-29-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-29	MW-29-201601	1/13/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-30	MW-30-19991201	12/1/1999	115	34	ND
MW-30	MW-30-19991209	12/9/1999	115	34	< 10 U
MW-30	MW-30-20000301	3/1/2000	86	25	ND
MW-30	MW-30-20000920	9/20/2000	102	25	< 10 U
MW-30	MW-30-20010327	3/27/2001	43	11	< 10 U
MW-30	MW-30-20010911	9/11/2001	63	18	< 10 U
MW-30	MW-30-20020910	9/10/2002	48	14	< 10 U
MW-30	MW-30-20030227	2/27/2003	60	20.3	< 10 U
MW-30	MW-30-20030924	9/24/2003	46.8	13.7	< 10 U
MW-30	MW-30-20040414	4/14/2004	36.6	11.8	< 10 U
MW-30	MW-30-20040922	9/22/2004	36.2	12.1	< 10 U
MW-30	MW-30-20050928	9/28/2005	59.6	15.6	< 10 U
MW-30	MW-30-20061012	10/12/2006	53	15	< 10 U
MW-30	MW-30-20070920	9/20/2007	39	11	< 10 U
MW-30	MW-30-20081210	12/10/2008	37	11	< 5 U
MW-30	MW-30-20101103	11/3/2010	50	15	< 5 U
MW-30	MW-30-20111026	10/26/2011	57	16	< 5 U
MW-30	MW-30-20120418	4/18/2012	150	32	< 5 U
MW-30	MW-30-20121018	10/18/2012	65	19	< 0.11 U
MW-30	MW-30-20130425	4/25/2013	49	18	0.49 J
MW-30	MW-30-101413	10/14/2013	40	16	< 0.11 U
MW-31	MW-31-20010105	1/5/2001	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20010326	3/26/2001	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20010913	9/13/2001	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20020911	9/11/2002	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20030228	2/28/2003	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20030925	9/25/2003	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20040415	4/15/2004	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20040923	9/23/2004	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20050405	4/5/2005	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20050927	9/27/2005	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20060315	3/15/2006	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20061011	10/11/2006	3 J	< 5 U	< 10 U
MW-31	MW-31-20070419	4/19/2007	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20070918	9/18/2007	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20080430	4/30/2008	2 J	< 5 U	< 10 U
MW-31	MW-31-20081211	12/11/2008	< 5 U	< 5 U	< 5 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-31	MW-31-20090425	4/25/2009	< 5 U	< 5 U	< 5 U
MW-31	MW-31-20100512	5/12/2010	< 5 U	< 5 U	< 5 U
MW-31	MW-31-20101107	11/7/2010	48	< 5 U	< 5 U
MW-31	MW-31-20110323	3/23/2011	< 5 U	< 5 U	< 5 U
MW-31	MW-31-20111026	10/26/2011	< 5 U	< 5 U	< 5 U
MW-31	MW-31-20121019	10/19/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-31	MW-31-101813	10/18/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-31	MW-31-201403	3/6/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-31	MW-31-201405	5/13/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-31	DUP-1-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-31	MW-31-201407	7/30/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-31	MW-31-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-31	MW-31-201501	1/12/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-31R	MW-31R-GW-20150119	1/19/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-31R	MW-31R-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-31R	MW-31R-201507	7/21/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-31R	MW-31R-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-31R	MW-31R-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-32	MW-32-20010105	1/5/2001	108	< 5 U	< 10 U
MW-32	MW-32-20010327	3/27/2001	174	< 5 U	< 10 U
MW-32	MW-32-20010913	9/13/2001	95	< 5 U	< 10 U
MW-32	MW-32-20020911	9/11/2002	109	< 5 U	< 10 U
MW-32	MW-32-20030228	2/28/2003	133	< 5 U	< 10 U
MW-32	MW-32-20030925	9/25/2003	32.3	< 5 U	< 10 U
MW-32	MW-32-20040415	4/15/2004	76.9	< 5 U	< 10 U
MW-32	MW-32-20040923	9/23/2004	51.4	< 5 U	< 10 U
MW-32	MW-32-20050405	4/5/2005	158	< 5 U	< 10 U
MW-32	MW-32-20050927	9/27/2005	97.6	< 5 U	< 10 U
MW-32	MW-32-20060315	3/15/2006	111	< 5 U	< 10 U
MW-32	MW-32-20061012	10/12/2006	85	4 J	< 10 U
MW-32	MW-32-20070419	4/19/2007	66.3	10.1	< 10 U
MW-32	MW-32-20070918	9/18/2007	78	< 5 U	< 10 U
MW-32	MW-32-20080430	4/30/2008	70	2 J	< 10 U
MW-32	MW-32-20081211	12/11/2008	60	< 5 U	< 5 U
MW-32	MW-32-20090425	4/25/2009	47	< 5 U	< 5 U
MW-32	MW-32-20091028	10/28/2009	68	1.8 J	< 5 U
MW-32	MW-32-20100512	5/12/2010	58	< 5 U	< 5 U
MW-32	MW-32-20101106	11/6/2010	120	< 5 U	< 5 U
MW-32	MW-32-20110324	3/24/2011	66	1.4 J	< 5 U
MW-32	MW-32-20111026	10/26/2011	73	< 5 U	< 5 U
MW-32	MW-32-20121019	10/19/2012	61	1.2 J	< 0.11 U
MW-32	MW-32-101813	10/18/2013	48	1.4 J	< 0.11 U
MW-32	MW-32-201403	3/8/2014	36.8	1.1 J	< 0.13 U
MW-32	MW-32-201405	5/13/2014	33.1	0.19 J	< 0.13 U
MW-32	MW-32-201407	7/29/2014	37.2	1.0 J	< 0.50 U
MW-32	MW-32-201410	10/14/2014	29.7	0.80 J	< 0.50 U
MW-32	MW-32-201501	1/14/2015	20.2	0.55 J	< 0.50 U
MW-32R	MW-32R-GW-20150119	1/19/2015	12.9	< 0.50 U	< 0.50 U
MW-32R	MW-32R-201504	4/15/2015	11.2	< 0.50 U	< 0.50 U
MW-32R	MW-32R-201507	7/21/2015	7.4	0.29 J	< 0.13 U
MW-32R	MW-32R-201510	10/7/2015	8.2	0.37 J	< 0.13 U
MW-32R	MW-32R-201601	1/12/2016	13.1	0.45 J	< 0.13 U
MW-33	MW-33-20010105	1/5/2001	120	< 5 U	< 10 U
MW-33	MW-33-20010327	3/27/2001	260	7	< 10 U
MW-33	MW-33-20010913	9/13/2001	310	8	< 10 U
MW-33	MW-33-20020911	9/11/2002	450	8	< 10 U
MW-33	MW-33-20030228	2/28/2003	274	6.62	< 10 U
MW-33	MW-33-20030925	9/25/2003	198	5.95	< 10 U
MW-33	MW-33-20040415	4/15/2004	871	21.3	< 10 U
MW-33	MW-33-20040923	9/23/2004	798	15.3	< 10 U
MW-33	MW-33-20050405	4/5/2005	1430	24.5	< 10 U
MW-33	MW-33-20050927	9/27/2005	1030	15.2	< 10 U
MW-33	MW-33-20060315	3/15/2006	1610	20.5	< 10 U
MW-33	MW-33-20061012	10/12/2006	1300	19	< 10 U
MW-33	MW-33-20070419	4/19/2007	1430	9.2 J	< 50 U
MW-33	MW-33-20070918	9/18/2007	1700	25	< 10 U
MW-33	MW-33-20080430	4/30/2008	1100	16	< 10 U
MW-33	MW-33-20081211	12/11/2008	1200	18	< 5 U
MW-33	MW-33-20090425	4/25/2009	1200	19	< 5 U
MW-33	MW-33-20090527	5/27/2009	1000	19	< 5 U
MW-33	MW-33-20091028	10/28/2009	1200	20	< 5 U
MW-33	MW-33-20100512	5/12/2010	1100	21	< 5 U
MW-33	MW-33-20101106	11/6/2010	1200	17	< 5 U
MW-33	MW-33-20110304-FS	3/4/2011	500	14	< 0.85 U
MW-33	MW-33-20110523-FS	5/23/2011	1300	18	NT
MW-33	MW-33-20111026	10/26/2011	1000	16	< 5 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-33	MW-33-20121019	10/19/2012	1300	18	0.56 J
MW-33	MW-33-101813	10/18/2013	1100	19	< 0.11 U
MW-33	MW-33-201403	3/8/2014	918	15.9	0.56 J
MW-33	MW-33-201405	5/14/2014	954	15.1	0.56 J
MW-33	MW-33-201407	7/29/2014	1600	20.8	0.59 J
MW-33	MW-33-201410	10/15/2014	1290	15.3	< 0.50 U
MW-33	MW-33-201501	1/14/2015	1080	13.9	< 0.50 U
MW-33R	MW-33R-GW-20150118	1/18/2015	799	9.9	< 0.50 U
MW-33R	DUP-01-201504	4/15/2015	624	10.5	< 0.50 U
MW-33R	MW-33R-201504	4/15/2015	570	12.2	0.37 J
MW-33R	DUP-04-201507	7/22/2015	447	6.1	< 0.13 U
MW-33R	MW-33R-201507	7/22/2015	488	6.8	< 0.13 U
MW-33R	DUP-05-201510	10/8/2015	460	6.3	0.28 J
MW-33R	MW-33R-201510	10/8/2015	562	6.1	0.31 J
MW-33R	MW-33R-201511	11/5/2015	752	8.0	0.39 J
MW-33R	MW-33R-201601	1/8/2016	724	7.6	< 0.13 U
MW-34	MW-34-20010328	3/28/2001	83	< 5 U	< 10 U
MW-34	MW-34-20010913	9/13/2001	61	< 5 U	< 10 U
MW-34	MW-34L-20020909	9/9/2002	84	< 5 U	< 10 U
MW-34	MW-34-20030228	2/28/2003	< 5 U	< 5 U	< 10 U
MW-34	MW-34-20030925	9/25/2003	28.4	< 5 U	< 10 U
MW-34	MW-34-20031114	11/14/2003	121	< 5 U	< 10 U
MW-34	MW-34-20040415	4/15/2004	119	< 5 U	< 10 U
MW-34	MW-34-20040923	9/23/2004	81.1	< 5 U	< 10 U
MW-34	MW-34-20041209	12/9/2004	93.3	< 5 U	< 10 U
MW-34	MW-34-20050405	4/5/2005	65.8	< 5 U	< 10 U
MW-34	MW-34-20050930	9/30/2005	83.7	< 5 U	< 10 U
MW-34	MW-34-20060314	3/14/2006	77.1	< 5 U	< 10 U
MW-34	MW-34-20061011	10/11/2006	63	4 J	< 10 U
MW-34	MW-34-20070418	4/18/2007	41	9.79	< 10 U
MW-34	MW-34-20070919	9/19/2007	61	< 5 U	< 10 U
MW-34	MW-34-20080430	4/30/2008	32	< 5 U	< 10 U
MW-34	MW-34-20081210	12/10/2008	53	< 5 U	< 5 U
MW-34	MW-34-20090424	4/24/2009	43	< 5 U	< 5 U
MW-34	MW-34-20090527	5/27/2009	12	< 5 U	< 5 U
MW-34	MW-34-20091028	10/28/2009	34	< 5 U	< 5 U
MW-34	MW-34-20100512	5/12/2010	38	< 5 U	< 5 U
MW-34	MW-34-20101107-FD	11/7/2010	70	< 5 U	< 5 U
MW-34	MW-34-20101107	11/7/2010	73	< 5 U	< 5 U
MW-34	MW-34-20110324-FD	3/24/2011	40	< 5 U	< 5 U
MW-34	MW-34-20110324	3/24/2011	42	< 5 U	< 5 U
MW-34	MW-34-20111026	10/26/2011	56	< 5 U	< 5 U
MW-34	MW-34-20121020	10/20/2012	90	1.6 J	< 0.11 U
MW-34	MW-34-101713	10/17/2013	43	0.90 J	< 0.11 U
MW-34	MW-34-201403	3/8/2014	28.7	0.61 J	< 0.13 U
MW-34	MW-34-201405	5/13/2014	19.9	< 0.080 U	< 0.13 U
MW-34	MW-34-201407	7/29/2014	78.2	1.7 J	< 0.50 U
MW-34	MW-34-201410	10/15/2014	47.7	0.96 J	< 0.50 U
MW-34	MW-34-201501	1/13/2015	22.0	< 0.50 U	< 0.50 U
MW-34	MW-34-201504	4/14/2015	13.8	< 0.50 U	< 0.50 U
MW-34R	MW-34R-201507	7/21/2015	3.5	< 0.080 U	< 0.13 U
MW-34R	MW-34R-201510	10/8/2015	4.5	0.16 J	< 0.13 U
MW-34R	MW-34R-201601	1/11/2016	2.6	0.30 J	< 0.13 U
MW-35R	MW-35R-20010328	3/28/2001	960	34	< 10 U
MW-35R	MW-35R-20010913	9/13/2001	1030	40	< 20 U
MW-35R	MW-35L-20020909	9/9/2002	900	31	< 10 U
MW-35R	MW-35R-20030228	2/28/2003	246	15.1	< 10 U
MW-35R	MW-35R-20030925	9/25/2003	297	19.8	< 10 U
MW-35R	MW-35R-20031114	11/14/2003	990	34.9	< 10 U
MW-35R	MW-35R-20040415	4/15/2004	1150	45.8	< 10 U
MW-35R	MW-35R-20040923	9/23/2004	685	28.4	< 10 U
MW-35R	MW-35R-20041209	12/9/2004	880	42	< 10 U
MW-35R	MW-35R-20050406	4/6/2005	886	35	< 10 U
MW-35R	MW-35R-20050930	9/30/2005	804	29.3	< 10 U
MW-35R	MW-35R-20060314	3/14/2006	858	24.2	< 10 U
MW-35R	MW-35R-20060406	4/6/2006	1540	52.5	< 10 U
MW-35R	MW-35R-20061011	10/11/2006	910	29	< 10 U
MW-35R	MW-35R-20070418	4/18/2007	900	27.6	< 10 U
MW-35R	MW-35R-20070919	9/19/2007	1100	28	< 10 U
MW-35R	MW-35R-20080430	4/30/2008	1100	33	< 10 U
MW-35R	MW-35R-20081211	12/11/2008	790	27	< 5 U
MW-35R	MW-35R-20090424	4/24/2009	1100	37	< 5 U
MW-35R	MW-35R-20090507	5/7/2009	< 5 U	< 5 U	< 5 U
MW-35R	MW-35R-20090527	5/27/2009	< 5 U	< 5 U	< 5 U
MW-35R	MW-35R-20101105	11/5/2010	240	9.9	< 5 U
MW-35R	MW-35R-20110304-FS	3/4/2011	180	8.4	< 0.85 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-35R	MW-35R-20110523-FS	5/23/2011	260	13	NT
MW-35R	MW-35R-20111025	10/25/2011	280	12	< 5 U
MW-35R	MW-35R-20121020	10/20/2012	280	10	< 0.11 U
MW-35R	MW-35R-101713	10/17/2013	200	12	< 0.11 U
MW-35R	MW-35R-20131017-FD	10/17/2013	220	13	NT
MW-35R	MW-35R-201403	3/8/2014	345	14.9	< 0.13 U
MW-35R	MW-35R-201405	5/13/2014	183	6.1	< 0.13 U
MW-35R	MW-35R-201407	7/30/2014	64.7	2.8 J	< 0.50 U
MW-35R	MW-35R-201410	10/14/2014	79.2	2.6 J	< 0.50 U
MW-35R	MW-35R-201501	1/13/2015	10.9	< 0.50 U	< 0.50 U
MW-35R	MW-35R-201504	4/14/2015	39.5	1.3	< 0.50 U
MW-35R	MW-35R-201507	7/21/2015	33.7	1.0	< 0.13 U
MW-35R	MW-35R-201510	10/7/2015	15.4	0.58 J	< 0.13 U
MW-35R	MW-35R-201511	11/4/2015	23.6	0.36 J	< 0.13 U
MW-35R	MW-35R-201601	1/11/2016	13.2	0.34 J	< 0.13 U
MW-36	MW-36-20010328	3/28/2001	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20010913	9/13/2001	< 5 U	< 5 U	< 10 U
MW-36	MW-36L-20020909	9/9/2002	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20030228	2/28/2003	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20030925	9/25/2003	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20031114	11/14/2003	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20040415	4/15/2004	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20040923	9/23/2004	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20050406	4/6/2005	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20050930	9/30/2005	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20060317	3/17/2006	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20061011	10/11/2006	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20070418	4/18/2007	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20070920	9/20/2007	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20080430	4/30/2008	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20081211	12/11/2008	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20090424	4/24/2009	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20090507	5/7/2009	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20090508	5/8/2009	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20090528	5/28/2009	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20091028	10/28/2009	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20100512	5/12/2010	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20101107	11/7/2010	9.9	< 5 U	< 5 U
MW-36	MW-36-20110324	3/24/2011	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20111026	10/26/2011	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20121019	10/19/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-36	MW-36-101713	10/17/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-36	MW-36-201403	3/6/2014	0.22 J	< 0.080 U	< 0.13 U
MW-36	MW-36-201405	5/13/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-36	MW-36-201407	7/29/2014	0.61 J	< 0.50 U	< 0.50 U
MW-36	MW-36-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-36	MW-36-201501	1/12/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-36	MW-36-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-36R	MW-36R-201507	7/20/2015	< 0.17 UJ	< 0.080 UJ	< 0.13 UJ
MW-36R	MW-36R-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-36R	MW-36R-201601	1/11/2016	0.31 J	< 0.080 U	< 0.13 U
MW-37	MW-37-20010914	9/14/2001	5000	340	< 100 U
MW-37	MW-37-20011120	11/20/2001	< 5 U	< 5 U	< 10 U
MW-37	MW-37-20020911	9/11/2002	1400	10000	300
MW-37	MW-37-20030227	2/27/2003	4050	5660	2500
MW-37	MW-37-20030717	7/17/2003	2560	1710	316
MW-37	MW-37-20030924	9/24/2003	3700	7020	973
MW-37	MW-37-20040413	4/13/2004	5190	3160	1180
MW-37	MW-37-20040921	9/21/2004	5030	5650	1370
MW-37	MW-37-20050405	4/5/2005	5310	2360	1030 E
MW-37	MW-37-20050929	9/29/2005	6780	3210	910 E
MW-37	MW-37-20060316	3/16/2006	11200	5020	1730
MW-37	MW-37-20061013	10/13/2006	13000	5300	1200
MW-37	MW-37-20061013-FD	10/13/2006	13000	5000	1200
MW-37	MW-37-20070419	4/19/2007	9490	3010	780
MW-37	MW-37-20070921	9/21/2007	22000	9100	2800
MW-37	MW-37-20080430	4/30/2008	16000	3300	1800
MW-37	MW-37-20081210	12/10/2008	24000	6300	1800
MW-37	MW-37-20090427	4/27/2009	11000	3200	1200
MW-37	MW-37-20091027	10/27/2009	37000	7400	2200
MW-37	MW-37-20100511	5/11/2010	33000	7200	2400
MW-37	MW-37-20101104	11/4/2010	54000	10000	2200
MW-37	MW-37-20110322	3/22/2011	36000	6000	2300
MW-37	MW-37-20111026	10/26/2011	57000	9700	2500
MW-37	MW-37-20120418	4/18/2012	29000	5300	2100
MW-37	MW-37-20121019	10/19/2012	4800	1100	230

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-37	MW-37-20130425	4/25/2013	1700	900	230
MW-37	MW-37-101713	10/17/2013	1100	1500	1300
MW-38	MW-38-20010914	9/14/2001	620	90	< 20 U
MW-38	MW-38-20050929	9/29/2005	< 5 U	98.9	2150
MW-38	MW-38-20061013	10/13/2006	26	130	2000 J
MW-38	MW-38-20081210	12/10/2008	44	110	1400
MW-38	MW-38-20111026	10/26/2011	580	870	1100
MW-38	MW-38-20121018	10/18/2012	1000	750	700
MW-38	MW-38-101613	10/16/2013	2300	1200	560
MW-38	MW-38-201403	3/8/2014	1790	535	68.4
MW-38	DUP1-201405	5/14/2014	2040	426 J	98.2
MW-38	MW-38-201405	5/14/2014	1650	428	97.9
MW-38	MW-38-201407	7/31/2014	1720	637	197
MW-38	DUP-06-201410	10/16/2014	6970	869	370
MW-38	MW-38-201410	10/16/2014	6750	781	321
MW-38	MW-38-20141204	12/4/2014	3190	697	193
MW-38	DUP-06-201501	1/15/2015	3910	1190	143
MW-38	MW-38-201501	1/15/2015	5440	1900	133
MW-38	MW-38-201504	4/16/2015	3060	2060	33.7
MW-38	MW-38-201507	7/23/2015	3420	1340	119
MW-38	MW-38-201510	10/8/2015	2740	1340	190
MW-38	MW-38-201601	1/13/2016	3680	1180	84.3
MW-39	MW-39-20030718	7/18/2003	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20030925	9/25/2003	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20031114	11/14/2003	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20040415	4/15/2004	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20040923	9/23/2004	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20050408	4/8/2005	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20050930	9/30/2005	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20060317	3/17/2006	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20061011	10/11/2006	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20070418	4/18/2007	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20080430	4/30/2008	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20081209	12/9/2008	< 5 U	< 5 U	< 5 U
MW-39	MW-39-20090424	4/24/2009	< 5 U	< 5 U	< 5 U
MW-39	MW-39-20091027	10/27/2009	< 5 U	< 5 U	< 5 U
MW-39	MW-39-20100511	5/11/2010	< 5 U	< 5 U	< 5 U
MW-39	MW-39-20101107	11/7/2010	20	< 5 U	< 5 U
MW-39	MW-39-20110324	3/24/2011	< 5 U	< 5 U	< 5 U
MW-39	MW-39-20111026	10/26/2011	< 5 U	< 5 U	< 5 U
MW-39	MW-39-20121019	10/19/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-39	MW-39-101813	10/18/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-39	MW-39-201403	3/6/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-39	MW-39-201405	5/13/2014	0.23 J	< 0.080 U	< 0.13 U
MW-39	MW-39-201407	7/29/2014	0.79 J	< 0.50 U	< 0.50 U
MW-39	MW-39-201410	10/13/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-39	MW-39-201501	1/12/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-39	MW-39-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-39R	MW-39R-201507	7/20/2015	< 0.17 UJ	< 0.080 UJ	< 0.13 UJ
MW-39R	MW-39R-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-39R	MW-39R-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-40	MW-40-20030718	7/18/2003	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20030925	9/25/2003	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20031114	11/14/2003	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20031114-FD	11/14/2003	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20040415	4/15/2004	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20040923	9/23/2004	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20050407	4/7/2005	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20050929	9/29/2005	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20060314	3/14/2006	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20061010	10/10/2006	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20070418	4/18/2007	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20070918	9/18/2007	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20080428	4/28/2008	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20081211	12/11/2008	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20090424	4/24/2009	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20090527	5/27/2009	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20091029	10/29/2009	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20100512	5/12/2010	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20101104	11/4/2010	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20110323	3/23/2011	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20111026	10/26/2011	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20120418	4/18/2012	3.9 J	< 5 U	< 5 U
MW-40	MW-40-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-40	MW-40-20130423	4/23/2013	< 1.6 U	< 0.56 U	< 0.11 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-40	MW-40-101513	10/15/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-40	MW-40-201403	3/6/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-40	MW-40-201405	5/12/2014	0.76 J	< 0.080 U	< 0.13 U
MW-40	MW-40-201407	7/29/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-40	MW-40-201410	10/13/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-40	MW-40-201501	1/12/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-40	MW-40-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-40R	MW-40R-201507	7/20/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-40R	DUP-03-201510	10/6/2015	0.83 J	< 0.080 U	< 0.13 U
MW-40R	MW-40R-201510	10/6/2015	0.30 J	0.23 J	< 0.13 U
MW-40R	DUP-06-201601	1/12/2016	0.28 J	0.22 J	< 0.13 U
MW-40R	MW-40R-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-41	MW-41-20030718	7/18/2003	972	50.6	< 10 U
MW-41	MW-41-20030718-FD	7/18/2003	964	45.5	< 10 U
MW-41	MW-41-20030925	9/25/2003	722	37.8	< 10 U
MW-41	MW-41-20031114	11/14/2003	331	205	< 10 U
MW-41	MW-41-20040415	4/15/2004	760	54.2	< 10 U
MW-41	MW-41-20040923	9/23/2004	1060	48	< 10 U
MW-41	MW-41-20050407	4/7/2005	1170	58	< 10 U
MW-41	MW-41-20050930	9/30/2005	1120	55.8	< 10 U
MW-41	MW-41-20060317	3/17/2006	917	52.5	< 10 U
MW-41	MW-41-20061013	10/13/2006	970	43	< 10 UJ
MW-41	MW-41-20070418	4/18/2007	900	30.1	< 10 U
MW-41	MW-41-20070920	9/20/2007	850	32	< 10 U
MW-41	MW-41-20080430	4/30/2008	730	31	< 10 U
MW-41	MW-41-20081211	12/11/2008	820	29	< 5 U
MW-41	MW-41-20090424	4/24/2009	660	25	< 5 U
MW-41	MW-41-20090507	5/7/2009	180	4.7 J	< 5 U
MW-41	MW-41-20090508	5/8/2009	180	4.7 J	< 5 U
MW-41	MW-41-20090527	5/27/2009	230	16	< 5 U
MW-41	MW-41-20091028	10/28/2009	180	4 J	< 5 U
MW-41	MW-41-20100513	5/13/2010	610	19	< 5 U
MW-41	MW-41-20101105	11/5/2010	930	31	< 5 U
MW-41	MW-41-20110304-FS	3/4/2011	120	20	< 0.85 U
MW-41	MW-41-20110523-FS	5/23/2011	370	15	NT
MW-41	MW-41-20111025	10/25/2011	420	18	< 5 U
MW-41	MW-41-20121020	10/20/2012	620	23	< 0.11 U
MW-41	MW-41-20121020-FD	10/20/2012	550	21	< 0.11 U
MW-41	MW-41-101613	10/16/2013	520	24	< 0.11 U
MW-41	MW-41-201403	3/7/2014	501	19.7	0.68 J
MW-41	MW-41-201405	5/14/2014	518	18.0	0.50 J
MW-41	DUP-2-201407	7/30/2014	511	19.1	< 0.50 U
MW-41	MW-41-201407	7/30/2014	480	19.7	< 0.50 U
MW-41	MW-41-201410	10/15/2014	491	16.9	< 0.50 U
MW-41	MW-41-201501	1/14/2015	425	15.6	< 0.50 U
MW-41	DUP-02-201504	4/15/2015	410	13.5	< 0.50
MW-41	MW-41-201504	4/15/2015	386	15.2	0.27 J
MW-41R	DUP-03-201507	7/21/2015	43.0	2.8	< 0.13 U
MW-41R	MW-41R-201507	7/21/2015	40.4	3.3	< 0.13 U
MW-41R	DUP-07-201510	10/6/2015	46.4	35.2	0.33 J
MW-41R	MW-41R-201510	10/6/2015	48.7	36.7	0.39 J
MW-41R	DUP-07-201601	1/12/2016	56.6	40.1	0.35 J
MW-41R	MW-41R-201601	1/12/2016	59.9	40.9	0.38 J
MW-42B	MW-42B-20031114	11/14/2003	481	21.1	< 10 U
MW-42B	MW-42B-20040415	4/15/2004	856	29.3	< 10 U
MW-42B	MW-42B-20040923	9/23/2004	400	19.8	< 10 U
MW-42B	MW-42B-20050405	4/5/2005	1310	32	< 10 U
MW-42B	MW-42B-20050927	9/27/2005	1470	27.3	< 10 U
MW-42B	MW-42B-20060315	3/15/2006	2270	37.2	< 10 U
MW-42B	MW-42B-20061010	10/10/2006	2000	35	2 J
MW-42B	MW-42B-20070417	4/17/2007	1600	36.8	< 10 U
MW-42B	MW-42B-20070918	9/18/2007	2100	39	4 J
MW-42B	MW-42B-20080429	4/29/2008	1600	33	3 J
MW-42B	MW-42B-20081209	12/9/2008	1100	30	< 5 U
MW-42B	MW-42B-20090425	4/25/2009	1500	35	< 5 U
MW-43	MW-43-20031114	11/14/2003	223	18.5	< 10 U
MW-43	MW-43-20040415	4/15/2004	510	12.1	< 10 U
MW-43	MW-43-20040923	9/23/2004	64.7	6.31	< 10 U
MW-43	MW-43-20050405	4/5/2005	304	11.9	< 10 U
MW-43	MW-43-20050927	9/27/2005	518	21.3	< 10 U
MW-43	MW-43-20060315	3/15/2006	1300	35	< 10 U
MW-43	MW-43-20061011	10/11/2006	920	30	< 10 U
MW-43	MW-43-20070417	4/17/2007	220	14.1	< 10 U
MW-43	MW-43-20070918	9/18/2007	350	13	< 10 U
MW-43	MW-43-20080428	4/28/2008	120	4 J	< 10 U
MW-43	MW-43-20081209	12/9/2008	150	5.3	< 5 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-43	MW-43-20090425	4/25/2009	120	< 5 U	< 5 U
MW-43	MW-43-20090507	5/7/2009	180	6	< 5 U
MW-43	MW-43-20090508	5/8/2009	180	6	< 5 U
MW-46R	MW-46R-20031114	11/14/2003	39.9	< 5 U	< 10 U
MW-46R	MW-46R-20040415	4/15/2004	77.1	27.2	< 10 U
MW-46R	MW-46R-20040923	9/23/2004	142	21.2	< 10 U
MW-46R	MW-46R-20050406	4/6/2005	210	28.4	< 10 U
MW-46R	MW-46R-20050928	9/28/2005	222	15.6	< 10 U
MW-46R	MW-46R-20060316	3/16/2006	111	6.37	< 10 U
MW-46R	MW-46R-20060406	4/6/2006	300	< 5 U	< 10 U
MW-46R	MW-46R-20061011	10/11/2006	450	8	< 10 U
MW-46R	MW-46R-20070417	4/17/2007	440	12.5	< 10 U
MW-46R	MW-46R-20070918	9/18/2007	420	9	< 10 U
MW-46R	MW-46R-20080429	4/29/2008	430	8	< 10 U
MW-46R	MW-46R-20081209	12/9/2008	310	19	< 5 U
MW-46R	MW-46R-20090425	4/25/2009	460	11	< 5 U
MW-46R	MW-46R-20090527	5/27/2009	< 5 U	< 5 U	< 5 U
MW-46R	MW-46R-20091027	10/27/2009	390	12	< 5 U
MW-46R	MW-46R-20091221-FS	12/21/2009	410	10	< 1.6 U
MW-46R	MW-46R-20100511	5/11/2010	610	13	< 5 U
MW-46R	MW-46R-20101105	11/5/2010	650	12	< 5 U
MW-46R	MW-46R-20110307-FS	3/7/2011	670	14	< 0.85 U
MW-46R	MW-46R-20110322	3/22/2011	680	11	< 5 U
MW-46R	MW-46R-20110523-FS	5/23/2011	610	13	NT
MW-46R	MW-46R-20111026	10/26/2011	460	10	< 5 U
MW-46R	MW-46R-20120418	4/18/2012	680	14	< 5 U
MW-46R	MW-46R-20121020	10/20/2012	410	7.9	0.44 J
MW-46R	MW-46R-20130423	4/23/2013	470	7.6	0.91 J
MW-46R	MW-46R-101813	10/18/2013	410	11	< 0.11 U
MW-46R	MW-46R-201403	3/7/2014	469	12.8	0.46 J
MW-46R	MW-46R-201405	5/14/2014	471	12.8	0.76 J
MW-46R	MW-46R-201407	7/29/2014	472	13.7	0.64 J
MW-46R	DUP-03-201410	10/16/2014	373	25.2	< 0.50 U
MW-46R	MW-46R-201410	10/16/2014	410	24.6	< 0.50 U
MW-46R	DUP-03-201501	1/13/2015	428	12.0	0.90 J
MW-46R	MW-46R-201501	1/13/2015	452	11.6	0.71 J
MW-46R	DUP-07-201504	4/14/2015	482	13.9	0.51 J
MW-46R	MW-46R-201504	4/14/2015	220 J	13.8	0.47 J
MW-46R	DUP-05-201507	7/21/2015	444	10.3	0.40 J
MW-46R	MW-46R-201507	7/21/2015	460	11.2	0.37 J
MW-46R	MW-46R-201510	10/7/2015	371	10.2	0.43 J
MW-46R	MW-46R-201601	1/12/2016	432	10.9	0.56 J
MW-50	MW-50-20040415	4/15/2004	6.51	< 5 U	< 10 U
MW-50	MW-50-20040923	9/23/2004	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20041210	12/10/2004	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20050406	4/6/2005	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20050928	9/28/2005	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20060317	3/17/2006	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20061012	10/12/2006	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20070419	4/19/2007	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20080429	4/29/2008	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20090424	4/24/2009	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20091027	10/27/2009	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20100511	5/11/2010	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20101105	11/5/2010	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20110323	3/23/2011	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20111025	10/25/2011	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-50	MW-50-101613	10/16/2013	1.6 J	< 0.56 U	< 0.11 U
MW-50	MW-50-201403	3/6/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-50	MW-50-201405	5/13/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-50	MW-50-201407	7/28/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-50	MW-50-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-50	MW-50-201501	1/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-50	MW-50-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-50R	MW-50R-201507	7/21/2015	0.22 J	< 0.080 U	< 0.13 U
MW-50R	MW-50R-201510	10/6/2015	0.35 J	< 0.080 U	< 0.13 U
MW-50R	MW-50R-201601	1/11/2016	0.42 J	< 0.080 U	< 0.13 U
MW-55	MW-55-20041209	12/9/2004	< 5 U	< 5 U	< 10 U
MW-55	MW-55-20050408	4/8/2005	< 5 U	< 5 U	< 10 U
MW-55	MW-55-20050928	9/28/2005	< 5 U	< 5 U	< 10 U
MW-55	MW-55-20060316	3/16/2006	< 5 U	< 5 U	< 10 U
MW-55	MW-55-20061013	10/13/2006	2 J	< 5 U	< 10 UJ
MW-55	MW-55-20070419	4/19/2007	2.6 J	< 5 U	< 10 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-55	MW-55-20070919	9/19/2007	5 J	< 5 U	< 10 U
MW-55	MW-55-20080429	4/29/2008	< 5 U	< 5 U	< 10 U
MW-55	MW-55-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-55	MW-55-20090424	4/24/2009	< 5 U	< 5 U	< 5 U
MW-55	MW-55-20091027	10/27/2009	3.6 J	< 5 U	< 5 U
MW-55	MW-55-20100512	5/12/2010	4.2 J	< 5 U	< 5 U
MW-55	MW-55-20101106	11/6/2010	14	< 5 U	< 5 U
MW-55	MW-55-20110323	3/23/2011	5.5	< 5 U	< 5 U
MW-55	MW-55-20111025	10/25/2011	7	< 5 U	< 5 U
MW-55	MW-55-20121020	10/20/2012	9.2	< 0.56 U	< 0.11 U
MW-55	MW-55-101613	10/16/2013	13	< 0.56 U	< 0.11 U
MW-55R	MW-55R-201507	7/20/2015	8.2	0.42 J	0.13 J
MW-55R	MW-55R-201510	10/6/2015	4.4	0.53 J	0.14 J
MW-55R	MW-55R-201601	1/12/2016	0.26 J	< 0.080 U	< 0.13 U
MW-56	MW-56-20041210	12/10/2004	90.2	< 5 U	< 10 U
MW-56	MW-56-20050408	4/8/2005	88.2	< 5 U	< 10 U
MW-56	MW-56-20050928	9/28/2005	207	< 5 U	< 10 U
MW-56	MW-56-20060316	3/16/2006	8.7	< 5 U	< 10 U
MW-56	MW-56-20061014	10/14/2006	110	2 J	< 10 UJ
MW-56	MW-56-20070419	4/19/2007	< 5 U	< 5 U	< 10 U
MW-56	MW-56-20070919	9/19/2007	38	< 5 U	< 10 U
MW-56	MW-56-20080429	4/29/2008	4 J	< 5 U	< 10 U
MW-56	MW-56-20081210	12/10/2008	93	< 5 U	< 5 U
MW-56	MW-56-20090424	4/24/2009	14	< 5 U	< 5 U
MW-56	MW-56-20091027	10/27/2009	8.7	< 5 U	< 5 U
MW-56	MW-56-20100512	5/12/2010	230	6.4	< 5 U
MW-56	MW-56-20110323	3/23/2011	71	2.6 J	< 5 U
MW-56	MW-56-20111025	10/25/2011	150	11	1.9 J
MW-56	MW-56-20121020	10/20/2012	470	11	< 0.11 U
MW-56	MW-56-101713	10/17/2013	590	17	< 0.11 U
MW-56	MW-56-201403	3/7/2014	618	15.3	0.15 J
MW-56	MW-56-201405	6/11/2014	307	17.6	0.16 J
MW-56	MW-56-201407	7/29/2014	516	19.3	< 0.50 U
MW-56	MW-56-201410	10/15/2014	408	12.1	< 0.50 U
MW-56	MW-56-201501	1/13/2015	326	10	< 0.50 U
MW-56	MW-56-201504	4/16/2015	495	8.2	< 0.13 U
MW-56R	MW-56R-201507	7/20/2015	156	8.0	0.31 J
MW-56R	MW-56R-201510	10/6/2015	278	18.1	0.42 J
MW-56R	MW-56R-201601	1/11/2016	408	19.2	0.32 J
MW-57	MW-57-20041210	12/10/2004	207	6.72	< 10 U
MW-57	MW-57-20050408	4/8/2005	282	6.83	< 10 U
MW-57	MW-57-20050928	9/28/2005	96	< 5 U	< 10 U
MW-57	MW-57-20060316	3/16/2006	254	7.56	< 10 U
MW-57	MW-57-20061013	10/13/2006	64	< 5 U	< 10 UJ
MW-57	MW-57-20070419	4/19/2007	201	3.77 J	< 10 U
MW-57	MW-57-20070920	9/20/2007	250	5 J	< 10 U
MW-57	MW-57-20080430	4/30/2008	14	< 5 U	< 10 U
MW-57	MW-57-20081210	12/10/2008	130	7.4	< 5 U
MW-57	MW-57-20090424	4/24/2009	96	4.2 J	< 5 U
MW-57	MW-57-20091027	10/27/2009	100	2.6 J	< 5 U
MW-57	MW-57-20100512	5/12/2010	210	6	< 5 U
MW-57	MW-57-20110323	3/23/2011	110	2.3 J	< 5 U
MW-57	MW-57-20111025	10/25/2011	59	2 J	< 5 U
MW-57	MW-57-20121020	10/20/2012	120	5.1	< 0.11 U
MW-57	MW-57-101713	10/17/2013	210	7.4	< 0.11 U
MW-57	MW-57-201403	3/7/2014	134	3.0 J	0.14 J
MW-57	MW-57-201405	6/11/2014	167	4.4 J	< 0.13 U
MW-57	MW-57-201407	7/29/2014	308	8.2	< 0.50 U
MW-57	MW-57-201410	10/15/2014	172	4.2 J	< 0.50 U
MW-57	MW-57-201501	1/13/2015	177	5.4	< 0.50 U
MW-57	MW-57-201504	4/16/2015	194	4.8	< 0.50 U
MW-57R	MW-57R-201507	7/20/2015	409	10.6	0.53 J
MW-57R	MW-57R-201510	10/6/2015	400	13.0	0.42 J
MW-57R	MW-57R-201601	1/11/2016	422	15.7	0.48 J
MW-58	MW-58-20041209	12/9/2004	526	14.5	< 10 U
MW-58	MW-58-20050407	4/7/2005	809	18.8	< 10 U
MW-58	MW-58-20050928	9/28/2005	486	10.9	< 10 U
MW-58	MW-58-20060316	3/16/2006	421	8.66	< 10 U
MW-58	MW-58-20061013	10/13/2006	620	14	< 10 UJ
MW-58	MW-58-20070419	4/19/2007	784	30.7	< 25 U
MW-58	MW-58-20070419-FD	4/19/2007	717	9.54 J	< 25 U
MW-58	MW-58-20070919	9/19/2007	650	17	< 10 U
MW-58	MW-58-20070919-FD	9/19/2007	640	16	< 10 U
MW-58	MW-58-20080430	4/30/2008	630	15	< 10 U
MW-58	MW-58-20080430-FD	4/30/2008	580	14	< 10 U
MW-58	MW-58-20081211	12/11/2008	530	12	< 5 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)	
MW-58	MW-58-20081211-FD	12/11/2008	510	13	< 5	U
MW-58	MW-58-20090425	4/25/2009	590	14	< 5	U
MW-58	MW-58-20090425-FD	4/25/2009	580	15	< 5	U
MW-58	MW-58-20091028	10/28/2009	480	11	< 5	U
MW-58	MW-58-20091028-FD	10/28/2009	480	11	< 5	U
MW-58	MW-58-20100512	5/12/2010	660	14	< 5	U
MW-58	MW-58-20101106-FD	11/6/2010	560	11	< 5	U
MW-58	MW-58-20101106	11/6/2010	580	12	< 5	U
MW-58	MW-58-20110324	3/24/2011	710	12	< 5	U
MW-58	MW-58-20110324-FD	3/24/2011	700	14	1.1	J
MW-58	MW-58-20121020	10/20/2012	440	18	0.84	J
MW-58	MW-58-101713	10/17/2013	410	13	1.5	J
MW-58	MW-58-20131017-FD	10/17/2013	420	12	1.1	J
MW-58	MW-58-201403	3/7/2014	293	22.3	0.93	J
MW-58	MW-58-201405	5/12/2014	397	12.1	0.72	J
MW-58	MW-58-201407	7/29/2014	399	12.7	0.76	J
MW-58	MW-58-201410	10/15/2014	360	10.8	0.68	J
MW-58	MW-58-201501	1/14/2015	385	14.7	0.71	J
MW-58	MW-58-201504	4/16/2015	356	19.7	1.5	
MW-58R	MW-58R-201507	7/21/2015	337	9.5	0.57	J
MW-58R	MW-58R-201510	10/8/2015	299	10.5	0.55	J
MW-58R	DUP-10-201601	1/12/2016	319	29.4	0.66	J
MW-58R	MW-58R-201601	1/12/2016	312	28.7	0.67	J
MW-60	MW-60-20050401	4/1/2005	< 5 U	< 5 U	< 10	U
MW-60	MW-60-20050930	9/30/2005	< 5 U	< 5 U	< 10	U
MW-60	MW-60-20060317	3/17/2006	< 5 U	< 5 U	< 10	U
MW-60	MW-60-20061012	10/12/2006	< 5 U	< 5 U	< 10	U
MW-60	MW-60-20070419	4/19/2007	< 5 U	< 5 U	< 10	U
MW-60	MW-60-20070919	9/19/2007	< 5 U	< 5 U	< 10	U
MW-60	MW-60-20080429	4/29/2008	< 5 U	< 5 U	< 10	U
MW-60	MW-60-20081210	12/10/2008	< 5 U	< 5 U	< 5	U
MW-60	MW-60-20090424	4/24/2009	< 5 U	< 5 U	< 5	U
MW-60	MW-60-20091027	10/27/2009	< 5 U	< 5 U	< 5	U
MW-60	MW-60-20100511	5/11/2010	< 5 U	< 5 U	< 5	U
MW-60	MW-60-20101104	11/4/2010	< 5 U	< 5 U	< 5	U
MW-60	MW-60-20110323	3/23/2011	< 5 U	< 5 U	< 5	U
MW-60	MW-60-20111025	10/25/2011	< 5 U	< 5 U	< 5	U
MW-60	MW-60-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11	U
MW-60	MW-60-101513	10/15/2013	< 1.6 U	< 0.56 U	< 0.11	U
MW-60	MW-60-201403	3/6/2014	< 0.17 U	< 0.080 U	< 0.13	U
MW-60	MW-60-201405	5/13/2014	0.21 J	< 0.080 U	< 0.13	U
MW-60	MW-60-201407	7/28/2014	1.0 J	< 0.50 U	< 0.50	U
MW-60	MW-60-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50	U
MW-60	MW-60-201501	1/13/2015	< 0.50 U	< 0.50 U	< 0.50	U
MW-60	MW-60-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50	U
MW-60R	MW-60R-201507	7/21/2015	< 0.17 U	< 0.080 U	< 0.13	U
MW-60R	MW-60R-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13	U
MW-60R	MW-60R-201601	1/11/2016	0.22 J	< 0.080 U	< 0.13	U
MW-61	MW-61-20050401	4/1/2005	< 5 U	< 5 U	< 10	U
MW-61	MW-61-20050401-FD	4/1/2005	< 5 U	< 5 U	< 10	U
MW-61	MW-61-20050930	9/30/2005	< 5 U	< 5 U	< 10	U
MW-61	MW-61-20060317	3/17/2006	< 5 U	< 5 U	< 10	U
MW-61	MW-61-20061012	10/12/2006	< 5 U	< 5 U	< 10	U
MW-61	MW-61-20070419	4/19/2007	< 5 U	< 5 U	< 10	U
MW-61	MW-61-20070919	9/19/2007	< 5 U	< 5 U	< 10	U
MW-61	MW-61-20080429	4/29/2008	< 5 U	< 5 U	< 10	U
MW-61	MW-61-20081210	12/10/2008	< 5 U	< 5 U	< 5	U
MW-61	MW-61-20090424	4/24/2009	4 J	< 5 U	< 5	U
MW-61	MW-61-20091027	10/27/2009	< 5 U	< 5 U	< 5	U
MW-61	MW-61-20100511	5/11/2010	< 5 U	< 5 U	< 5	U
MW-61	MW-61-20101104	11/4/2010	< 5 U	< 5 U	< 5	U
MW-61	MW-61-20110323	3/23/2011	1.8 J	< 5 U	< 5	U
MW-61	MW-61-20111025	10/25/2011	< 5 U	< 5 U	< 5	U
MW-61	MW-61-20121017	10/17/2012	2.4 J	< 0.56 U	< 0.11	U
MW-61	MW-61-101613	10/16/2013	4.0 J	< 0.56 U	< 0.11	U
MW-61	MW-61-201403	3/6/2014	4.7 J	< 0.080 U	< 0.13	U
MW-61	MW-61-201405	5/13/2014	6.6	< 0.080 U	< 0.13	U
MW-61	MW-61-201407	7/28/2014	8.1	< 0.50 U	< 0.50	U
MW-61	MW-61-201410	10/14/2014	7.9	< 0.50 U	< 0.50	U
MW-61	MW-61-201501	1/13/2015	10.2	< 0.50 U	< 0.50	U
MW-61	MW-61-201504	4/14/2015	10.9	< 0.50 U	< 0.50	U
MW-61R	MW-61R-201507	7/21/2015	14.7	< 0.080 U	< 0.13	U
MW-61R	MW-61R-GW-091815	9/18/2015	16.5	< 0.080 U	< 0.13	U
MW-61R	DUP-02-201510	10/8/2015	13.3	< 0.080 U	< 0.13	U
MW-61R	MW-61R-201510	10/8/2015	11.7	< 0.080 U	< 0.13	U
MW-61R	MW-61R-201511	11/4/2015	9.2	1.1	< 0.13	U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-61R	MW-61R-201601	1/8/2016	3.9	4.6	< 0.13 U
MW-62	MW-62-20050401	4/1/2005	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20050930	9/30/2005	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20060316	3/16/2006	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20061012	10/12/2006	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20070419	4/19/2007	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20070919	9/19/2007	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20080429	4/29/2008	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-62	MW-62-20090424	4/24/2009	< 5 U	< 5 U	< 5 U
MW-62	MW-62-20091027	10/27/2009	< 5 U	< 5 U	< 5 U
MW-62	MW-62-20100511	5/11/2010	< 5 U	< 5 U	< 5 U
MW-62	MW-62-20110323	3/23/2011	< 5 U	< 5 U	< 5 U
MW-62	MW-62-20111025	10/25/2011	1.9 J	< 5 U	< 5 U
MW-62	MW-62-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-62	MW-62-101713	10/17/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-62	MW-62-201403	3/7/2014	0.18 J	< 0.080 U	< 0.13 U
MW-62	MW-62-201405	5/14/2014	0.62 J	< 0.080 U	< 0.13 U
MW-62	MW-62-201407	7/29/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-62	MW-62-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-62	MW-62-201501	1/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-62	MW-62-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-62R	MW-62R-201507	7/21/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-62R	MW-62R-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-62R	MW-62R-201601	1/11/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-63	MW-63-20050401	4/1/2005	8.14	< 5 U	< 10 U
MW-63	MW-63-20050930	9/30/2005	< 5 U	< 5 U	< 10 U
MW-63	MW-63-20060316	3/16/2006	9.76	< 5 U	< 10 U
MW-63	MW-63-20060406	4/6/2006	11.6	< 5 U	< 10 U
MW-63	MW-63-20061012	10/12/2006	4 J	< 5 U	< 10 U
MW-63	MW-63-20070419	4/19/2007	4.08 J	< 5 U	< 10 U
MW-63	MW-63-20070919	9/19/2007	8	< 5 U	< 10 U
MW-63	MW-63-20080430	4/30/2008	3 J	< 5 U	< 10 U
MW-63	MW-63-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-63	MW-63-20090424	4/24/2009	4.3 J	< 5 U	< 5 U
MW-63	MW-63-20091027	10/27/2009	7.7	< 5 U	< 5 U
MW-63	MW-63-20100511	5/11/2010	7.6	< 5 U	< 5 U
MW-63	MW-63-20101106	11/6/2010	11	< 5 U	< 5 U
MW-63	MW-63-20110323	3/23/2011	12	< 5 U	< 5 U
MW-63	MW-63-20111025	10/25/2011	9.8	< 5 U	< 5 U
MW-63	MW-63-20121019	10/19/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-63	MW-63-101713	10/17/2013	7.5	< 0.56 U	< 0.11 U
MW-63	MW-63-201403	3/7/2014	9.4	1.3 J	< 0.13 U
MW-63	MW-63-201405	5/14/2014	12.2	0.61 J	0.13 J
MW-63	MW-63-201407	7/28/2014	8.3	0.99 J	< 0.50 U
MW-63	MW-63-201410	10/14/2014	9.4	0.98 J	< 0.50 U
MW-63	MW-63-201501	1/13/2015	8.2	1.0	< 0.50 U
MW-63	MW-63-201504	4/14/2015	9.2	0.99 J	< 0.50 U
MW-63R	MW-63R-201507	7/21/2015	5.6	0.70 J	< 0.13 U
MW-63R	MW-63R-201510	10/8/2015	3.9	0.70 J	< 0.13 U
MW-63R	MW-63R-201601	1/12/2016	3.2	0.39 J	< 0.13 U
MW-65	MW-65-20061011	10/11/2006	470	19	< 10 U
MW-65	MW-65-20061011-FD	10/11/2006	560	18	< 10 U
MW-65	MW-65-20070419	4/19/2007	1350	23.4	< 10 U
MW-65	MW-65-20070920	9/20/2007	580	17	< 10 U
MW-65	MW-65-20080430	4/30/2008	570	16	< 10 U
MW-65	MW-65-20081211	12/11/2008	460	11	< 5 U
MW-65	MW-65-20090424	4/24/2009	620	19	< 5 U
MW-65	MW-65-20101107	11/7/2010	400	11	< 5 U
MW-65	MW-65-20110304-FS	3/4/2011	370	13	< 0.85 U
MW-65	MW-65-20111025	10/25/2011	310	10	< 5 U
MW-65	MW-65-20121020	10/20/2012	280	8.9	< 0.11 U
MW-65	MW-65-101713	10/17/2013	220	8.6	< 0.11 U
MW-65	MW-65-201403	3/8/2014	199	6.6	< 0.13 U
MW-65	MW-65-201405	5/14/2014	195	6.9	< 0.13 U
MW-65	MW-65-201407	7/30/2014	17.1	< 0.50 U	< 0.50 U
MW-65	MW-65-201410	10/14/2014	30.8	0.54 J	< 0.50 U
MW-65	MW-65-201501	1/13/2015	19.2	< 0.50 U	< 0.50 U
MW-65	MW-65-201504	4/15/2015	16.0	< 0.50 U	< 0.50 U
MW-65	MW-65-201507	7/20/2015	26.3	0.38 J	< 0.13 U
MW-65	MW-65-201510	10/7/2015	0.28 J	< 0.080 U	< 0.13 U
MW-65	MW-65-201511	11/4/2015	7.7	< 0.080 U	< 0.13 U
MW-65	MW-65-201601	1/11/2016	14.5	0.32 J	< 0.13 U
MW-66	MW-66-20060406	4/6/2006	< 5 U	< 5 U	< 10 U
MW-66	MW-66-20061012	10/12/2006	2 J	< 5 U	< 10 U
MW-66	MW-66-20070418	4/18/2007	< 5 U	< 5 U	< 10 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-66	MW-66-20070919	9/19/2007	4 J	< 5 U	< 10 U
MW-66	MW-66-20080429	4/29/2008	< 5 U	< 5 U	< 10 U
MW-66	MW-66-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-66	MW-66-20090425	4/25/2009	< 5 U	< 5 U	< 5 U
MW-66	MW-66-20091028	10/28/2009	< 5 U	< 5 U	< 5 U
MW-66	MW-66-20100511	5/11/2010	< 5 U	< 5 U	< 5 U
MW-66	MW-66-20101103	11/3/2010	< 5 U	< 5 U	< 5 U
MW-66	MW-66-20110324	3/24/2011	1.6 J	< 5 U	< 5 U
MW-66	MW-66-20111026	10/26/2011	1.8 J	< 5 U	< 5 U
MW-66	MW-66-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-66	MW-66-101713	10/17/2013	2.1 J	< 0.56 U	< 0.11 U
MW-66	MW-66-201403	3/7/2014	3.5 J	< 0.080 U	< 0.13 U
MW-66	MW-66-201405	5/13/2014	3.1 J	< 0.080 U	< 0.13 U
MW-66	MW-66-201407	7/28/2014	2.6 J	< 0.50 U	< 0.50 U
MW-66	MW-66-201410	10/13/2014	2.3 J	< 0.50 U	< 0.50 U
MW-66	MW-66-201501	1/14/2015	2.4	< 0.50 U	< 0.50 U
MW-66	MW-66-201504	4/15/2015	2.6	< 0.50 U	< 0.50 U
MW-66	MW-66-201507	7/20/2015	3.3	0.22 J	< 0.13 U
MW-66	MW-66-201510	10/6/2015	2.3	0.18 J	< 0.13 U
MW-66	MW-66-201601	1/11/2016	0.53 J	< 0.080 U	< 0.13 U
MW-67	MW-67-20060406	4/6/2006	< 5 U	< 5 U	< 10 U
MW-67	MW-67-20061012	10/12/2006	1 J	< 5 U	< 10 U
MW-67	MW-67-20070419	4/19/2007	< 5 U	< 5 U	< 10 U
MW-67	MW-67-20070918	9/18/2007	< 5 U	< 5 U	< 10 U
MW-67	MW-67-20080429	4/29/2008	< 5 U	< 5 U	< 10 U
MW-67	MW-67-20081210	12/10/2008	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20090425	4/25/2009	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20091028	10/28/2009	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20100511	5/11/2010	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20101103	11/3/2010	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20110324	3/24/2011	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20111026	10/26/2011	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-67	MW-67-101713	10/17/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-67	MW-67-201403	3/7/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-67	MW-67-201405	5/13/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-67	MW-67-201407	7/28/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-67	MW-67-201410	10/13/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-67	MW-67-201501	1/12/2015	1.3	< 0.50 U	< 0.50 U
MW-67	MW-67-201504	4/15/2015	0.77 J	< 0.50 U	< 0.50 U
MW-67R	MW-67R-201507	7/20/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-67R	MW-67R-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-67R	MW-67R-201601	1/11/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-68	MW-68-20090115	1/15/2009	< 5 U	< 5 U	< 5 U
MW-68	MW-68-20090424	4/24/2009	< 5 U	< 5 U	< 5 U
MW-68	MW-68-20091028	10/28/2009	< 5 U	< 5 U	< 5 U
MW-68	MW-68-20100513	5/13/2010	< 5 U	< 5 U	< 5 U
MW-68	MW-68-20101106	11/6/2010	9.5	< 5 U	< 5 U
MW-68	MW-68-20111026	10/26/2011	< 5 U	< 5 U	< 5 U
MW-68	MW-68-20121017	10/17/2012	< 1.6 U	< 0.56 U	< 0.11 U
MW-68	MW-68-101613	10/16/2013	< 1.6 U	< 0.56 U	< 0.11 U
MW-68	MW-68-201403	3/6/2014	< 0.17 U	< 0.080 U	< 0.13 U
MW-68	MW-68-201405	5/14/2014	0.49 J	< 0.080 U	< 0.13 U
MW-68	MW-68-201407	7/29/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-68	MW-68-201410	10/14/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-68	MW-68-201501	1/12/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-68	MW-68-201504	4/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-68	MW-68-201507	7/20/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-68	MW-68-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-68	MW-68-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-70	MW-70-20101104	11/4/2010	540	14	< 5 U
MW-70	MW-70-20110322	3/22/2011	170	9.2	1.2 J
MW-70	MW-70-20111026	10/26/2011	320	7.7	< 5 U
MW-70	MW-70-20120418	4/18/2012	330	11	< 5 U
MW-70	MW-70-20121018	10/18/2012	200	11	< 0.11 U
MW-70	MW-70-20130423	4/23/2013	180	3.6 J	0.32 J
MW-70	MW-70-101613	10/16/2013	270	7.2	0.30 J
MW-71	MW-71-20091028	10/28/2009	190	6.3	< 5 U
MW-71	MW-71-20100513	5/13/2010	160	7.4	< 5 U
MW-71	MW-71-20101104	11/4/2010	250	7.2	< 5 U
MW-71	MW-71-20110322	3/22/2011	76	1.6 J	< 5 U
MW-71	MW-71-20111026	10/26/2011	130	2.7 J	< 5 U
MW-71	MW-71-20120418	4/18/2012	160	5.3	< 5 U
MW-71	MW-71-20121020	10/20/2012	210	7.3	< 0.11 U
MW-71	MW-71-20130423	4/23/2013	220	4.8 J	0.23 J
MW-71	MW-71-101613	10/16/2013	160	6.1	0.57 J

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-71	MW-71-201403	3/7/2014	166	5.8	0.19 J
MW-71	MW-71-201405	5/13/2014	164	5.3	0.33 J
MW-71	MW-71-201407	7/29/2014	181	6.4	< 0.50 U
MW-71	MW-71-201410	10/14/2014	185	6.0	< 0.50 U
MW-71	MW-71-201501	1/14/2015	170	6.0	< 0.50 U
MW-71	MW-71-201504	4/14/2015	156	5.7	< 0.50 U
MW-71	MW-71-201507	7/20/2015	165	5.3	0.48 J
MW-71	MW-71-201510	10/6/2015	179	6.5	0.43 J
MW-71	MW-71-201601	1/11/2016	171	6.1	0.40 J
MW-81	MW-81-201405	5/29/2014	512	14.3	0.21 J
MW-81	20140708-GW-MW-81	7/9/2014	518	11.4	< 0.50 U
MW-81	MW-81-201409	9/11/2014	463	13.5	< 0.50 U
MW-81	MW-81-201501	1/13/2015	385	9.9	< 0.50 U
MW-81	MW-81-201504	4/15/2015	198	4.2	< 0.50 U
MW-81	MW-81-201507	7/22/2015	275	7.7	< 0.13 U
MW-81	MW-81-201510	10/8/2015	160	3.8	< 0.13 U
MW-81	MW-81-201511	11/5/2015	233	6.5	< 0.13 U
MW-81	MW-81-201601	1/11/2016	157	3.9	< 0.13 U
MW-82	MW-82-201405	5/28/2014	285	4.8 J	0.14 J
MW-82	20140708-GW-MW-82	7/9/2014	48.2	1.2 J	< 0.50 U
MW-82	MW-82-201409	9/11/2014	50.0	1.1 J	< 0.50 U
MW-82	MW-82-201501	1/13/2015	66.0	1.2	< 0.50 U
MW-82	MW-82-201504	4/15/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-82	MW-82-201507	7/22/2015	5.3	< 0.080 U	< 0.13 U
MW-82	MW-82-201510	10/6/2015	4.2	< 0.080 U	< 0.13 U
MW-82	MW-82-201601	1/11/2016	5.6	0.18 J	< 0.13 U
MW-83	MW-83-20140523	5/23/2014	470	8.3	< 0.13 U
MW-83	MW-83-201409	9/12/2014	213	4.9 J	< 0.50 U
MW-83	MW-83-20141023	10/23/2014	210	5.2	< 0.50 U
MW-83	MW-83-201501	1/15/2015	101	1.8	< 0.50 U
MW-83	MW-83-201504	4/16/2015	151	2.8	< 0.50 U
MW-83	MW-83-201507	7/22/2015	27.9	0.49 J	< 0.13 U
MW-83	MW-83-201510	10/8/2015	9.8	0.25 J	< 0.13 U
MW-83	MW-83-201511	11/5/2015	3.2	< 0.080 U	< 0.13 U
MW-83	MW-83-201601	1/7/2016	1.1	< 0.080 U	< 0.13 U
MW-84	MW-84-201405	5/27/2014	214	4.6 J	0.16 J
MW-84	MW-84-201409A	9/12/2014	0.93 J	< 0.50 U	< 0.50 U
MW-84	MW-84-20141023	10/23/2014	0.68 J	< 0.50 U	< 0.50 U
MW-84	MW-84-201501	1/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-84	MW-84-201504	4/16/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-84	MW-84-201507	7/23/2015	0.29 J	< 0.080 U	< 0.13 U
MW-84	MW-84-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-84	MW-84-201601	1/7/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-85	MW-85-201405	5/29/2014	1970	99.4	23.1
MW-85	20140708-GW-MW-85	7/8/2014	3780	133	3.9
MW-85	MW-85-201409	9/11/2014	5820	226 J	35.3
MW-85	MW-85-20141205	12/5/2014	27700	280	7.7
MW-85	MW-85-201501	1/15/2015	5940	167	1.1
MW-85	MW-85-201504	4/16/2015	256	16.8	< 0.50 U
MW-85	MW-85-201507	7/23/2015	132	6.3	< 0.13 U
MW-85	MW-85-201510	10/8/2015	12000	52.6	1.8
MW-85	MW-85-201601	1/13/2016	6980	32.8	0.70 J
MW-86	MW-86-201405	5/29/2014	533000	1220 J	341 J
MW-86	MW-86-201409	9/11/2014	129000	91.6	4.1
MW-86	MW-86-20141205	12/5/2014	169000	290 E	24.7
MW-86	MW-86-201501	1/15/2015	81200	128	4.5
MW-86	MW-86-201504	4/16/2015	46700	128	5.8
MW-86	MW-86-201507	7/23/2015	65100	292 J	46.7
MW-86	MW-86-201510	10/8/2015	131000	1020	127
MW-86	MW-86-201601	1/13/2016	95500	610 J	57.1
MW-87	20140625-GW-MW-87	6/25/2014	564	41.8	< 0.50 U
MW-87	MW-87-201410	10/16/2014	594	47.8	< 0.50 U
MW-87	MW-87-201501	1/14/2015	661	51.3	< 0.50 U
MW-87	MW-87-201504	4/16/2015	758	58.6	0.33 J
MW-87	MW-87-201507	7/23/2015	758	56.5	0.34 J
MW-87	MW-87-201510	10/7/2015	708	54.5	0.31 J
MW-87	DUP-09-201601	1/13/2016	781	63.2	0.40 J
MW-87	MW-87-201601	1/13/2016	757	61.9	0.47 J
MW-88	20140624-GW-MW-88	6/24/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-88	MW-88-201410	10/16/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-88	MW-88-201501	1/13/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-88	MW-88-201504	4/16/2015	0.58 J	< 0.50 U	< 0.50
MW-88	MW-88-201507	7/23/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-88	MW-88-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-88	MW-88-201601	1/12/2016	0.58 J	< 0.080 U	< 0.13 U
MW-89	20140624-GW-MW-89	6/24/2014	19.5	< 0.50 U	< 0.50 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-89	MW-89-201410	10/15/2014	11.3	< 0.50 U	< 0.50 U
MW-89	MW-89-201501	1/13/2015	11.4	< 0.50 U	< 0.50 U
MW-89	MW-89-201504	4/16/2015	15.9	< 0.50 U	< 0.50
MW-89	MW-89-201507	7/23/2015	14.5	0.18 J	< 0.13 U
MW-89	MW-89-201510	10/7/2015	12.7	0.24 J	< 0.13 U
MW-89	MW-89-201601	1/12/2016	11.6	0.20 J	< 0.13 U
MW-90	20140625-GW-MW-90	6/25/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-90	MW-90-201410	10/16/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-90	MW-90-201501	1/12/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-90	MW-90-201504	4/15/2015	< 0.50 U	< 0.50 U	< 0.50
MW-90	MW-90-201507	7/22/2015	0.38 J	< 0.080 U	< 0.13 U
MW-90	MW-90-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-90	MW-90-201601	1/12/2016	0.25 J	< 0.080 U	< 0.13 U
MW-91	20140625-GW-MW-91	6/25/2014	234	21.7	< 0.50 U
MW-91	MW-91-201410	10/16/2014	319	28.8	< 0.50 U
MW-91	DUP-07-201501	1/13/2015	317	31.0	< 0.50 U
MW-91	MW-91-201501	1/13/2015	354	31.5	< 0.50 U
MW-91	MW-91-201504	4/16/2015	438	36.6	0.18 J
MW-91	MW-91-201507	7/23/2015	411	34.8	0.23 J
MW-91	DUP-08-201510	10/7/2015	442	35.7	0.19 J
MW-91	MW-91-201510	10/7/2015	405	35.2	0.17 J
MW-91	DUP-08-201601	1/13/2016	422	38.6	0.24 J
MW-91	MW-91-201601	1/13/2016	413	36.1	0.24 J
MW-92	MW-92-20141022	10/22/2014	2160	16.0	7.2
MW-92	MW-92-20141204	12/4/2014	2200	23.4	10.3
MW-92	MW-92-201501	1/15/2015	1410	10.4	4.6
MW-92	MW-92-201504	4/16/2015	736	5.4	2.1
MW-92	MW-92-201507	7/23/2015	617	6.7	1.0
MW-92	MW-92-201510	10/8/2015	1400	10.8	1.4
MW-92	MW-92-201601	1/13/2016	1840	7.1	0.66 J
MW-93	MW-93-20141022	10/22/2014	18200	145	5.0
MW-93	MW-93-20141204	12/4/2014	14600	85.7	2.5
MW-93	MW-93-201501	1/15/2015	18000	131	3.4
MW-93	MW-93-201504	4/16/2015	21500	160	3.9
MW-93	MW-93-201507	7/23/2015	20800	164	3.4
MW-93	MW-93-201510	10/8/2015	21100	120	3.3
MW-93	MW-93-201601	1/13/2016	21200	103	2.6
MW-94	MW-94-20141022	10/22/2014	11100	309 J	2.5
MW-94	MW-94-20141204	12/4/2014	9570	250 J	3.0
MW-94	MW-94-201501	1/15/2015	9530	297	2.4
MW-94	MW-94-201504	4/16/2015	11800	325	1.3
MW-94	MW-94-201507	7/23/2015	3890	119	0.61 J
MW-94	MW-94-201510	10/8/2015	1990	59.5	0.25 J
MW-94	MW-94-201601	1/13/2016	936	30.3	< 0.13 U
MW-95	MW-95-20141022	10/22/2014	22300	151	25.7
MW-95	MW-95-20141204	12/4/2014	20900	159	29.9
MW-95	MW-95-201501	1/15/2015	21100	177	25.6
MW-95	MW-95-201504	4/16/2015	26700	184	14.9
MW-95	MW-95-201507	7/23/2015	25200	181	17.1
MW-95	MW-95-201510	10/8/2015	26300	161	32.0
MW-95	MW-95-201601	1/13/2016	24700	161	31.0
MW-96	MW-96-20141022	10/22/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-96	MW-96-201501	1/15/2015	0.59 J	< 0.50 U	< 0.50 U
MW-96	DUP-06-201504	4/16/2015	< 0.50 U	< 0.50 U	< 0.50
MW-96	MW-96-201504	4/16/2015	< 0.50 U	< 0.50 U	< 0.50
MW-96	DUP-06-201507	7/23/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-96	MW-96-201507	7/23/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-96	MW-96-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-96	MW-96-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-97	MW-97-20141022	10/22/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-97	MW-97-201501	1/15/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-97	MW-97-201504	4/16/2015	< 0.50 U	< 0.50 U	< 0.50
MW-97	MW-97-201507	7/23/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-97	MW-97-201510	10/7/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-97	MW-97-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-98	MW-98-GW-2014 1029	10/29/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-98	MW-98-201501	1/15/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-98	MW-98-201504	4/16/2015	< 0.50 U	< 0.50 U	< 0.50
MW-98	MW-98-201507	7/23/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-98	MW-98-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-98	MW-98-201601	1/11/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-99	MW-99-20141022	10/22/2014	< 0.50 U	< 0.50 U	< 0.50 U
MW-99	MW-99-201501	1/15/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-99	MW-99-201504	4/16/2015	< 0.50 U	< 0.50 U	< 0.50
MW-99	MW-99-201507	7/23/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-99	MW-99-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U

TABLE 7
HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)
MW-99	MW-99-201601	1/11/2016	0.21 J	< 0.080 U	< 0.13 U
MW-172	MW-172-20141022	10/22/2014	3010	21.4	2.4
MW-172	MW-172-20141205	12/5/2014	1810	15.6	1.3 J
MW-172	MW-172-201501	1/15/2015	3600	22.4	1.2
MW-172	MW-172-201504	4/16/2015	1740	11.9	0.92 J
MW-172	MW-172-201507	7/23/2015	2140	12.4	0.69 J
MW-172	MW-172-201510	10/8/2015	2110	12.4	0.51 J
MW-172	MW-172-201601	1/13/2016	3190	13.5	< 0.13 U
MW-173	MW-173-201504	4/15/2015	< 0.50 U	< 0.50 U	< 0.50
MW-173	MW-173-201507	7/22/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-173	MW-173-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-173	MW-173-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-174	MW-174-GW-20150120	1/20/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-174	MW-174-201504	4/14/2015	0.68 J	< 0.50 U	< 0.50
MW-174	MW-174-201507	7/21/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-174	MW-174-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-174	MW-174-201601	1/12/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-175	MW-175-GW-20150120	1/20/2015	123	2.0	< 0.50 U
MW-175	MW-175-201504	4/15/2015	98.8	1.5	< 0.50
MW-175	MW-175-201507	7/21/2015	20.3	0.32 J	< 0.13 U
MW-175	MW-175-201510	10/7/2015	78.6	1.6	0.19 J
MW-175	MW-175-201601	1/11/2016	52.6	1.1	< 0.13 U
MW-176	MW-176-GW-20150120	1/20/2015	720	16.8	0.57 J
MW-176	MW-176-201504	4/14/2015	528	16.7	0.69 J
MW-176	MW-176-201507	7/21/2015	575	21.5	0.79 J
MW-176	MW-176-201510	10/6/2015	420	111	1.2
MW-176	MW-176-201601	1/12/2016	306	125	1.3
MW-177	MW-177-GW-20150121	1/21/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-177	MW-177-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-177	MW-177-201510	10/6/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-177	MW-177-201601	1/11/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-178	MW-178-GW-20150118	1/18/2015	5.2	0.99 J	< 0.50 U
MW-178	MW-178-201504	4/16/2015	5.0	1.3	< 0.50 U
MW-178	MW-178-201507	7/22/2015	4.6	1.1	< 0.13 U
MW-178	MW-178-201510	10/7/2015	5.8	1.4	< 0.13 U
MW-179	MW-179-201504	4/16/2015	41.2	1.6	< 0.50
MW-179	MW-179-201507	7/22/2015	27.3	1.1	< 0.13 U
MW-179	MW-179-201601	1/13/2016	30.6	1.1	< 0.13 U
MW-180	MW-180-GW-20150119	1/19/2015	23.7	3.4	< 0.50 U
MW-180	MW-180-201504	4/16/2015	21.4	3.8	< 0.50
MW-180	MW-180-201507	7/22/2015	22.1	3.0	< 0.13 U
MW-180	MW-180-201510	10/7/2015	18.5	3.0	< 0.13 U
MW-180	MW-180-201601	1/14/2016	10.6	1.5	< 0.13 U
MW-181	MW-181-GW-20150121	1/21/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-181	MW-181-201504	4/14/2015	< 0.50 U	< 0.50 U	< 0.50 U
MW-181	MW-181-201507	7/21/2015	< 0.17 U	< 0.080 U	< 0.13 U
MW-181	MW-181-201601	1/11/2016	< 0.17 U	< 0.080 U	< 0.13 U
MW-182	MW-182-201507	7/23/2015	193	17.8	0.28 J
MW-182	MW-182-201510	10/5/2015	196	17.2	0.25 J
MW-182	MW-182-201601	1/13/2016	258	19.9	0.30 J
RW-69	RW-69-20090115	1/15/2009	170	7.1	< 5 U
RW-69	RW-69-20090424	4/24/2009	62	< 5 U	< 5 U
RW-69	RW-69-20090527	5/27/2009	290	10	< 5 U
RW-69	RW-69-20091221-FS	12/21/2009	200	6.3	< 1.6 U
RW-69	RW-69-20100513	5/13/2010	170	8.2	< 5 U
RW-69	RW-69-20101104	11/4/2010	320	9	< 5 U
RW-69	RW-69-20110303-FS	3/3/2011	200	7.1	< 0.85 U
RW-69	RW-69-20110523-FS	5/23/2011	130	3.0 J	NT
RW-69	RW-69-20111026	10/26/2011	210	5.7	< 5 U
RW-69	RW-69-20120418	4/18/2012	150	3.6 J	< 5 U
RW-69	RW-69-20121018	10/18/2012	180	5.0	< 0.11 U
RW-69	RW-69-20130423	4/23/2013	190	2.8 J	< 0.11 U
RW-69	RW-69-101613	10/16/2013	190	7.7	< 0.11 U
RW-69	RW-69-201403	3/7/2014	105	3.5 J	0.41 J
RW-69	RW-69-201405	5/13/2014	110	3.3 J	0.30 J
RW-69	RW-69-201407	7/29/2014	164	5.6	0.50 J
RW-69	RW-69-201410	10/14/2014	173	6.9	< 0.50 U
RW-69	RW-69-201501	1/14/2015	115	4.7	< 0.50 U
RW-69	RW-69-201504	4/14/2015	113	4.5	< 0.50 U
RW-69	RW-69-201507	7/21/2015	135	5.5	0.31 J
RW-69	RW-69-201510	10/6/2015	184	6.7	0.24 J
RW-69	RW-69-201601	1/12/2016	128	4.6	< 0.13 U

Notes:
µg/L: Micrograms per liter
E,J: Estimated concentration

TABLE 7

HISTORICAL SUMMARY OF GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS

Whirlpool Facility - Fort Smith, Arkansas

Well ID	Sample Name	Date	Trichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)

F:

ND: Result is not detected at the associated method quantitation limit

NT: Analyte not tested

U: Not detected (MDL included where available, RDL included for older analyses)

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

TABLE 8
SUMMARY OF STATISTICAL TEMPORAL TREND ANALYSIS (2009 through 1st Quarter 2016)
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Start Date	End Date	Number of Samples	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
Northern Plume Wells						
MW-23	4/27/2009	1/7/2016	19	Stable	Increasing	ND
MW-24	4/27/2009	1/7/2016	17	Decreasing	Decreasing	<PQL
MW-27	5/12/2010	1/12/2016	16	No Trend	<PQL	ND
MW-28	10/29/2009	1/12/2016	18	Decreasing	ND	ND
MW-31	4/25/2009	1/12/2016	16	No Trend	ND	ND
MW-32	4/25/2009	1/12/2016	17	Decreasing	<PQL	ND
MW-33	4/25/2009	1/8/2016	19	Decreasing	Decreasing	<PQL
MW-34	4/24/2009	1/11/2016	18	Decreasing	<PQL	ND
MW-35R	4/24/2009	1/11/2016	19	Decreasing	Decreasing	ND
MW-36	4/24/2009	1/11/2016	20	No Trend	ND	ND
MW-39	4/24/2009	1/12/2016	17	No Trend	ND	ND
MW-40	4/24/2009	1/12/2016	20	<PQL	<PQL	ND
MW-41	4/24/2009	1/12/2016	21	Stable	Stable	<PQL
MW-46R	4/25/2009	1/12/2016	23	Stable	Stable	<PQL
MW-50	4/24/2009	1/11/2016	17	<PQL	ND	ND
MW-55	4/24/2009	1/12/2016	11	Stable	<PQL	<PQL
MW-56	4/24/2009	1/11/2016	16	Increasing	Increasing	<PQL
MW-57	4/24/2009	1/11/2016	16	Increasing	Increasing	<PQL
MW-58	4/25/2009	1/12/2016	18	Decreasing	Stable	Stable
MW-60	4/24/2009	1/11/2016	17	<PQL	ND	ND
MW-61	4/24/2009	1/8/2016	17	Increasing	Increasing	ND
MW-62	4/24/2009	1/11/2016	16	<PQL	ND	ND
MW-63	4/24/2009	1/12/2016	17	Stable	Increasing	<PQL
MW-65	4/24/2009	1/11/2016	15	Decreasing	Decreasing	ND
MW-66	4/25/2009	1/11/2016	17	Increasing	<PQL	ND
MW-67	4/25/2009	1/11/2016	17	No Trend	ND	ND
MW-68	1/15/2009	1/12/2016	17	No Trend	ND	ND
RW-69	1/15/2009	1/12/2016	22	Decreasing	Stable	<PQL
MW-70	11/4/2010	10/16/2013	7	Stable	Decreasing	<PQL
MW-71	10/28/2009	1/11/2016	18	Stable	Stable	<PQL
IW-72	1/16/2009	1/12/2016	19	No Trend	ND	ND
IW-73	4/23/2009	1/12/2016	16	Decreasing	No Trend	No Trend
IW-74	4/23/2009	1/12/2016	16	Stable	Stable	Increasing
IW-75	1/16/2009	10/15/2013	5	No Trend	<PQL	ND
IW-76	4/23/2009	1/12/2016	18	Decreasing	Decreasing	No Trend
IW-77	4/23/2009	1/11/2016	25	Stable	Decreasing	<PQL
IW-78	10/25/2011	1/11/2016	8	Decreasing	Decreasing	ND
IW-79	10/25/2011	1/11/2016	8	Decreasing	Decreasing	<PQL
IW-80	4/23/2009	1/7/2016	17	Decreasing	<PQL	ND
MW-81	5/29/2014	1/11/2016	8	Decreasing	Decreasing	<PQL
MW-82	5/28/2014	1/11/2016	8	Decreasing	Decreasing	<PQL
MW-83	5/23/2014	1/7/2016	8	Decreasing	Decreasing	ND
MW-84	5/27/2014	1/7/2016	8	Decreasing	Decreasing	<PQL
Southern Plume Wells (includes Source Area Wells as indicated by bold font well ID)						
ITMW-1	10/27/2011	1/13/2016	14	Stable	Stable	ND
ITMW-2	11/3/2010	1/12/2016	16	<PQL	<PQL	ND
ITMW-3	11/4/2010	10/15/2013	6	Decreasing	<PQL	ND
ITMW-4	10/25/2011	1/12/2016	12	Decreasing	Stable	No Trend
ITMW-5	4/27/2009	10/16/2013	10	Stable	Decreasing	<PQL
ITMW-6	10/28/2009	1/12/2016	16	Increasing	Increasing	<PQL
ITMW-7	4/27/2009	1/13/2016	18	Decreasing	Decreasing	No Trend
ITMW-9	4/27/2009	1/13/2016	18	Stable	Decreasing	No Trend
ITMW-10	4/27/2009	1/13/2016	16	Increasing	Decreasing	Decreasing
ITMW-11	4/27/2009	1/13/2016	16	Decreasing	Decreasing	Decreasing
ITMW-12	10/26/2011	1/13/2016	14	Decreasing	Decreasing	Decreasing
ITMW-13	4/27/2009	1/13/2016	19	Decreasing	Decreasing	<PQL
ITMW-14	11/4/2010	1/12/2016	15	Decreasing	Decreasing	ND
ITMW-15	4/27/2009	1/13/2016	15	Decreasing	Decreasing	Decreasing
ITMW-16	11/6/2010	1/13/2016	15	Decreasing	ND	ND
ITMW-17	4/27/2009	1/13/2016	19	Decreasing	Stable	Increasing
ITMW-18	4/27/2009	1/13/2016	19	Decreasing	Decreasing	<PQL
ITMW-19	4/27/2009	1/13/2016	19	Decreasing	Decreasing	<PQL
ITMW-20	10/29/2009	1/12/2016	17	No Trend	ND	<PQL
ITMW-21	10/27/2009	1/13/2016	17	Decreasing	<PQL	ND
MW-22	10/27/2009	1/12/2016	16	<PQL	ND	ND
MW-23	4/27/2009	1/7/2016	19	Stable	Increasing	ND
MW-24	4/27/2009	1/7/2016	17	Decreasing	Decreasing	<PQL
MW-25	4/27/2009	1/13/2016	20	Decreasing	Decreasing	Decreasing
MW-26	10/29/2009	1/13/2016	17	No Trend	ND	ND
MW-29	10/29/2009	1/13/2016	15	<PQL	ND	ND
MW-30	11/3/2010	10/14/2013	6	Stable	Stable	<PQL
MW-37	4/27/2009	10/17/2013	10	Decreasing	Decreasing	Stable
MW-38	10/26/2011	1/13/2016	13	Increasing	Increasing	Decreasing
MW-85	5/29/2014	1/13/2016	9	No Trend	Stable	Decreasing
MW-86	5/29/2014	1/13/2016	8	No Trend	Stable	No Trend
MW-92	10/22/2014	1/13/2016	7	Stable	Stable	Decreasing
MW-93	10/22/2014	1/13/2016	7	Increasing	Stable	Stable
MW-94	10/22/2014	1/13/2016	7	Decreasing	Decreasing	Decreasing
MW-95	10/22/2014	1/13/2016	7	Stable	Stable	Stable
MW-172	10/22/2014	1/13/2016	7	Stable	Stable	Decreasing
Northeast Corner Wells						
MW-87	6/25/2014	1/13/2016	7	Increasing	Increasing	<PQL
MW-88	6/24/2014	1/12/2016	7	<PQL	ND	ND
MW-89	6/24/2014	1/12/2016	7	Stable	<PQL	ND
MW-90	6/25/2014	1/12/2016	7	<PQL	ND	ND
MW-91	6/25/2014	1/13/2016	7	Increasing	Increasing	<PQL
MW-96	10/22/2014	1/12/2016	6	<PQL	ND	ND
MW-97	10/22/2014	1/12/2016	6	ND	ND	ND
MW-98	10/29/2014	1/11/2016	6	ND	ND	ND
MW-99	10/22/2014	1/11/2016	6	<PQL	ND	ND

Notes:
ND = Result is Not Detected at the associated method quantitation limit
<PQL = Analyte qualified as estimated because it was detected above method

TABLE 9
SUMMARY TEMPORAL TREND ANALYSIS BY WELL CATEGORY
Whirlpool Facility - Fort Smith, Arkansas

Chemical	Increasing	Decreasing	Stable	No Trend	Not Detected Above the Reporting Limit
Northern Plume Wells					
Trichloroethene	4	18	9	8	4
cis-1,2-Dichloroethene	5	13	6	1	18
Vinyl Chloride	1	0	1	2	39
Southern Plume Wells (includes Source Area Wells)					
Trichloroethene	4	17	8	4	2
cis-1,2-Dichloroethene	3	15	10	0	7
Vinyl Chloride	1	10	3	4	17
Northeast Corner Wells					
Trichloroethene	2	0	1	0	6
cis-1,2-Dichloroethene	2	0	0	0	7
Vinyl Chloride	0	0	0	0	9
Source Area Wells					
Trichloroethene	2	9	5	0	0
cis-1,2-Dichloroethene	1	8	7	0	0
Vinyl Chloride	1	9	4	0	2

TABLE 10

SUMMARY OF AVERAGE DETECTED CONCENTRATIONS (2009-2016)[(1)]

Whirlpool Facility - Fort Smith, Arkansas

Date	Trichloroethylene			cis-1,2-Dichloroethene			Vinyl Chloride		
	Concentration (µg/L)	Number of Detects	Number of Samples	Concentration (µg/L)	Number of Detects	Number of Samples	Concentration (µg/L)	Number of Detects	Number of Samples
All Wells									
4/24/2009	2,570	35	46	266	25	46	287	5	46
########	8,560	22	38	559	17	38	695	4	38
5/13/2010	5,600	29	43	433	23	43	494	5	43
11/4/2010	10,825	33	41	632	19	41	1,300	2	41
3/22/2011	4,889	26	34	555	17	34	281	9	34
########	4,918	46	65	394	36	65	604	6	65
4/18/2012	2,790	30	39	275	25	39	531	4	39
########	2,348	43	66	191	39	66	129	19	66
4/23/2013	1,561	26	38	89	23	38	16	16	38
########	1,895	46	65	177	39	65	189	17	66
3/7/2014	1,184	43	55	71	35	55	6	25	55
5/15/2014	1,159	46	55	62	31	55	7	23	55
7/30/2014	2,764	41	55	121	33	55	18	14	55
########	2,174	37	55	135	33	55	80	11	55
1/12/2015	437	39	55	81	30	55	16	9	55
4/16/2015	472	40	57	94	30	57	5.8	8	57
7/22/2015	1,187	45	57	63	37	57	10.3	19	57
10/6/2015	1,818	44	57	69	39	57	10.1	20	57
1/7/2016	1,252	46	57	63	39	57	12.1	18	57
North Wells									
4/24/2009	384	23	34	19	13	34		0	34
########	228	14	25	8	9	25		0	25
5/13/2010	255	17	28	11	10	28		0	28
11/4/2010	333	21	27	16	10	27		0	27
3/22/2011	144	15	23	6	8	23	1	2	23
########	262	25	38	10	17	38	2	1	38
4/18/2012	197	17	18	7	12	18		0	18
########	328	24	39	11	20	39	1	5	39
4/23/2013	228	13	17	8	10	17	0	5	17
########	268	26	38	13	20	38	2	5	38
3/7/2014	214	23	32	10	18	32	1	11	32
5/15/2014	209	25	31	10	15	31	0.5	10	31
7/29/2014	281	23	31	11	16	31	4.9	6	31
########	251	19	31	8	16	31	0.9	2	31
1/12/2015	186	21	31	7	15	31	1.8	3	31
4/16/2015	173	21	31	8	14	31	1.0	4	31
7/22/2015	139	22	31	5	18	31	0.7	8	31
10/6/2015	121	23	31	7	19	31	0.4	10	31
1/7/2016	119	25	31	8	19	31	0.4	7	31
South Wells									
4/24/2009	6,760	12	12	535	12	12	287	5	12
########	23,140	8	13	1,178	8	13	695	4	13
5/13/2010	13,173	12	15	757	13	15	494	5	15
11/4/2010	29,188	12	14	1,316	9	14	1,300	2	14
3/22/2011	11,360	11	11	944	10	11	361	7	11
########	10,461	21	27	739	19	27	724	5	27
4/18/2012	6,181	13	21	523	13	21	531	4	21
########	4,899	19	27	380	19	27	175	14	27
4/23/2013	2,893	13	21	151	13	21	22	11	21
########	4,010	20	27	350	19	27	291	11	27
3/7/2014	2,300	20	23	135	17	23	10	14	23
5/15/2014	2,404	20	23	111	16	23	12	13	23
7/30/2014	6,280	17	23	237	16	23	28	8	23
########	4,449	17	23	270	16	23	110	8	23
1/12/2015	770	17	23	155	15	23	23	6	23
4/16/2015	947	16	23	180	15	23	11	4	23
7/22/2015	2,507	20	23	132	17	23	17	11	23
10/6/2015	4,287	18	23	144	18	23	20	10	23
1/7/2016	3,023	18	23	129	18	23	22	10	23
Source Wells									
4/24/2009	11,600	6	6	883	7	7	358	4	7
########	73,900	2	2	3,087	3	3	1,385	2	3
5/13/2010	20,750	6	6	1,375	7	7	617	4	7
11/4/2010	98,133	3	3	2,940	4	4	1,300	2	4
3/22/2011	22,000	4	4	1,826	5	5	616	4	5
########	20,260	8	8	1,532	9	9	904	4	9
4/18/2012	12,625	4	4	1,314	5	5	707	3	5
########	10,905	8	8	752	9	9	271	9	9
4/23/2013	8,825	4	4	358	5	5	49	5	5
########	9,798	8	8	714	9	9	455	7	9
3/7/2014	5,696	8	8	268	8	8	18	8	8
5/15/2014	5,955	8	8	203	8	8	22	7	8
7/31/2014	13,281	8	8	456	8	8	37	6	8
########	9,401	8	8	524	8	8	146	6	8
1/12/2015	1,560	8	8	311	7	8	35	4	8
4/16/2015	2,090	7	8	243	14	15	20	2	8
7/22/2015	6,175	8	8	302	7	8	38	5	8
10/6/2015	9,573	8	8	309	8	8	24	8	8
1/7/2016	6,678	8	8	272	8	8	42	5	8
Northeast Corner Wells									
7/31/2014	273	3	5	32	2	5	0	0	5
########	308	3	9	38	2	9	0	0	9
1/12/2015	257	4	9	41	2	9	0	0	9
4/16/2015	303	4	9	48	2	9	0.3	2	9
7/22/2015	296	4	9	30	3	9	0.3	2	9
10/6/2015	392	3	9	31	3	9	0.2	2	9
1/7/2016	243	5	5	34	3	5	0.3	2	5

Notes:

µg/L: Micrograms per liter

[(1)]Excludes wells MW-81 through MW-99 & MW-172 through MW-193 (constructed after initial average concentration calculations)

TABLE 11
SUMMARY OF TCE CONCENTRATIONS (AREA 1)
September 2014 - Janaury 2016
Whirlpool Facility - Fort Smith, Arkansas

	Trichloroethylene (TCE) Concentrations (µg/L)												
Date(s)	**IW-127**	**IW-141**	**IW-147**	**IW-152**	**IW-153**	**IW-157**	**MW-25**	**MW-38**	**MW-85**	**MW-86**	**MW-92**	**MW-93**	
9/11/2014	1020	nm	nm	nm	nm	nm	nm	nm	5820	129000	nm	nm	
10/15/2014	nm	nm	nm	nm	nm	nm	nm	6750	nm	nm	nm	nm	
10/23/2014	nm	368000	199000	17600	293	74200	59800	nm	nm	nm	2160	18200	
12/4/2014	182	46300	91600	5	1.6	31700	2620	3190	27700	169000	2200	14600	
1/15/2015	nm	nm	nm	nm	nm	nm	2510	5440	5940	81200	1410	18000	
4/15-16/2015	nm	nm	nm	nm	nm	nm	4650	3060	256	46700	736	21500	
7/20/2015	nm	nm	nm	nm	nm	nm	39800	3420	132	65100	617	20800	
10/8/2015	nm	nm	nm	nm	nm	nm	68700	2740	12000	131000	1400	21100	
1/13/2016	nm	nm	nm	nm	nm	nm	43400	3680	6980	95500	1840	21200	
Percent Reduction	82%	87%	54%	100%	99%	57%	96%	53%	-376%	-31%	-2%	20%	**4th Quarter 2014**
	-	-	-	-	-	-	96%	19%	-2%	37%	35%	1%	**1st Quarter 2015**
	-	-	-	-	-	-	92%	55%	96%	64%	66%	-18%	**2nd Quarter 2015**
	-	-	-	-	-	-	33%	49%	98%	50%	71%	-14%	**3rd Quarter 2015**
	-	-	-	-	-	-	-15%	59%	-106%	-2%	35%	-16%	**4th Quarter 2015**
	-	-	-	-	-	-	27%	45%	-20%	26%	15%	-16%	**1st Quarter 2016**

Notes:
nd = Not detected
nm = Not measured
µg/L = Micrograms per liter
U = Not detected above noted method detection limit

TABLE 11
SUMMARY OF TCE CONCENTRATIONS (AREA 1)
September 2014 - Janaury 2016
Whirlpool Facility - Fort Smith, Arkansas

	Trichloroethylene (TCE) Concentrations (µg/L)										
Date(s)	**MW-94**	**MW-95**	**MW-172**	**ITMW-11**	**ITMW-12**	**ITMW-15**	**ITMW-17**	**ITMW-18**	**ITMW-19**	**Total TCE Reduction (all wells)**	
9/11/2014	nm	nm	nm	nm	nm	nm	nm	nm	nm	944213	
10/15/2014	nm	nm	nm	2050	2570	1490	3510	3540	12800		
10/23/2014	11100	22300	3010	nm	nm	nm	nm	nm	nm		
12/4/2014	9570	20900	1810	1530	468	63	4630	3690	33.5	431793	
1/15/2015	9530	21100	3600	68.3	57.1	56.5	3840	488	17.4	323046	
4/15-16/2015	11800	26700	1740	0.5 U	2260	101	3920	43.5	594	293849	
7/20/2015	3890	25200	2140	33.2	652	110	5350	22.9	15.2	337071	
10/7/2015-10/8/2015	1990	26300	2110	721	314	38.9	3970	12.9	87.1	442273	
1/13/2016	936	24700	3190	2100	465	797	2600	48.8	336	377557	
Percent Reduction	14%	6%	40%	25%	82%	96%	-32%	-4%	100%	54%	**4th Quarter 2014**
	14%	5%	-20%	97%	98%	96%	-9%	86%	100%	66%	**1st Quarter 2015**
	-6%	-20%	42%	100%	12%	93%	-12%	99%	95%	69%	**2nd Quarter 2015**
	65%	-13%	29%	98%	75%	93%	-52%	99%	100%	64%	**3rd Quarter 2015**
	82%	-18%	30%	65%	88%	97%	-13%	100%	99%	53%	**4th Quarter 2015**
	92%	-11%	-6%	-2%	82%	47%	26%	99%	97%	60%	**1st Quarter 2016**

Notes:
nd = Not detected
nm = Not measured
µg/L = Micrograms per liter
U = Not detected above noted method detection limit

TABLE 12
SUMMARY OF TCE CONCENTRATIONS (MW-25, MW-85 and MW-86)
May 2014 - January 2016
Whirlpool Facility - Fort Smith, Arkansas

	Trichloroethylene (TCE) Concentrations (µg/L)				
Date(s)	**MW-25**	**MW-85**	**MW-86**	**Total TCE Reduction (all wells)**	
5/15 & 29/2014	18500	1970	533000	553470	
7/8/2014	49900	3780	nm		
7/31/2014	71700	nm	nm		
9/11/2014	nm	5820	129000		
10/24/2014	59800	nm	nm		
12/5/2014	2620	27700	169000	199320	
1/15/2015	2510	5940	81200	89650	
4/16/2015	4650	256	46700	51606	
7/20/2015	39800	132	65100	105032	
10/8/2015	68700	12000	131000	211700	
1/13/2016	43400	6980	95500	145880	
Percent Reduction	86%	-1306%	68%	64%	**4th Quarter 2014**
	86%	-202%	85%	84%	**1st Quarter 2015**
	75%	87%	91%	91%	**2nd Quarter 2015**
	-115%	93%	88%	81%	**3rd Quarter 2015**
	-271%	-509%	75%	62%	**4th Quarter 2015**
	-135%	-254%	82%	74%	**1st Quarter 2016**

Notes:
nm = Not measured
µg/L = Micrograms per liter

TABLE 13
SUMMARY OF TCE CONCENTRATIONS (SUPPLEMENTAL NECK AREA)
May 2014 - January 2016
Whirlpool Facility - Fort Smith, Arkansas

	Trichloroethylene (TCE) Concentrations (µg/L)						
Date(s)	**IW-101**	**MW-23**	**MW-24**	**MW-83**	**MW-84**	**Total TCE Reduction (all wells)**	
5/22 & 23/2014	509	22.8	79.7	470	214	1296	
7/8/2014	150	27.8	102	nm	nm		
9/12/2014	139	62.1	55.7	213	0.93	572	
10/23/2014	nm	189	33.1	210	0.68		
1/14-15/2015	nm	115	26.9	101	0.5 U	382	
4/14-16/2015	nm	57.5	18.8	151	0.5 U	367	
7/20/2015	nm	37.8	178	27.9	0.29 J	383	
10/7-8/2015	nm	0.65 J	44.1	9.8	0.17 U	194	
12/1-2/2015	nm	0.17 J	84.1	1.3	nm	225	
1/7/2016	42.9	0.48 J	49.3	1.1	0.17 U	94	
Percent Reduction	73%	-729%	58%	55%	100%	56%	**4th Quarter 2014**
	-	-404%	66%	79%	100%	70%	**1st Quarter 2015**
	-	-152%	76%	68%	100%	72%	**2nd Quarter 2015**
	-	-66%	-123%	94%	100%	70%	**3rd Quarter 2015**
	-	99%	-6%	100%	100%	83%	**4th Quarter 2015**
	92%	98%	38%	100%	100%	93%	**1st Quarter 2016**

Notes:
nm = Not measured
µg/L = Micrograms per liter
U = Not detected above noted method detection limit

RAMBOLL ENVIRON

TABLE 14
SUMMARY OF TCE CONCENTRATIONS (AREAS 2 AND 3)
May 2014 - January 2016
Whirlpool Facility - Fort Smith, Arkansas

	Trichloroethylene (TCE) Concentrations (µg/L)												
Date(s)	**IW-115**	**MW-81**	**MW-82**	**IW-77**	**IW-78**	**IW-79**	**MW-34**	**MW-35R**	**MW-36**	**MW-65**	**IW-80**	**Total TCE Reduction (all wells)**	
5/13-14 & 5/28-30/2014	504	512	285	1460	255	426	19.9	183	0.5 U	195	24.2	3865	
7/29-30/2014	nm	nm	nm	1540	nm	nm	78.2	64.7	0.61	17.1	25.6	3708	
9/11 & 10/14-23/2014	355	463	50	554	39.6	105	47.7	79.2	0.5 U	30.8	11.8	1737	
1/12-14/2015	nm	385	66	201	nm	nm	22	10.9	0.5 U	19.2	7.1	1211	
4/14-15/2015	nm	198	0.5 U	153	nm	nm	13.8	39.5	0.5 U	16	9.2	930	
7/20/2015	nm	275	5.3	130	nm	nm	3.5	33.7	0.22 J	26.3	12.5	986	
10/6-8/2015	nm	160	4.2	24.3	nm	nm	4.5	15.4	0.17 U	0.28 J	10.6	719	
12/1-2/2015	nm	56.1	nm	87.8	nm	nm	nm	0.89 J	nm	6.6	9	669	
1/7/2016 & 1/11/2016	169	157	5.6	95.3	1.5	70	2.6	13.2	0.31 J	14.5	4.2	533	
Percent Reduction	30%	10%	82%	62%	84%	75%	-140%	57%	-	84%	51%	55%	**4th Quarter 2014**
	-	25%	77%	86%	-	-	-11%	94%	-	90%	71%	69%	**1st Quarter 2015**
	-	61%	100%	90%	-	-	31%	78%	-	92%	62%	76%	**2nd Quarter 2015**
	-	46%	98%	91%	-	-	82%	82%	-	87%	48%	74%	**3rd Quarter 2015**
	-	89%	99%	94%	-	-	77%	100%	-	97%	63%	83%	**4th Quarter 2015**
	66%	69%	98%	93%	99%	84%	87%	93%	-	93%	83%	86%	**1st Quarter 2016**

Notes:
nm = Not measured
µg/L = Micrograms per liter
U = Not detected above noted method detection limit

TABLE 15
SUMMARY OF WATER QUALITY PARAMETERS (MW-61R PILOT TEST)
Whirlpool Facility - Fort Smith, Arkansas

Well	Time - Time Stamp	TOC Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Temperature (°C)	Conductivity (µS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Fe(II) (mg/L)	Notes
MW-61R	9/18/2015 15:07	459.31	4.5	454.81	25.09	687	0.38	6.22	-147.3	ND	Pre-Injection Baseline
	9/30/2015 12:51	459.31	3.05	456.26							During Injection
	9/30/2015 14:25	459.31	7.72	451.59	24.06	531	1.37	6.29	79.1	2.4	
	9/30/2015 14:44	459.31	8.14	451.17	23.93	526	1.25	6.29	84.6	3.3	
	9/30/2015 15:46	459.31	8.80	450.51	23.80	530	1.31	6.23	78.8		
	9/30/2015 17:04	459.31	14.14	445.17	23.00	564	0.32	6.47	15.4		
	10/1/2015 10:46	459.31	2.96	456.35							
	10/1/2015 11:19	459.31	8.40	450.91	23.49	646	3.75	6.28	111.3	ND	
	10/1/2015 13:13	459.31	13.13	446.18	22.98	678	1.46	6.34	65.5	3.3	
	10/1/2015 14:00	459.31	14.84	444.47	22.71	680	1.06	6.35	58.4	3.3	
	10/1/2015 17:30	459.31			23.64	658	5.00	6.45	94.8		
	10/2/2015 8:44	459.31	1.85	457.46							
	10/2/2015 9:18	459.31			23.33	720	2.99	6.28	-33.8		
	10/2/2015 13:44	459.31			23.33	1189	3.08	6.29	-50	3.3	
	10/2/2015 15:26	459.31			23.91	1090	2.74	6.24	-57.2	3.3	
	10/8/2015 9:40	459.31	3.08	456.23							6 days post injection
	10/8/2015 10:25	459.31	6.65	452.66	24.55	4238	1.30	5.52	-13.1	>3.3	
	10/22/2015 9:35	459.31	7.15	452.16	23.96	2190	0.00	6.20	-152	3.0	20 days post injection
	11/4/2015 14:31	459.31	5.45	453.86	23.77	1790	0.07	6.50	-105.6	3.3	30 days post injection
	12/1/2015 15:55	459.31	6.49	452.82	19.70	1802	0.08	6.85	-148.7	2.8	60 days post injection
	1/8/2016 8:30	459.31	7.10	452.21	16.18	1207	0.21	6.82	-117.3	>3.0	90 days post injection
TMW-10	9/18/2015 13:40	460.75	4.2	456.55	23.96	932	0.78	6.31	-183.9	ND	Pre-Injection Baseline
	9/30/2015 11:34	460.75	3.34	457.41							During Injection
	9/30/2015 17:57	460.75	4.95	455.80	21.1	753	1.79	6.47	167.1		
	10/1/2015 18:03	460.75			21.75	906	6.61	6.53	162		
	10/2/2015 8:59	460.75	1.89	458.86							
	10/2/2015 9:42	460.75			21.25	866	4.84	6.4	132.1	0.41	
	10/2/2015 11:22	460.75			21.59	868	5.08	6.38	190.1	3.3	
	10/8/2015 12:15	460.75	0	460.75							6 days post injection
	10/8/2015 12:57	460.75	1.16	459.59	23.13	833	4.24	6.4	101.4	>3.3	
	11/4/2015 13:05	460.75	2.6	458.15	21.65	871	3.00	6.34	97.6		30 days post injection
	12/1/2015 13:58	460.75	3.91	456.84	19.67	800	2.02	6.29	136.2	1.4	60 days post injection
	1/8/2016 8:40	460.75	5.00	455.75	16.94	822	2.17	6.19	209.8	0.14	90 days post injection

TABLE 15
SUMMARY OF WATER QUALITY PARAMETERS (MW-61R PILOT TEST)
Whirlpool Facility - Fort Smith, Arkansas

Well	Time - Time Stamp	TOC Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Temperature (°C)	Conductivity (µS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Fe(II) (mg/L)	Notes
TMW-11	9/18/2015 10:05	460.20	3.49	456.71	23.93	1005	3.07	6.52	12.4	ND	Pre-Injection Baseline
	10/1/2015 9:34	460.20	2.51	457.69							During Injection
	10/1/2015 10:31	460.20	3.49	456.71	22.07	985	2.58	6.75	126.8	ND	
	10/1/2015 18:08	460.20			21.27	968	6.71	6.86	166		
	10/2/2015 13:58	460.20			21.00	1147	4.06	6.62	28.3	3.3	
	10/2/2015 15:46	460.20			21.39	1033	3.05	6.58	37		
	10/8/2015 13:02	460.20	6.44	453.76	23.35	5448	1.01	5.72	-61.9	3.0	6 days post injection
	11/4/2015 14:00	460.20	1.98	458.22	21.59	4,196	5.16	6.24	-18.4	3.3	30 days post injection
	12/1/2015 13:35	460.20	3.25	456.95	17.07	5,609	0.11	6.74	-150.3	4.4	60 days post injection
	1/8/2016 8:53	460.20	4.43	455.77	15.83	3,793	0.16	7.19	-128	>3.0	90 days post injection

Notes:

µS/cm: MicroSiemens per centimeter
mg/L: Miligrams per liter
ND: Not detected
TOC: Top of casing
DO: Dissolved oxygen
ORP: Oxidation reduction potential
mV: Millivolts

TABLE 16
GROUNDWATER SAMPLE ANALYTICAL RESULTS ISCR PILOT WELLS
July 2015 - January 2016
Whirlpool Facility - Fort Smith, Arkansas

Location		MW-61R	MW-61R	MW-61R	MW-61R	MW-61R	MW-61R	MW-61R	TMW-10	TMW-10	TMW-10	TMW-10	TMW-10	TMW-11	TMW-11	TMW-11	TMW-11	TMW-11
Field Sample ID		MW-61R-201507	MW-61R-GW-091815	MW-61R-201510	DUP-02-201510	MW-61R-201511	MW-61R-201512	MW-61R-201601	TMW-10-GW-091815	TMW-10-201510	TMW-10-201511	TMW-10-201512	TMW-10-201601	TMW-11-GW-091815	TMW-11-201510	TMW-11-201511	TMW-11-201512	TMW-11-201601
Lab Sample ID(s)	Remedial Action Levels per ADEQ RADD Issued Dec 2013	057MG030, 161940005, 60198937025	167200003, 60203213003	086MJ09, 169690006, 60204767001	60204767002	60206665003	175080003, 60208468003	179040010, 021NA08	167200002, 60203213002	60204791002	60206665001	175080001, 60208468001	60210924001	167200001, 60203213001	60204791001	60206665002	175080002, 60208468002	179040011, 021NA010
Sample Date		7/21/2015	9/18/2015	10/8/2015	10/8/2015	11/4/2015	12/1/2015	1/8/2016	9/18/2015	10/8/2015	11/4/2015	12/1/2015	1/8/2016	9/18/2015	10/8/2015	11/4/2015	12/1/2015	1/8/2016
Sample Method		Low Flow		Low Flow	Low Flow			Low Flow		Low Flow			Low Flow		Low Flow			Low Flow
Comments					Field Duplicate													
Volatile Organic Compounds																		
Acetone	12000	U (1.9)	U (1.9)	U (1.9)	U (1.9)	58.1 (1.9)	148 (1.9)	U (1.9)	U (1.9)	3.4 J (1.9)	8.4 J (1.9)	2.0 (1.9)	U (1.9)	U (1.9)	104 (1.9)	636 (1.9)	1420 (9.4)	1120 (9.4)
Benzene	5	U (0.060)	U (0.060)	0.099 J (0.060)	0.11 J (0.060)	U (0.060)	0.10 J (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	0.27 J (0.060)	U (0.060)	0.15 J (0.060)	0.11 J (0.060)
Bromodichloromethane	80	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)	U (0.19)
Bromoform	80	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)
Bromomethane	7	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	1.8 J (0.16)	U (0.16)	U (0.16)
2-Butanone	4900	U (0.59)	U (0.59)	243 (0.59)	269 (0.59)	155 (0.59)	233 (0.59)	U (0.59)	U (0.59)	3.6 J (0.59)	8.6 J (0.59)	U (0.59)	U (0.59)	U (0.59)	135 (0.59)	810 (0.59)	1410 (3.0)	902 (0.59)
Carbon Disulfide	720	U (0.12)	U (0.12)	0.34 J (0.12)	0.59 J (0.12)	0.49 J (0.12)	0.27 J (0.12)	U (0.12)	U (0.12)	U (0.12)	0.31 J (0.12)	U (0.12)	U (0.12)	U (0.12)	0.92 J (0.12)	2.6 J (0.12)	0.38 J (0.12)	0.68 J (0.12)
Carbon Tetrachloride	5	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
Chlorobenzene	100	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)
Chloroethane	12000	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	0.48 J (0.15)	U (0.15)
Chloroform	80	0.45 J (0.14)	0.18 J (0.14)	0.20 J (0.14)	0.26 J (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)
Chloromethane	190	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	0.52 J (0.080)	0.27 J (0.080)	U (0.080)	U (0.080)	U (0.080)	0.29 J (0.080)	0.14 J (0.080)	U (0.080)	U (0.080)	U (0.080)	0.46 J (0.080)	0.31 J (0.080)
Dibromochloromethane	80	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)	U (0.21)
1,1-Dichloroethane	2.4	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)	U (0.050)
1,2-Dichloroethane	5	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
1,1-Dichloroethene	7	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	0.26 J (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
cis-1,2-Dichloroethene	70	U (0.080)	U (0.080)	U (0.080)	U (0.080)	1.1 (0.080)	4.6 (0.080)	4.6 (0.080)	1.9 (0.080)	1.1 (0.080)	0.72 J (0.080)	0.88 J (0.080)	3.1 (0.080)	0.15 J (0.080)	U (0.080)	2.5 (0.080)	5.8 (0.080)	5.3 (0.080)
trans-1,2-Dichloroethene	100	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	0.36 J (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	0.64 J (0.20)	U (0.20)
1,2-Dichloropropane	5	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)
1,3-Dichloropropene (total)	0.41	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)
cis-1,3-Dichloropropene		U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)
trans-1,3-Dichloropropene		U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
Ethyl Benzene	700	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)	U (0.18)
2-Hexanone	34	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	3.6 J (1.2)	5.3 J (1.2)	3.9 J (1.2)
4-Methyl-2-pentanone	1000	U (0.42)	U (0.42)	1.5 J (0.42)	1.5 J (0.42)	U (0.42)	0.61 J (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	4.0 J (0.42)	2.0 J (0.42)	1.6 J (0.42)	1.1 J (0.42)
Methylene Chloride	5	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	0.26 (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	0.66 (0.15)	U (0.15)	0.30 (0.15)	U (0.15)
Styrene	100	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
1,1,2,2-Tetrachloroethane	0.066	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Tetrachloroethene	5	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	0.16 J (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Toluene	1000	U (0.17)	U (0.17)	0.22 J (0.17)	0.32 J (0.17)	U (0.17)	0.46 J (0.17)	0.23 J (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	0.46 J (0.17)	U (0.17)	0.57 J (0.17)	0.44 J (0.17)
1,1,1-Trichloroethane	200	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)	U (0.11)
1,1,2-Trichloroethane	5	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
Trichloroethene	5	14.7 (0.17)	16.5 (0.17)	11.7 (0.17)	13.3 (0.17)	9.2 (0.17)	5.0 (0.17)	3.9 (0.17)	190 (0.17)	102 (0.17)	120 (0.17)	114 (0.17)	103 (0.17)	31.1 (0.17)	14.3 (0.17)	6.3 (0.17)	0.63 J (0.17)	3.1 (0.17)
Vinyl Chloride	2	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)
Xylenes (total)	10000	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)
Metals																		
Iron	NE	3790 (50.0)	4110 (50.0)	74000 M1 (50.0)	NM	NM	52400 (50.0)	27300 (50.0)	755 (50.0)	NM	NM	1730 (50.0)	NM	5220 (50.0)	NM	NM	193000 (50.0)	20900 (50.0)
Manganese	NE	1480 (5.0)	NM	20000 M1 (5.0)	NM	NM	6320 (5.0)	2850 (5.0)	NM	NM	NM	37.4 (5.0)	NM	NM	NM	NM	35900 (50.0)	4090 (5.0)
Monitored Natural Attenuation Parameters (Laboratory)																		
Acetic acid	NE	U (5000)	U (5000)	1800000 (100000)	NM	NM	13000 (5000)	U (5000)	U (5000)	NM	NM	U (5000)	NM	U (5000)	NM	NM	1600000 (25000)	18000 (5000)
Total Alkalinity	NE	124000 (20000)	NM	1190000 (40000)	NM	NM	862000 (20000)	U (20000)	NM	NM	NM	154000 (20000)	NM	NM	NM	NM	2630000 (60000)	1750000 (40000)
Ammonia	NE	U (100)	NM	8100 (500)	NM	NM	NM	980 (100)	NM	NM	NM	NM	NM	NM	NM	NM	NM	1900 (100)
Bicarbonate Alkalinity	NE	124000 (20000)	NM	1190000 (40000)	NM	NM	862000 (20000)	U (20000)	NM	NM	NM	154000 (20000)	NM	NM	NM	NM	2630000 (60000)	1750000 (40000)
Butyric acid	NE	U (5000)	U (5000)	280000 (100000)	NM	NM	U (5000)	U (5000)	U (5000)	NM	NM	U (5000)	NM	U (5000)	NM	NM	600000 (25000)	U (5000)
Carbon Dioxide	NE	265000 (20000)	NM	8230000 (20000)	NM	NM	1000000 (20000)	U (20000)	NM	NM	NM	294000 (20000)	NM	NM	NM	NM	3270000 (20000)	1770000 (20000)
Organic Carbon (total)	NE	U (1000)	U (1000)	1620000 (200000)	NM	NM	NM	7700 (2000)	U (1000)	NM	NM	NM	NM	U (1000)	NM	NM	NM	306000 (100000)
Organic Carbon (dissolved)	NE	NM	U (1000)	NM	NM	NM	NM	4000 (1000)	U (1000)	NM	NM	NM	NM	U (1000)	NM	NM	NM	284000 (50000)
Carbonate Alkalinity	NE	U (20000)	NM	U (40000)	NM	NM	U (20000)	U (20000)	NM	NM	NM	U (20000)	NM	NM	NM	NM	U (60000)	U (40000)
Chloride	NE	110000 (10000)	108000 (10000)	130000 (20000)	NM	NM	NM	81200 (5000)	177000 (10000)	NM	NM	NM	NM	149000 (10000)	NM	NM	NM	131000 (20000)
2-Chloroethanol	NE	U (10000)	U (10000)	U (10000)	NM	NM	NM	U (10000)	U (10000)	NM	NM	NM	NM	U (10000)	NM	NM	NM	NM
Iron, Ferric	NE	2000 (200)	4100 (200)	70700 (200)	NM	NM	NM	24300 (200)	760 (200)	NM	NM	NM	NM	5200 (200)	NM	NM	NM	17900 (200)
Lactic Acid	NE	U (10000)	U (10000)	U (20000)	NM	NM	U (10000)	U (10000)	U (10000)	NM	NM	U (10000)	NM	U (10000)	NM	NM	160000 (10000)	64000 (10000)
Nitrogen	NE	1300 M1 (100)	1400 (100)	110 M1 (100)	NM	NM	NM	U (100)	280 (100)	NM	NM	NM	NM	U (100)	NM	NM	NM	U (100)
Nitrogen, Nitrate (As N)	NE	1300 (100)	1400 (100)	110 M1 (100)	NM	NM	U (1000)	U (100)	280 (100)	NM	NM	1900 (1000)	NM	U (100)	NM	NM	U (1000)	U (100)
Nitrogen, Nitrite	NE	U (100)	U (100)	U (100)	NM	NM	U (1000)	U (100)	U (100)	NM	NM	U (1000)	NM	U (100)	NM	NM	U (1000)	U (100)
pH [PH UNITS]	NE	6.2 (0.10)	NM	5.5 (0.10)	NM	NM	6.8 (0.10)	6.8 (0.10)	NM	NM	NM	6.3 (0.10)	NM	NM	NM	NM	6.7 (0.10)	7.2 (0.10)
Phosphates (total)	NE	130 M1 (30)	NM	3600 (310)	NM	NM	NM	180 (30)	NM	NM	NM	NM	NM	NM	NM	NM	NM	350 (30)
Propionic Acid	NE	U (5000)	U (5000)	140000 (100000)	NM	NM	76000 (5000)	U (5000)	U (5000)	NM	NM	U (5000)	NM	U (5000)	NM	NM	550000 (25000)	260000 (5000)
Pyruvic Acid	NE	U (5000)	U (5000)	U (10000)	NM	NM	U (5000)	U (5000)	U (5000)	NM	NM	U (5000)	NM	U (5000)	NM	NM	U (5000)	U (5000)
Sulfide (total)	NE	U (50)	NM	21 J (50)	NM	NM	NM	U (50)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Sulfate	NE	14800 (1000)	11000 (1000)	79000 (5000)	NM	NM	7400 (1000)	12100 (1000)	2100 (1000)	NM	NM	3700 (1000)	NM	3300 (1000)	NM	NM	910 J (1000)	1200 (1000)
Gases																		
Acetylene	NE	U (0.50)	NM	U (0.50)	NM	NM	U (0.50)	U (0.50)	NM	NM	NM	U (0.50)	NM	NM	NM	NM	U (0.50)	U (0.50)
Methane	NE	4.5 (0.50)	2.1 (0.50)	4.3 (0.50)	NM	NM	10000 (0.50)	12000 (0.50)	U (0.50)	NM	NM	1.3 (0.50)	NM	0.57 (0.50)	NM	NM	12000 (0.50)	15000 (0.50)
Ethane	NE	1.4 (0.10)	0.31 (0.10)	0.33 (0.10)	NM	NM	0.41 (0.10)	1.7 (0.10)	U (0.10)	NM	NM	U (0.10)	NM	U (0.10)	NM	NM	0.16 (0.10)	0.36 (0.10)
Ethene	NE	1.1 (0.10)	0.48 (0.10)	1.2 (0.10)	NM	NM	2.7 (0.10)	1.7 (0.10)	U (0.10)	NM	NM	U (0.10)	NM	U (0.10)	NM	NM	2.6 (0.10)	2.4 (0.10)
Hydrogen (H2) [nM][4*]	NE	2.0 (0.60)	NM	500 d (12)	NM	NM	NM	0.98 (0.60)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Molecular Analyses																		
BAV1 Vinyl Chloride Reductase [cells/mL]	NE	U (0.5)	NM	1.9 (1)	NM	NM	NM	U (1)	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (8.33)
Dehalococcoides (DHC) [cells/mL]	NE	U (0.5)	NM	184 (1)	NM	NM	NM	30 (1)	NM	NM	NM	NM	NM	NM	NM	NM	NM	48.9 (8.33)
tceA Reductase [cells/mL]	NE	U (0.5)	NM	U (1)	NM	NM	NM	U (1)	NM	NM	NM	NM	NM	NM	NM	NM	NM	3.2 J (8.33)
Vinyl Chloride Reductase (vrcA) [cells/mL]	NE	U (0.5)	NM	0.3 J (1)	NM	NM	NM	U (1)	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (8.33)

Notes:
1 All concentrations are presented in ug/L except where noted.
2 All compounds are shown.
3 Concentrations that exceed the Remedial Action Levels per ADEQ RADD Issued Dec 2013 are double underlined.
U = Not detected
J = Estimated concentration
d = The analyte concentration was determined from a dilution.
( ) = Method detection limit for VOCs; reporting limit for all other parameters
* = Sampled on different day than other parameters with different method
RADD = Remedial action decision document
ADEQ = Arkansas Department of Environmental Quality
VOC = Volatile organic compounds
µg/L = Micrograms per liter
mL = Milliliters
NE = Not established
NM = Not measured

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TABLE 17
SUMMARY OF TCE CONCENTRATIONS (ISCR PILOT STUDY)
Whirlpool Facility - Fort Smith, Arkansas

Event	Date(s)	MW-61R	TMW-10	TMW-11
Baseline	9/18/2015	16.5	190	31.1
4Q monitoring (6 days post)	10/8/2015	11.7	102	14.3
30 days after injection	11/5/2015	9.2	120	6.3
60 days after injection	12/1/2015	5	114	0.63
90 days after injecton	1/8/2016	3.9	103	3.1
	Percent Reduction	76.4%	45.8%	90.0%

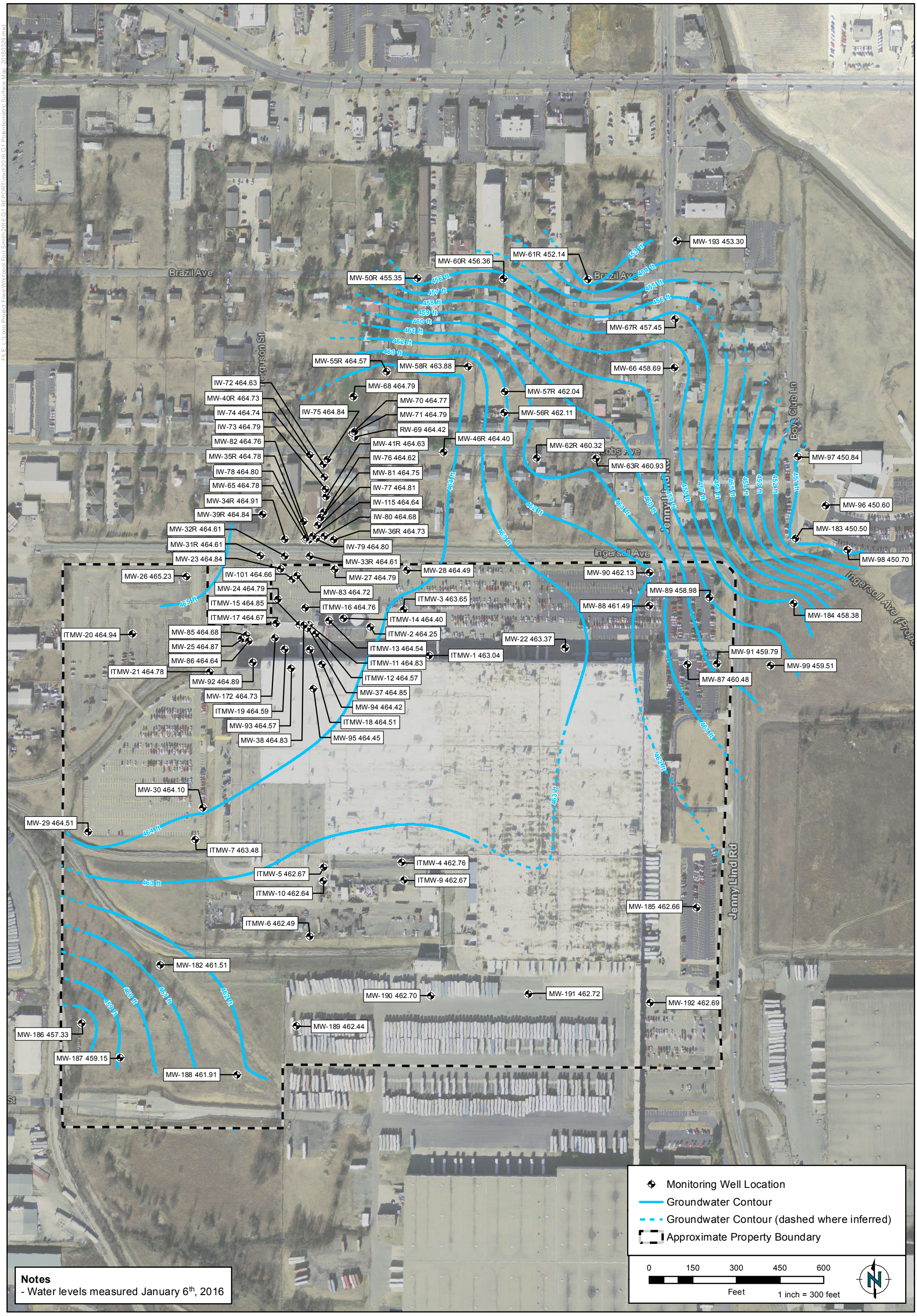
Notes:

Concentrations in micrograms per liter (µg/L)

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Figures

FILE: L:\Loop Project Files\Whirlpool Fort Smith\2016 Q1 REPORT\mxd\2016 Q1 Potentiometric Surface Map_20160329.mxd



RAMBOLL ENVIRON

FIRST QUARTER 2016 POTENTIOMETRIC SURFACE

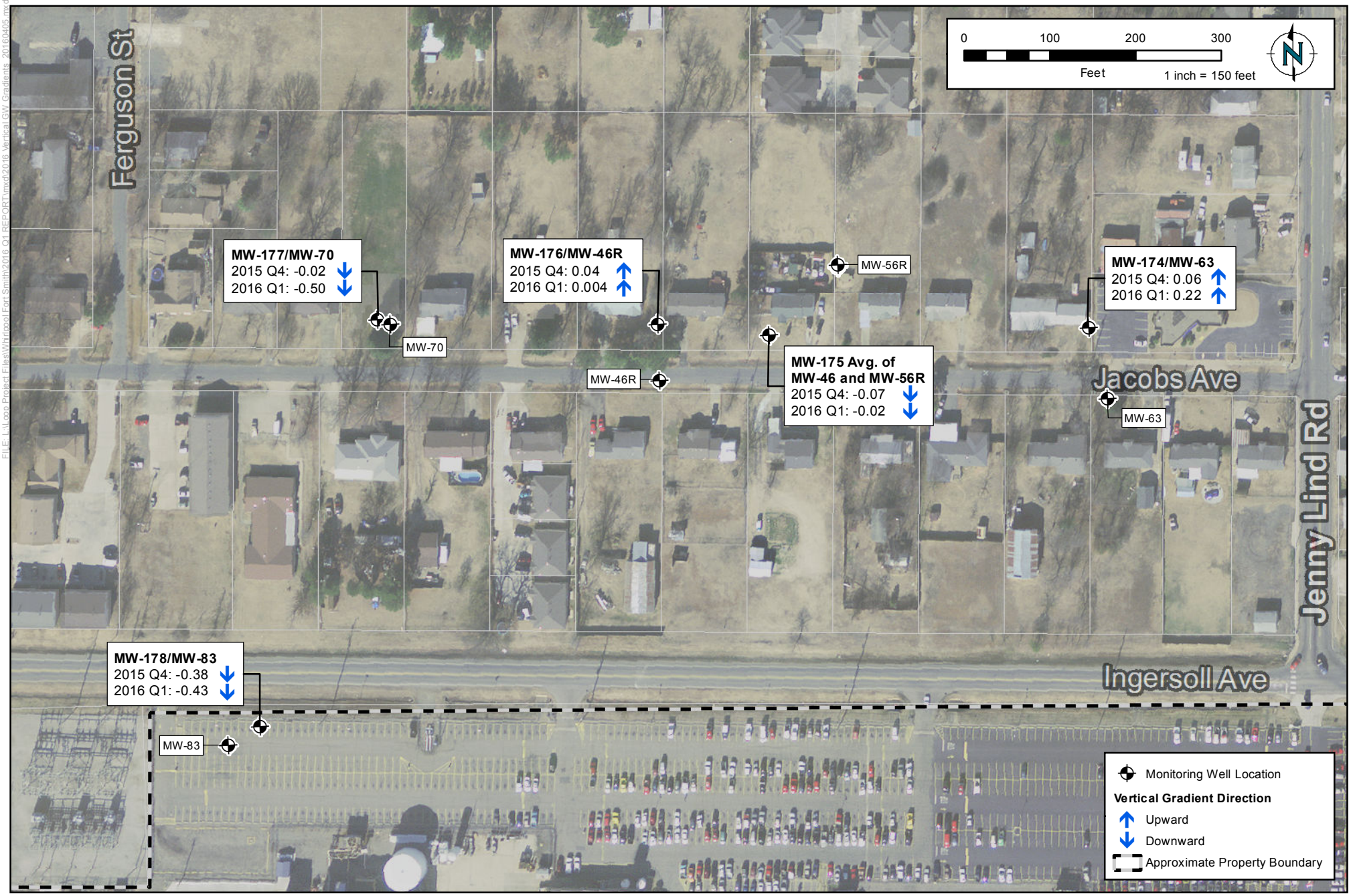
Whirlpool Facility - Fort Smith, Arkansas

Figure 1A

DRAFTED BY: FK

DATE: 03/30/2016

PROJECT: 3437500O



RAMBOLL ENVIRON

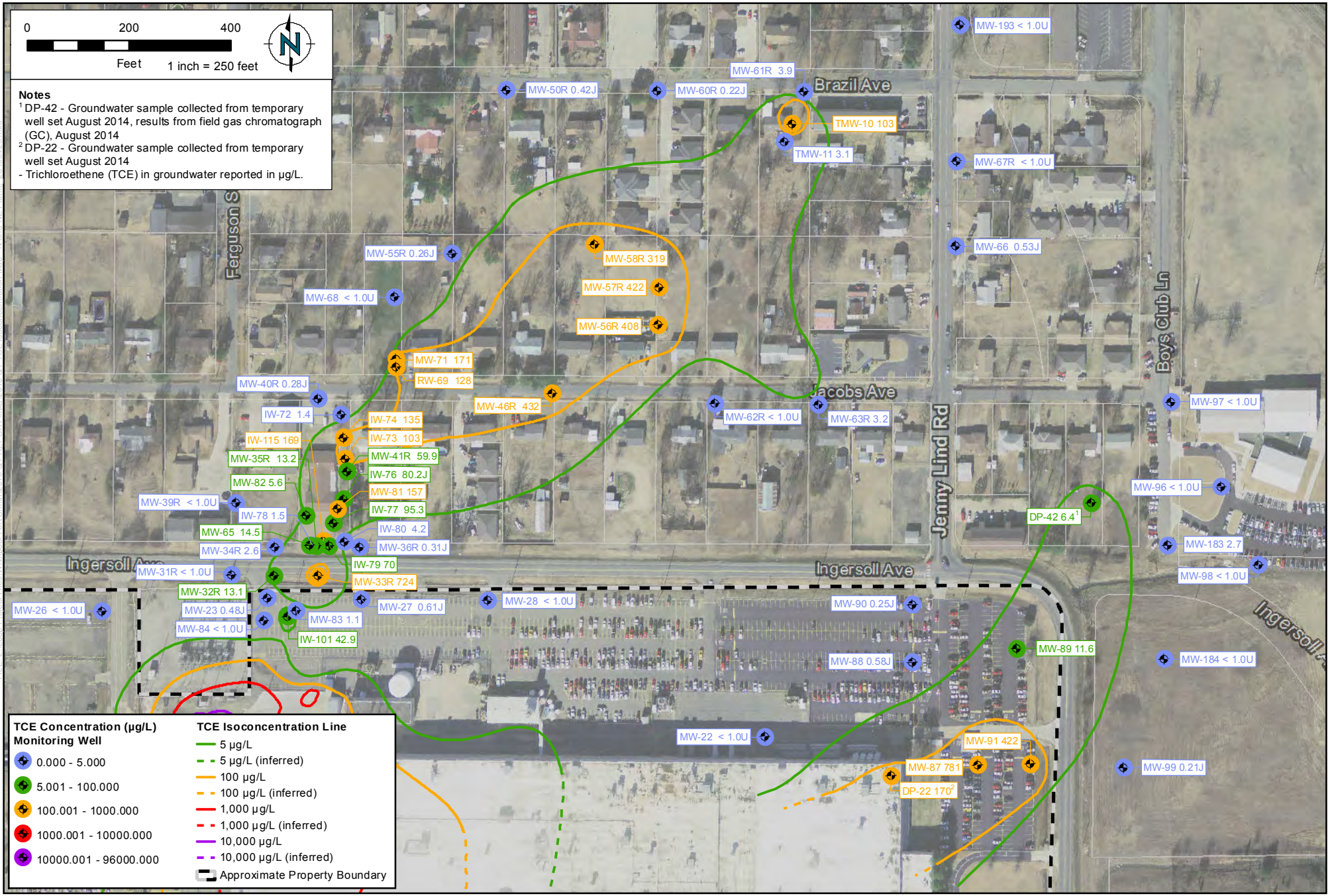
DRAFTED BY: FK | DATE: 04/05/2016

VERTICAL GROUNDWATER GRADIENTS OBSERVED IN NESTED WELLS FOURTH QUARTER 2015 / FIRST QUARTER 2016

Whirlpool Facility - Fort Smith, Arkansas

Figure 1B

PROJECT: 3437500O



RAMBOLL ENVIRON

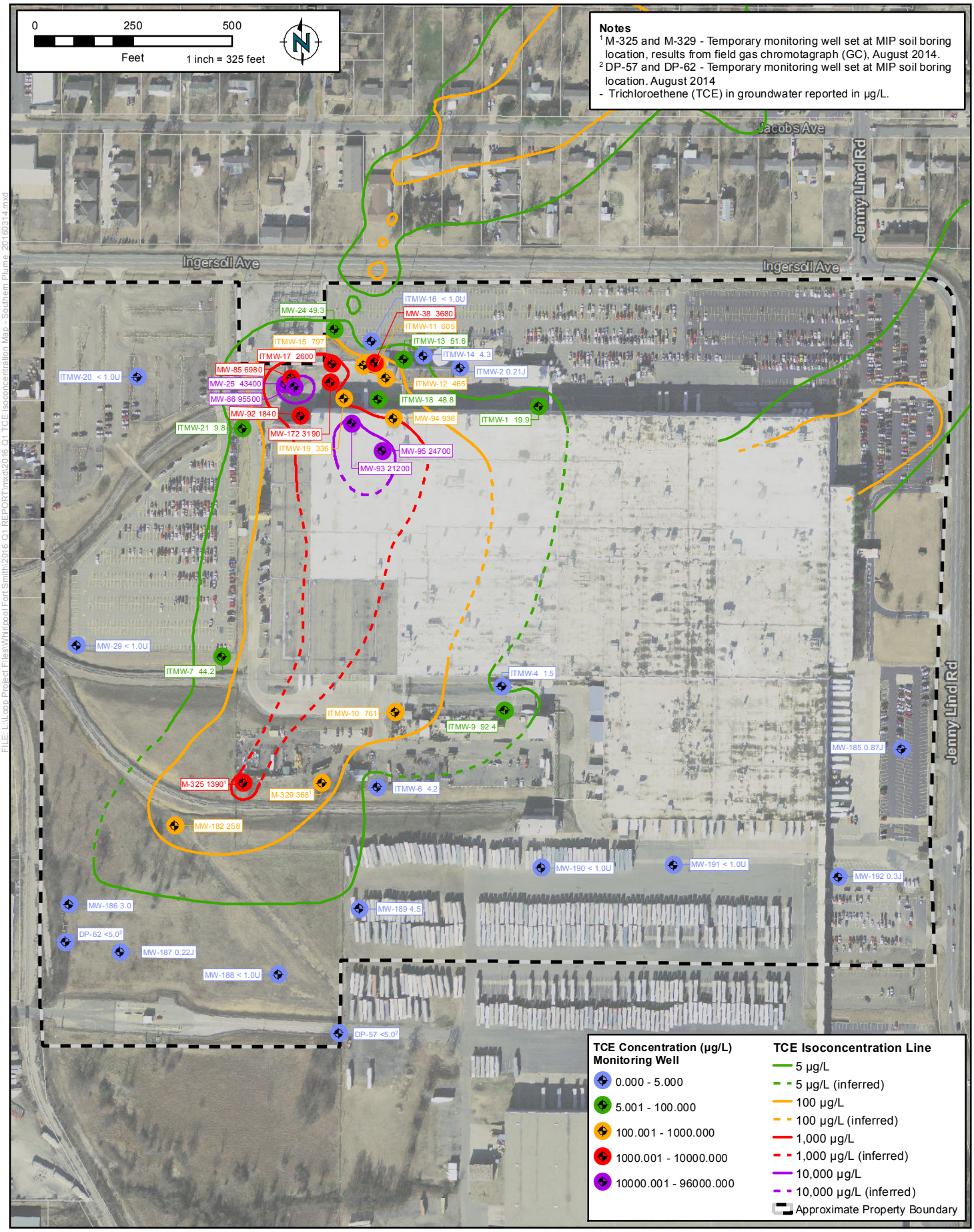
2016 FIRST QUARTER TCE ISOCONCENTRATION MAP NORTHERN AND NORTHEASTERN PLUMES

Whirlpool Facility - Fort Smith, Arkansas

Figure 2A

DRAFTED BY: FK | DATE: 04/29/2016 | PROJECT: 3437500O

FILE: L:\Loop Project Files\Whirlpool Fort Smith\2016 Q1 REPORT\mxd\2016 Q1 TCE Isoconcentration Map - N and NE Plume_20160429.mxd



FILE: L:\Loop Project Files\Whirlpool Fort Smith\2016 Q1 REPORT\mxd\2016 Q1 TCE Isoconcentration Map - Southern Plume_20160314.mxd

RAMBOLL ENVIRON

2016 FIRST QUARTER TCE ISOCONCENTRATION MAP SOUTHERN PLUME

Whirlpool Facility - Fort Smith, Arkansas

Figure 2B

DRAFTED BY: FK | DATE: 03/14/2016 | PROJECT: 3437500M

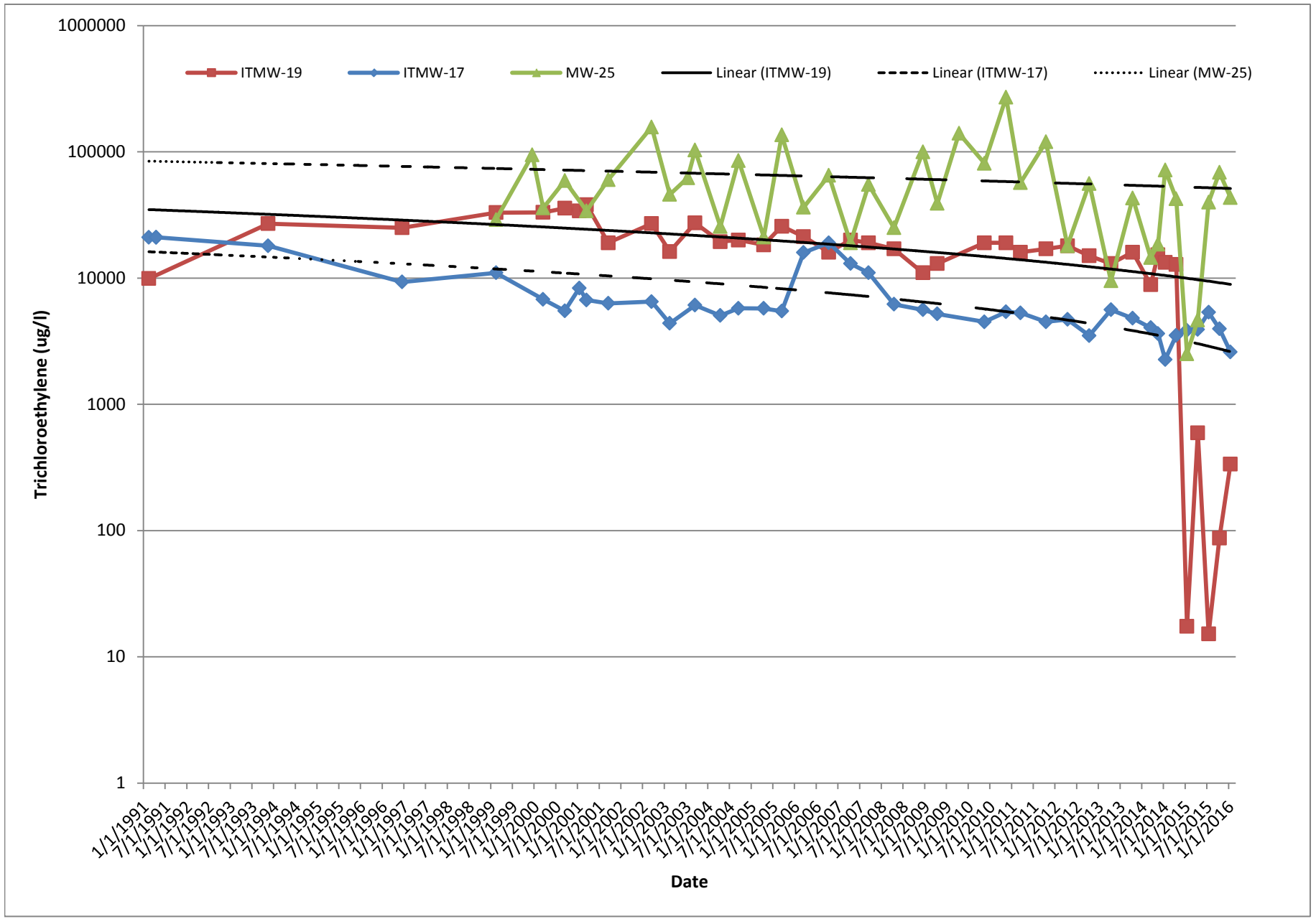


Figure 3
Whirlpool Facility
Fort Smith, Arkansas

RAMBOLL ENVIRON

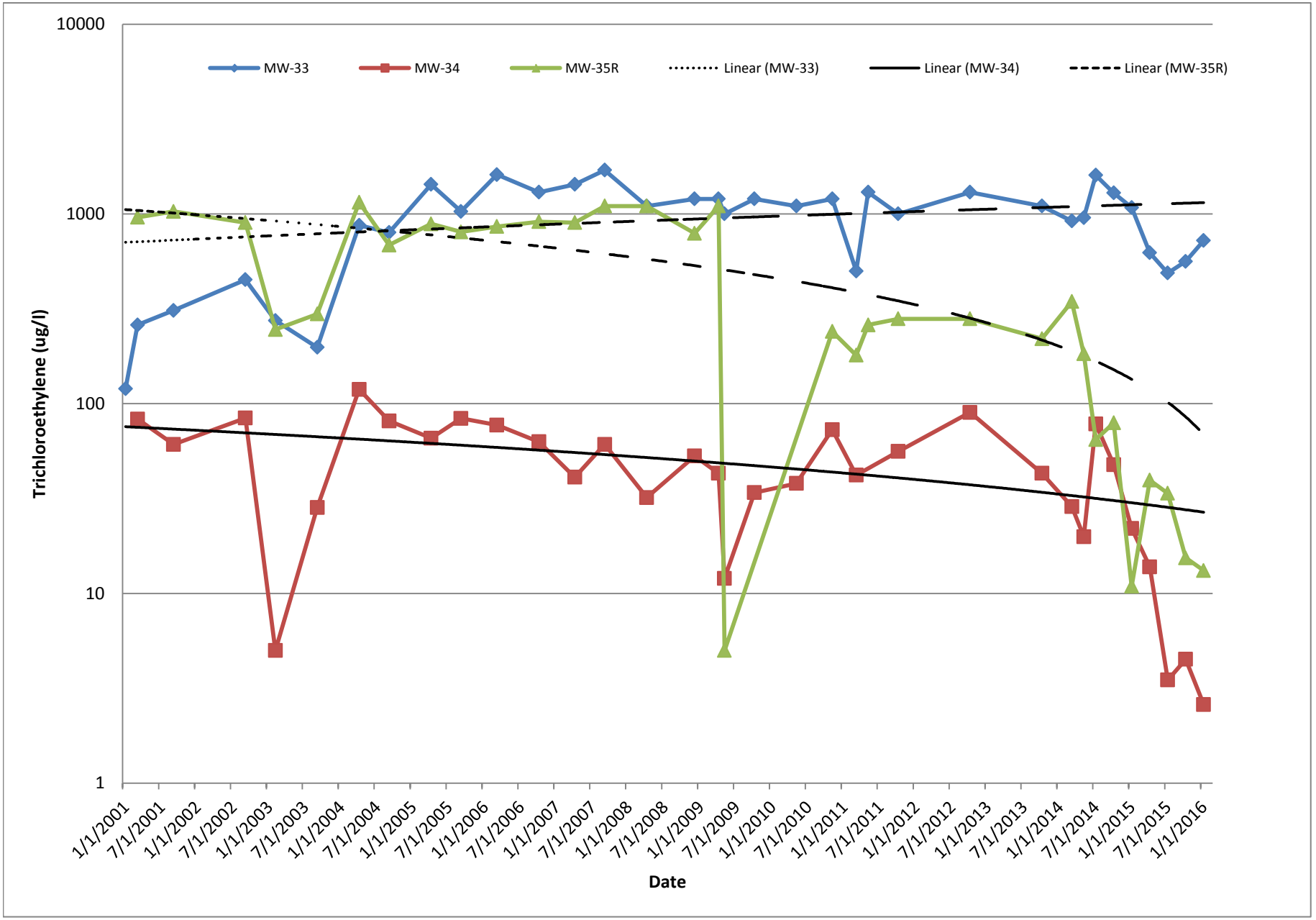


Figure 4
Whirlpool Facility
Fort Smith, Arkansas

RAMBOLL ENVIRON

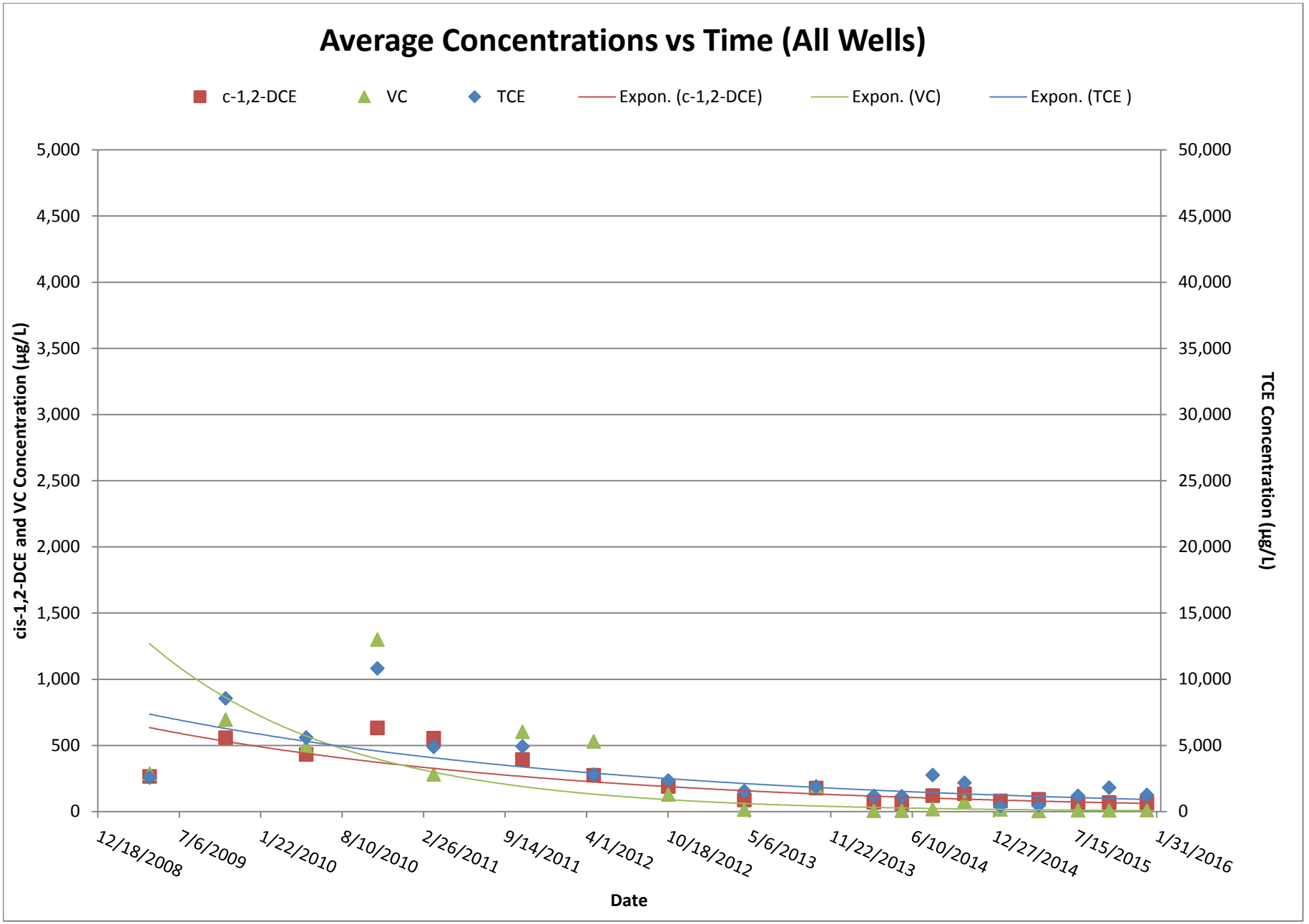


Figure 5
Whirlpool Facility
Fort Smith, Arkansas

RAMBOLL ENVIRON

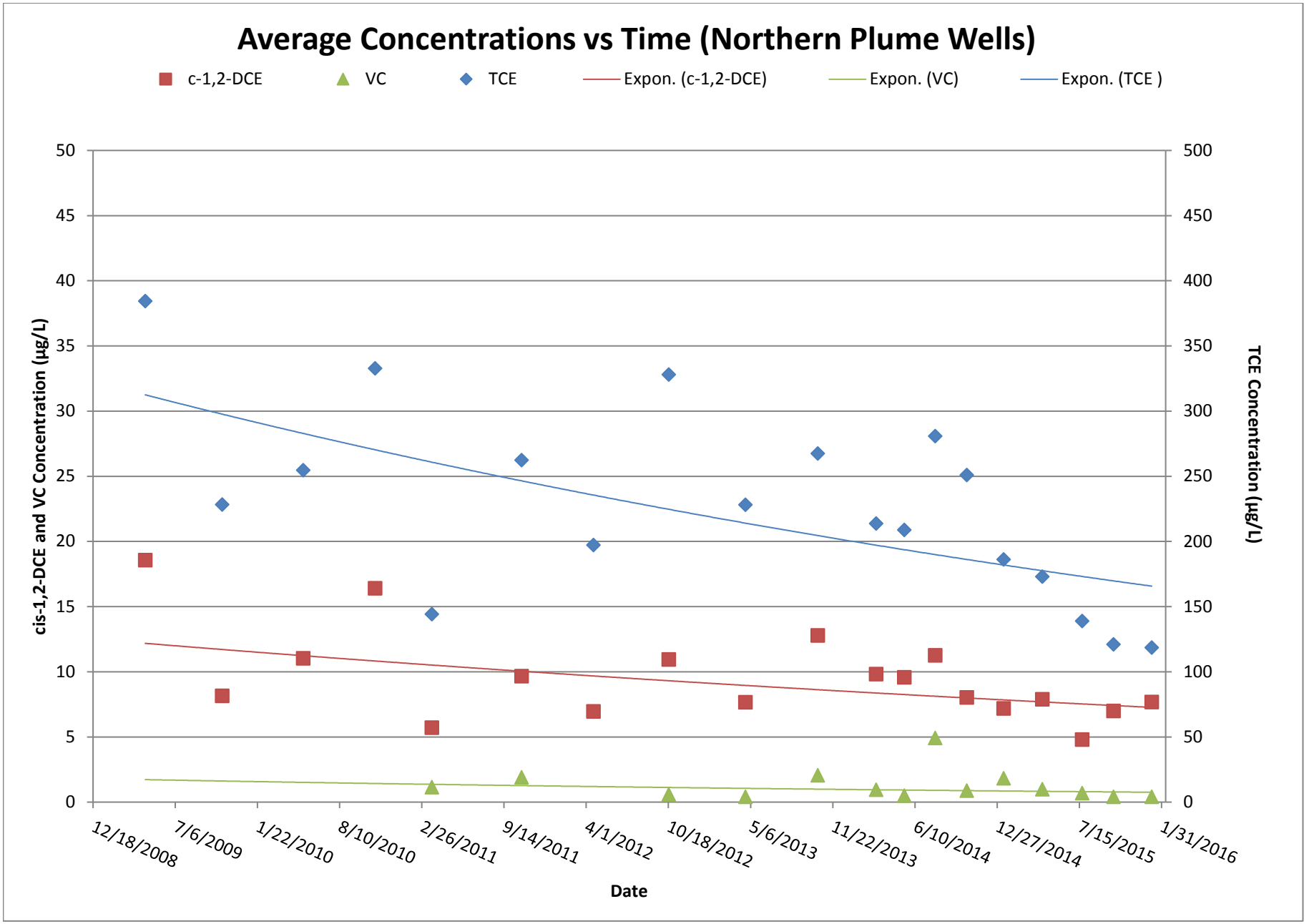


Figure 6
Whirlpool Facility
Fort Smith, Arkansas

RAMBOLL ENVIRON

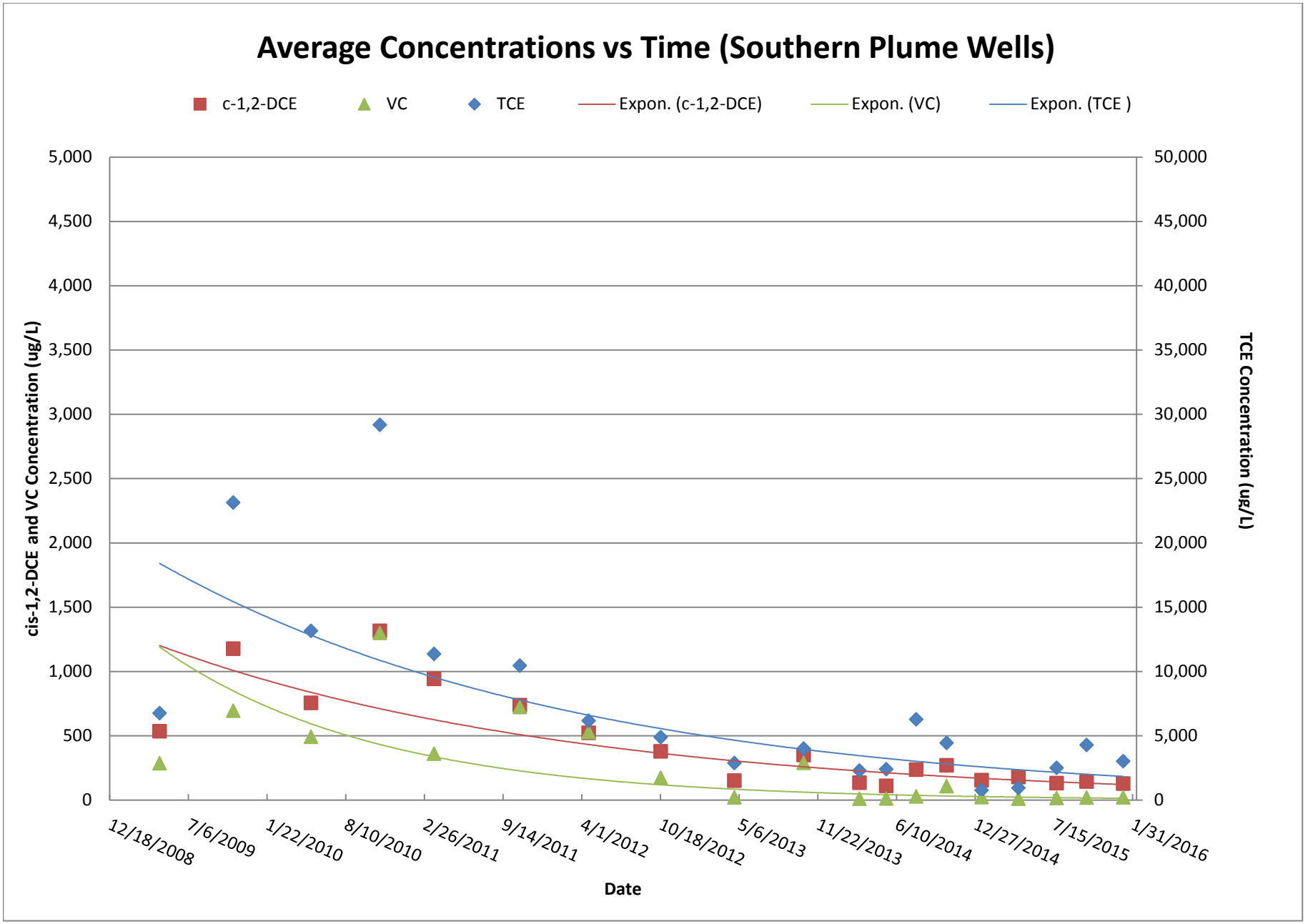


Figure 7
Whirlpool Facility
Fort Smith, Arkansas

RAMBOLL ENVIRON

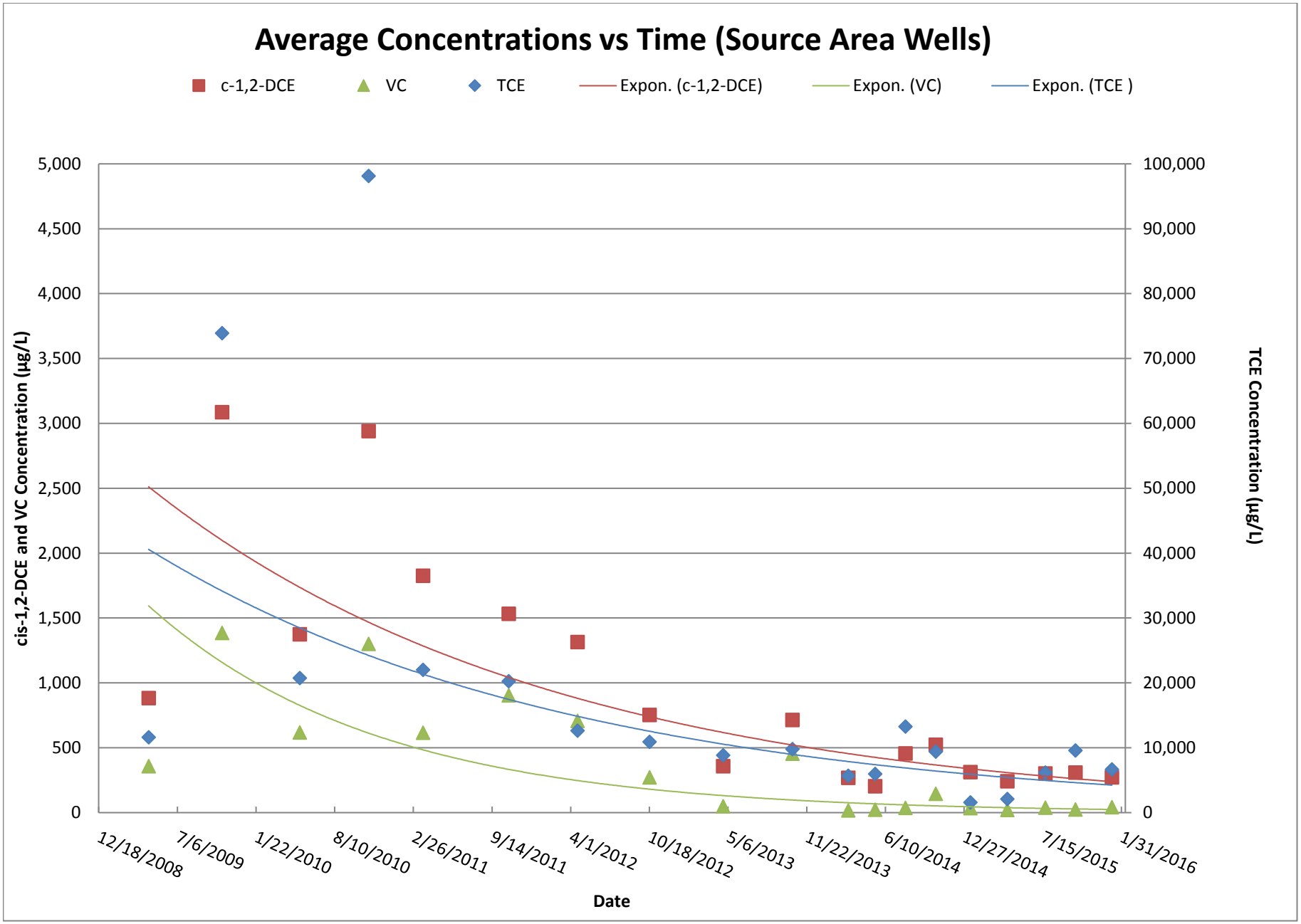


Figure 8
Whirlpool Facility
Fort Smith, Arkansas

RAMBOLL ENVIRON

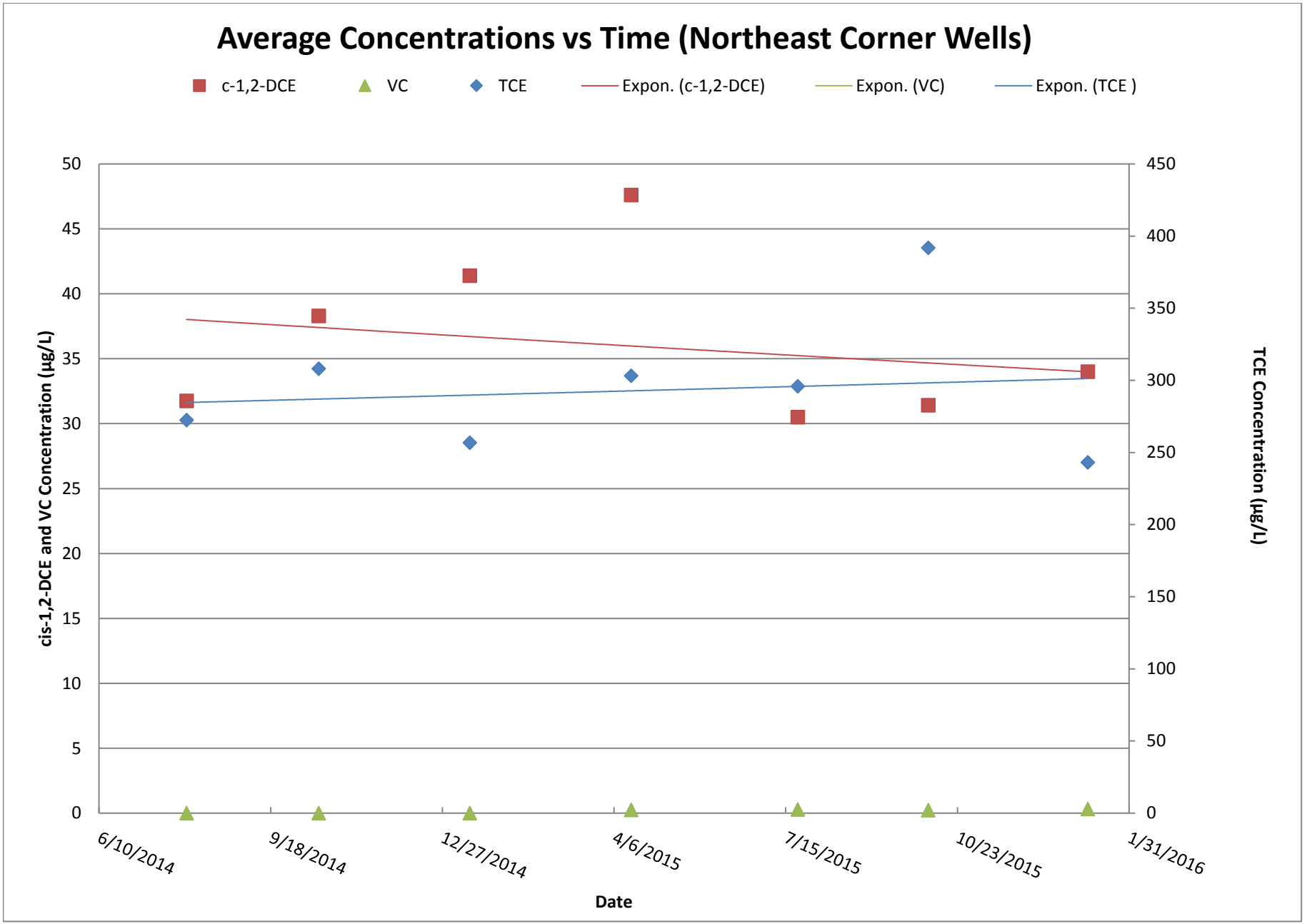


Figure 9
Whirlpool Facility
Fort Smith, Arkansas

RAMBOLL ENVIRON

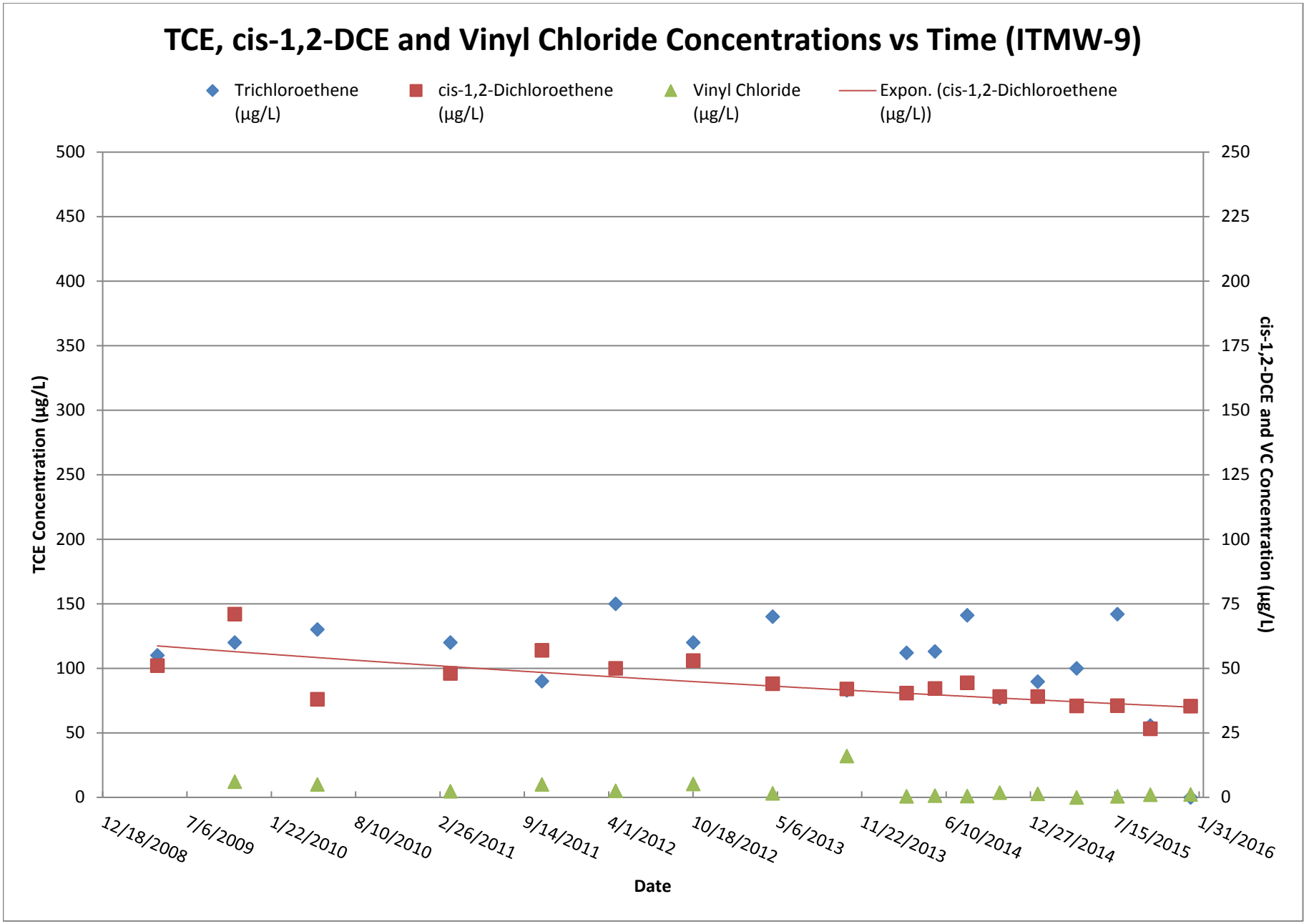


Figure 10a
Whirlpool Facility
Fort Smith, Arkansas

RAMBOLL ENVIRON

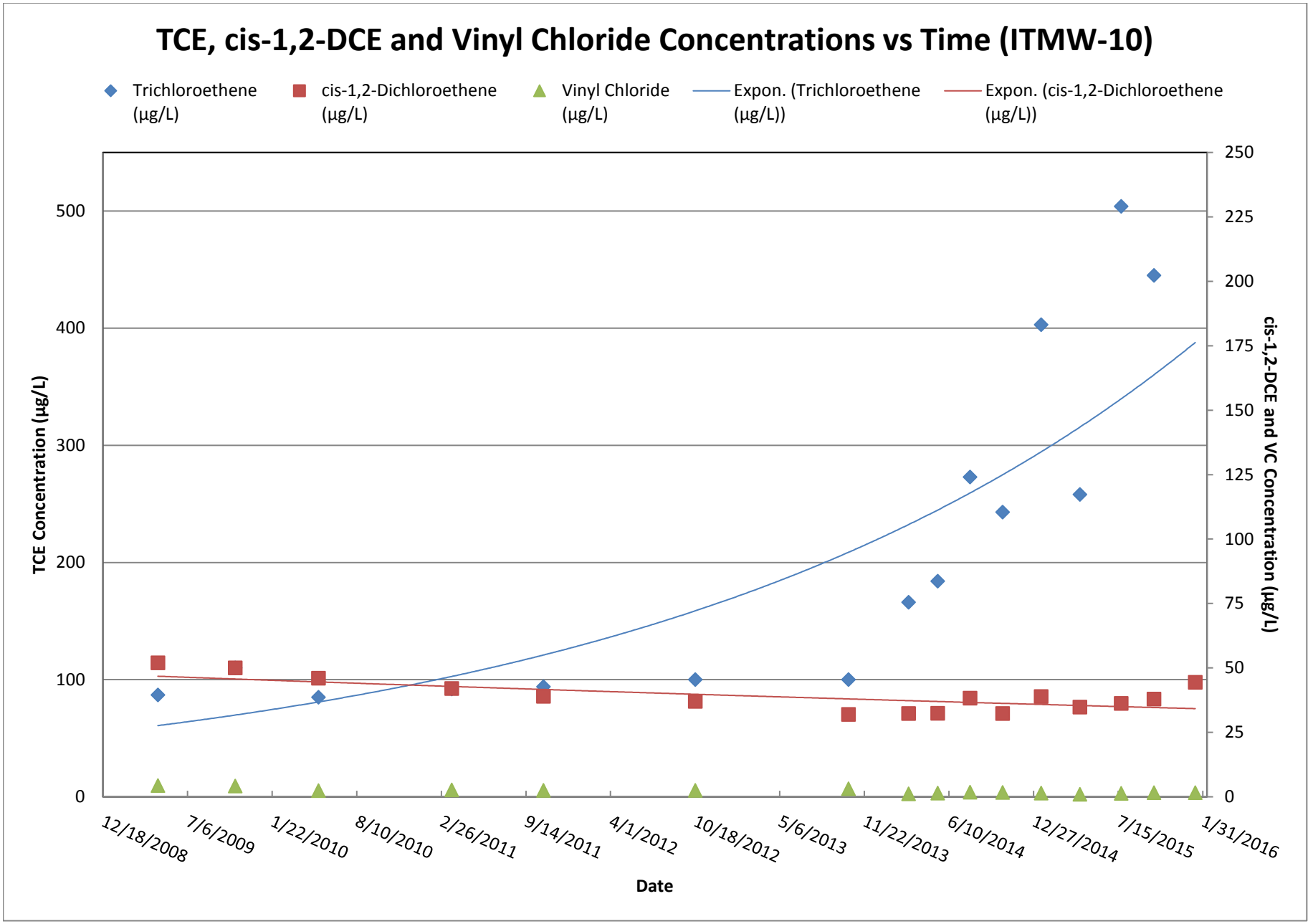


Figure 10b
Whirlpool Facility
Fort Smith, Arkansas

RAMBOLL ENVIRON

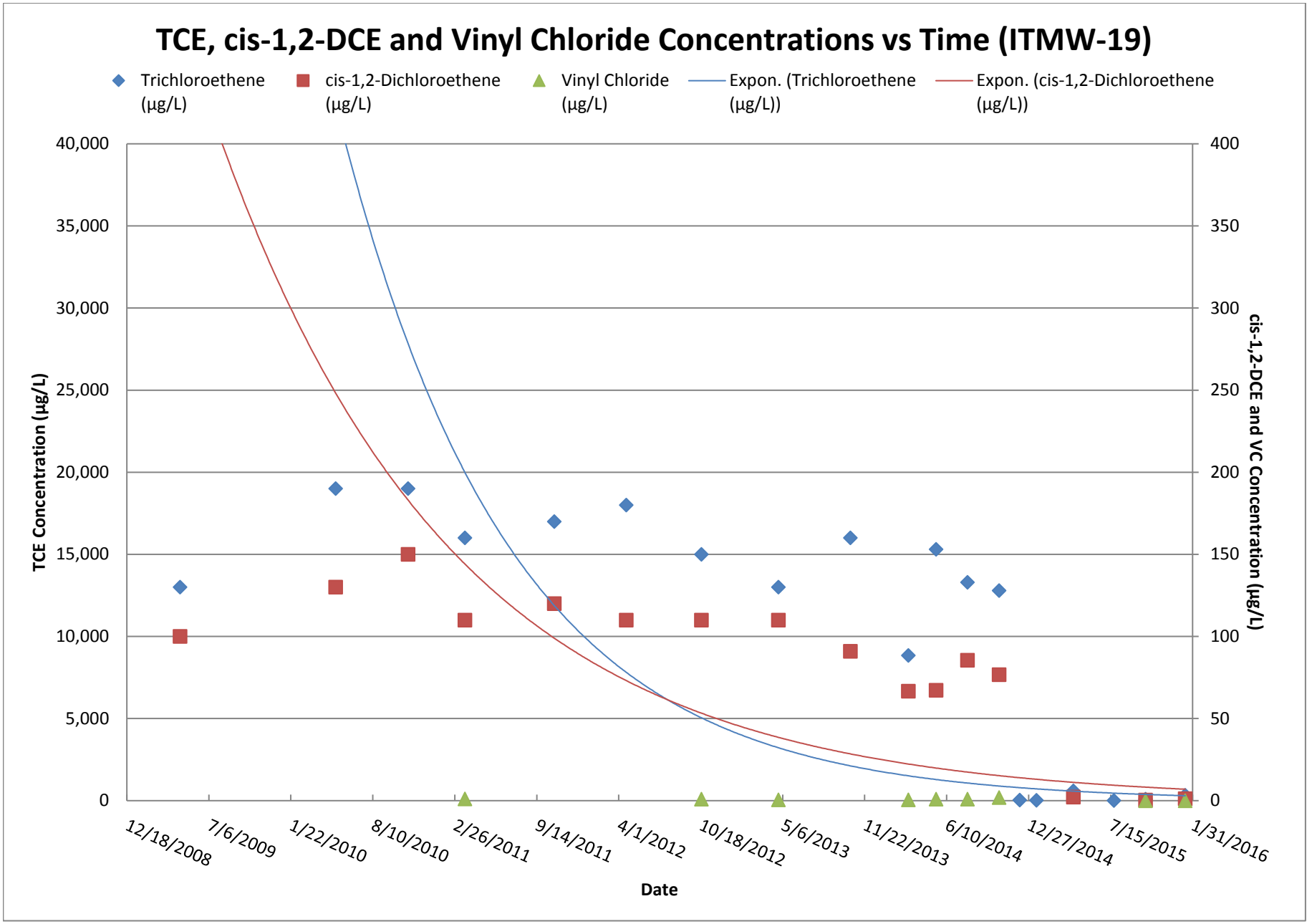


Figure 11a
Whirlpool Facility
Fort Smith, Arkansas

RAMBOLL ENVIRON

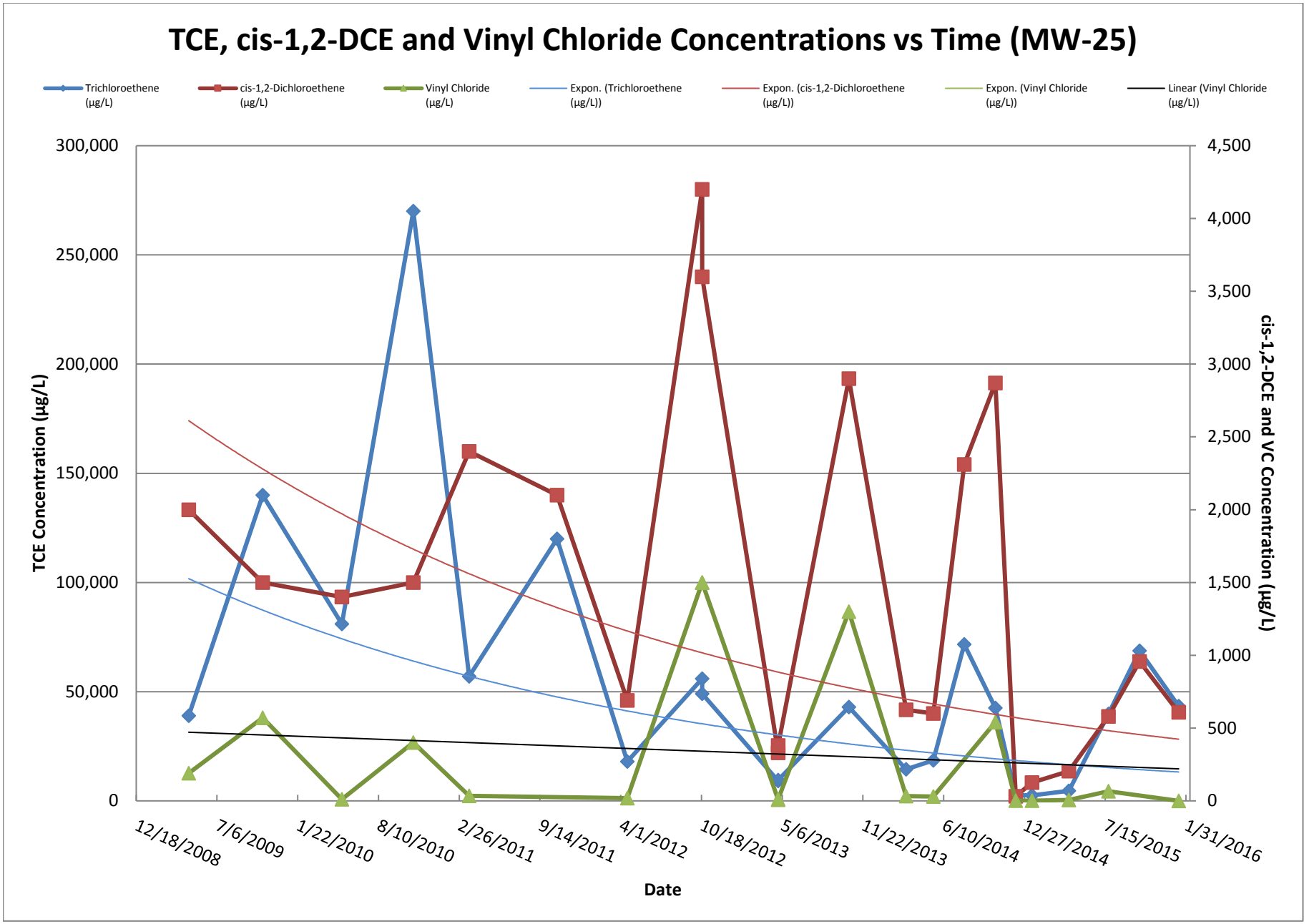


Figure 11b
Whirlpool Facility
Fort Smith, Arkansas

RAMBOLL ENVIRON

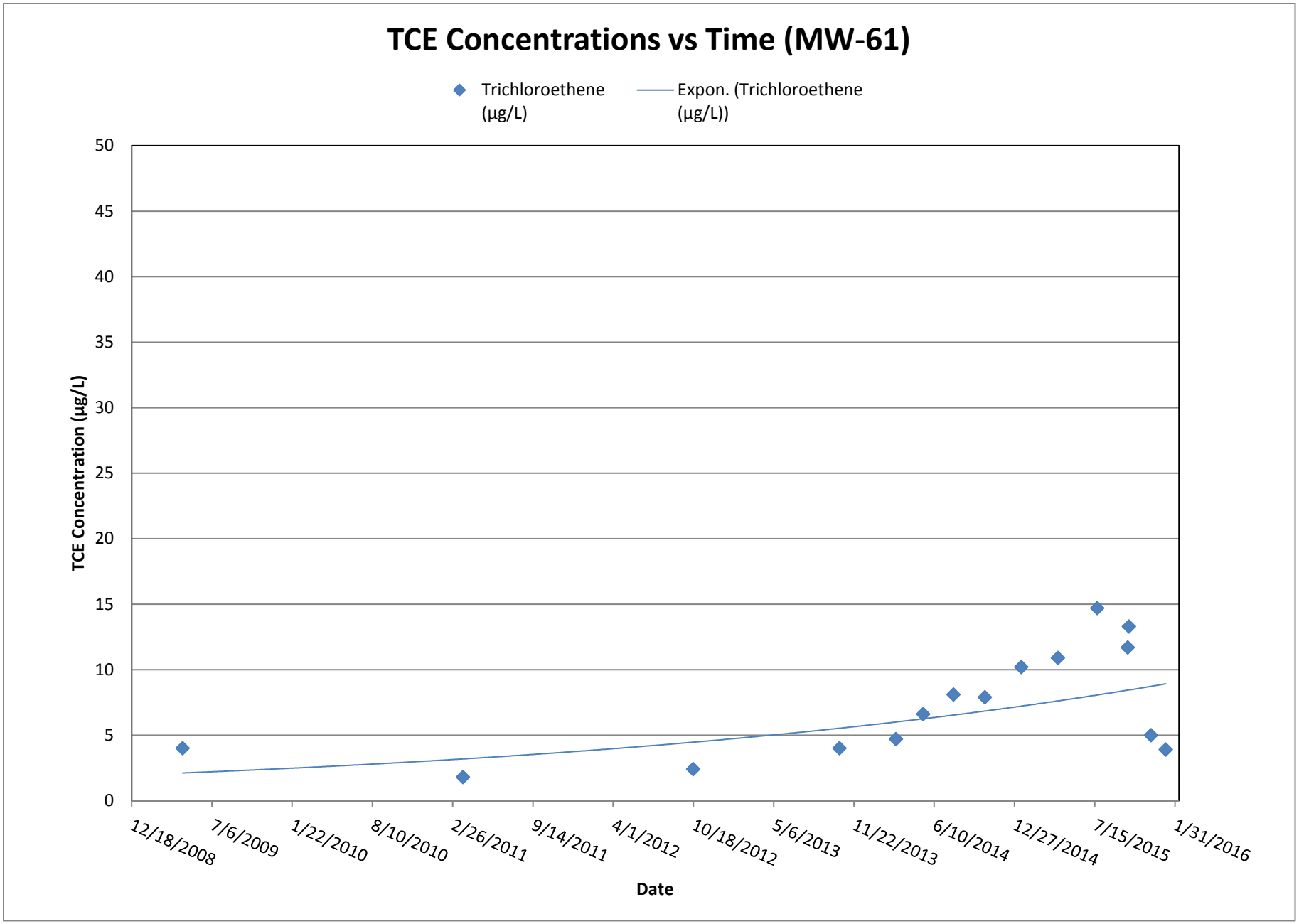


Figure 12
Whirlpool Facility
Fort Smith, Arkansas

RAMBOLL ENVIRON



FILE: L:\Loop Project Files\Whirlpool Fort Smith\2016 Q1 REPORT\mxd\ISCR_Pilot_20160408.mxd

RAMBOLL ENVIRON

DRAFTED BY: FK | DATE: 04/08/2016

ISCR PILOT
PRB TREATMENT ZONES

Whirlpool Facility - Fort Smith, Arkansas

Figure 13

PROJECT: 3437500O

Appendix A

First Quarter 2016 Calibration Logs

Whirlpool Fort Smith Field Equipment Calibration Checklist

Date: January 6, 2016

Calibrated by: Lilly Cross

Turn on YSI. Note time in DO section, line 1!

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 5CF509 **Exp:** 06/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8154 **Exp:** 10/31/19

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC963 **Exp:** 03/2017
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC915 **Exp:** 03/2017
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AA164 **Exp:** 01/2017
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 16:22 + 10min = 16:32
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.13 in. x 25.4 = 765.302 mmHg - 15.169 = 750.133 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Field Notebook calibration entry:
YSI – Serial Number: ~~03119~~ 15C103550

1. Specific Conductance: 1,413
2. ORP: 240.0
3. pH:
   - Point 1: 7.00
   - Point 2: 4.00
   - Point 3: 10.00
4. DO: 98.7%

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/7/16

Calibrated by: Haley Butterfield

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 5AC616 **Exp:** Mar/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8154 **Exp:** 10/31/19

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC488 **Exp:** 3/31/17
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC304 **Exp:** Mar/17
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AA164 **Exp:** Jan/17
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 16:31 + 10min = 16:41
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.13 in. x 25.4 = 765.302 mmHg - 15.169 = 750.133 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 11L100218

1. Specific Conductance: 1.413 mS/cm²
2. ORP: 240
3. pH: [redacted]
   - Point 1: 7.00
   - Point 2: 4.00
   - Point 3: 10.02
4. DO: 98.7 %

Turbidity Meter Model/Serial Number: 2020we, 1129-2811

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/7/16

Calibrated by: NZ

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** SAC616 **Exp:** 3/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8154 **Exp:** 10/31/19

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAC488 **Exp:** 3/31/17
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAC304 **Exp:** 3/17
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAA164 **Exp:** 1/17
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0745 + 10min = 0755
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   29.93 in. x 25.4 = 760.222 mmHg - 15.169 = 745.053 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:
YSI – Serial Number: 11B100641

1. Specific Conductance: 1.413 mS/cm
2. ORP: 240 mV
3. pH:
   - Point 1: 7.00
   - Point 2: 4.00
   - Point 3: 10.03
4. DO: 98.0%

Turbidity Meter Model/Serial Number: 3714 - 3913

Whirlpool Fort Smith Field Equipment Calibration Checklist

Date: January 6, 7, 2016

Calibrated by: Lucy Cross

Turn on YSI. Note time in DO section, line 1!

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 5GF509 **Exp:** 06/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8154 **Exp:** 10/31/19

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #**5AC963 **Exp:** 03/2017
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #**5AC915 **Exp:** 03/2017
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #**5AA164 **Exp:** 01/2017
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0805 + 10min = 0815
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.13 in. x 25.4 = 765.302 mmHg - 15.169 = 750.133 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Field Notebook calibration entry:

YSI – Serial Number: 15C103550

1. Specific Conductance: 1.413
2. ORP: 240
3. pH:
   - Point 1: 7.00
   - Point 2: 4.00
   - Point 3: 10.00
4. DO: 98.7%

Whirlpool Fort Smith Field Equipment Calibration Checklist

Date: January 8, 2016

Calibrated by: Lucy Cross

Turn on YSI. Note time in DO section, line 1!

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 5GF509 **Exp:** 06/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8154 **Exp:** 10/31/19

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC963 **Exp:** 03/2017
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC915 **Exp:** 03/17
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AA164 **Exp:** 1/2017
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0724 + 10min = 0734
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   29.72 in. x 25.4 = 756.088 mmHg - 15.169 = 740.989 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Field Notebook calibration entry: 15C103550
YSI – Serial Number: 15C103550

1. Specific Conductance: 1,413
2. ORP: 240
3. pH:
   - Point 1: 7.0
   - Point 2: 4.0
   - Point 3: 10.00
4. DO: 97.5

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/8/16

Calibrated by: H. Butterfield

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 5AC6116 **Exp:** Mar/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8154 **Exp:** 10/31/19

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC488 **Exp:** 3/31/17
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC304 **Exp:** Mar/17
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AA164 **Exp:** Jan/17
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 6:32 + 10min = 6:42
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   29.77 in. x 25.4 = 756.158 mmHg - 15.169 = 740.989 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 11L100218

1. Specific Conductance: 1.413 mS/cm
2. ORP: 240.0
3. pH:
   - Point 1: 7.00
   - Point 2: 4.00
   - Point 3: 10.01
4. DO: 7.77 mg/L

Turbidity Meter Model/Serial Number: 2020 we / 1129-2811

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/8/16

Calibrated by: NZ

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** SAC616 **Exp:** 3/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8154 **Exp:** 10/31/19

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAC963 **Exp:** 3/2017
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAC915 **Exp:** 3/17
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAA164 **Exp:** 1/17
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0630 + 10min = 0640
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   29.77 in. x 25.4 = 756.158mmHg - 15.169 = 740.989 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 11B100641

1. Specific Conductance: 1413 ms/cm
2. ORP: 240.0 mV
3. pH:
   - Point 1: 7.00
   - Point 2: 4.00
   - Point 3: 10.01
4. DO: 97.5%

Turbidity Meter Model/Serial Number: 3714-3913

Whirlpool Fort Smith Field Equipment Calibration Checklist

Date: 11/1/2016

Calibrated by: Victoria Sieglen

Turn on YSI. Note time in DO section, line 1!

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 56F509 **Exp:** 6/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 77605 **Exp:** 6/19

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC963 **Exp:** 3/17
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC915 **Exp:** 3/17
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AA164 **Exp:** 1/17
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0710 + 10min = 0720
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.27 in. x 25.4 = 768.858 mmHg - 15.169 = 753.69 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Field Notebook calibration entry:
YSI – Serial Number: 03 1119

1. Specific Conductance: 1430
2. ORP: 290.1
3. pH:
   - Point 1: 7.08
   - Point 2: 3.94
   - Point 3: 10.03
4. DO: 13.74

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/11/16

Calibrated by: Michael Chomic

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 5AC616 **Exp:** 3/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8154 **Exp:** 10/31/19

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC488 **Exp:** 3/31/17
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC304 **Exp:** 3/17
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AA164 **Exp:** 1/17
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0730 + 10min = 0740
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.30 in. x 25.4 = 769.62 mmHg - 15.169 = 754.451 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 05B176AA

1. Specific Conductance:
2. ORP: 240
3. pH:
   - Point 1: 7.0
   - Point 2: 4.0
   - Point 3: 10.0
4. DO: 99.3

Turbidity Meter Model/Serial Number: 2020we / 029750

RAMBOLL ENVIRON

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/11/16

Calibrated by: Cbednaz

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 5AC0110 **Exp:** Mar/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 5154 **Exp:** 10/31/19

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC488 **Exp:** 3/31/17
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC304 **Exp:** Mar/17
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AA104 **Exp:** Jan/17
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0810 + 10min = 0820
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.30 in. x 25.4 = 769.62 mmHg - 15.169 = 754.451 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 17842

1. Specific Conductance: 1413
2. ORP: 240.0
3. pH:
   - Point 1: 7.0
   - Point 2: 4.0
   - Point 3: 10.00
4. DO: 99.3%

Turbidity Meter Model/Serial Number:

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/11/2016

Calibrated by: Wendy Stonestreet

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 5AC616 **Exp:** MAR/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 7760 **Exp:** 6/19

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC963 **Exp:** 3/2017
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC304 **Exp:** Mar/17
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AA164 **Exp:** JAN 17
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 810 + 10min = 820
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.29 in. x 25.4 = 769.366 mmHg - 15.169 = 754.197 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 12K101899

1. Specific Conductance: 1.413
2. ORP: 240.0
3. pH:
   - Point 1: 3.99
   - Point 2: 7.00
   - Point 3: 10.09
4. DO: 98.3%

Turbidity Meter Model/Serial Number:

RAMBOLL ENVIRON

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/11/2016

Calibrated by: Lucy Cross

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 5IAC616 **Exp:** March/2016

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8154 **Exp:** 10/31/2019

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5IAC488 **Exp:** 3/31/2017
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5IAC304 **Exp:** March/2017
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5IAA164 **Exp:** January/2017
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0754 + 10min = 0804
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.29 in. x 25.4 = 769.366 mmHg - 15.169 = 754.197 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 11L100213

1. Specific Conductance: 1.413
2. ORP: 240.0
3. pH:
   - Point 1: 7.00
   - Point 2: 4.00
   - Point 3: 10.00
4. DO: 99.2%

Turbidity Meter Model/Serial Number: 1356-3711

RAMBOLL ENVIRON

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/11/2016

Calibrated by: J. Myers 0730

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** SAC 616 **Exp:** March 2016

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 9094 **Exp:** 7/31/2020

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAC488 **Exp:** 3/31/2017
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAC304 **Exp:** March 2017
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.

9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAA164 **Exp:** Jan 2017
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0730 + 10min = 0740
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.27 in. x 25.4 = 768.858 mmHg - 15.169 = 753.6891 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 13609

1. Specific Conductance: 1413 µs/cm
2. ORP: 240
3. pH:
   - Point 1: 7.0
   - Point 2: 4.0
   - Point 3: 9.97
4. DO: 99.2

Turbidity Meter Model/Serial Number: 1138-2811 (0184483) LaMotte 2020

RAMBOLL ENVIRON

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/11/16

Calibrated by: NZ

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 11689 **Exp:** 6/9/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8306 2407910 **Exp:** 7/16 NZ 11/19

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 2501789 **Exp:** 7/16
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 2407988 **Exp:** 7/16
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 2407910 **Exp:** 7/16
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0722 + 10min = 0732
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.26 in. x 25.4 = 768.604 mmHg - 15.169 = 753.4135 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 15C103565

1. Specific Conductance: 1.413 ms/cm
2. ORP: 240.5 mV
3. pH:
   - Point 1: 7.00
   - Point 2: 4.00
   - Point 3: 9.97
4. DO: 99.2 %

Turbidity Meter Model/Serial Number: 1392 - 3811

RAMBOLL ENVIRON

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/11/16

Calibrated by: H. Butterfield

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 11689 **Exp:** 6/9/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8306 **Exp:** 11/2019

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 2407988 **Exp:** 07/2016
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 2407910 **Exp:** 07/2016
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 2501789 **Exp:** 07/2016
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0722 + 10min = 0732
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.26 in. x 25.4 = 768.604 mmHg - 15.169 = 753.435 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 06C2653 AT

1. Specific Conductance: 1.413 mS/cm
2. ORP: 240.0
3. pH:
   - Point 1: 6.99
   - Point 2: 4.00
   - Point 3: 9.98
4. DO: 99.2

Turbidity Meter Model/Serial Number: 2020we / 1129-2811

RAMBOLL ENVIRON

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 11/12/16

Calibrated by: NZ

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 11689 **Exp:** 6/9/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8306 **Exp:** 11/19

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 2407988 **Exp:** 7/16
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 2407910 **Exp:** 7/16
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 2501789 **Exp:** 7/16
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0650 + 10min = 0700
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.16 in. x 25.4 = 766.064 mmHg - 15.169 = 750.895 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 15L103565

1. Specific Conductance: 1413 µs/cm
2. ORP: 240 mV
3. pH:
   - Point 1: 7.00
   - Point 2: 4.00
   - Point 3: ~~10.00~~ 9.96
4. DO: 98.8%

Turbidity Meter Model/Serial Number: 1392-3811

RAMBOLL ENVIRON

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/12/2016

Calibrated by: Lucy Cross

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 5GF509 **Exp:** 6/6/2016

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8154 **Exp:** 10/31/2019

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC488 **Exp:** 3/31/17
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #**5AC304 **Exp:** 03/2017
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #**5AA164 **Exp:** 01/2017
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0730 + 10min = 0740
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.19 in. x 25.4 = 766.826 mmHg - 15.169 = 751.657 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 11L100218

1. Specific Conductance: 1.413
2. ORP: 240.0
3. pH:
   - Point 1: 7.00
   - Point 2: 3.99
   - Point 3: 10.00
4. DO: 98.9%

Turbidity Meter Model/Serial Number: 1356 - 3711

RAMBOLL ENVIRON

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/12/2016

Calibrated by: J. Myers

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** SAL6116 **Exp:** March 2016

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 9095 **Exp:** 7/31/2020

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAC4488 **Exp:** 3/31/2017
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAC4484 (304) **Exp:** 31 March 2017
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAA164 **Exp:** Jun 2017
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0725 + 10min = 0735
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.19 in. x 25.4 = 766.826 mmHg - 15.169 = 751.657 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 13D9

1. Specific Conductance: 1,413 us/cm
2. ORP: 240
3. pH:
   - Point 1: 7.00
   - Point 2: 4.00
   - Point 3: 9.91
4. DO: 98.9%

Turbidity Meter Model/Serial Number: 1134-281 (01848448)

RAMBOLL ENVIRON

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/12/16

Calibrated by: Brecht

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** SAC1216 **Exp:** Mar/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8540 **Exp:** 1/2020

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAC488 **Exp:** 3/31/17
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAC304 **Exp:** Mar-17
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAA1604 **Exp:** Jan 17
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 705 + 10min = 715
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.20 in. x 25.4 = 767.08 mmHg - 15.169 = 751.911 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number:

1. Specific Conductance: 1.413
2. ORP: 240.0
3. pH:
   - Point 1: 7.0
   - Point 2: 4.0
   - Point 3:
4. DO: 98.9% 10.03

Turbidity Meter Model/Serial Number: 07F100306

RAMBOLL ENVIRON

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/12/16

Calibrated by: H. Butterfield

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 11689 **Exp:** 06/09/2016

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8306 2407988 HB **Exp:** 07/2016 HB 11/2019

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 2407988 **Exp:** 07/2016
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 2407910 **Exp:** 07/2016
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 2501789 **Exp:** 07/2016
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0645 + 10min = 0655
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.16 in. x 25.4 = 766.064 mmHg - 15.169 = 750.895 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 06C24053 AT

1. Specific Conductance: 1.413 mS/cm
2. ORP: 240.0
3. pH:
   - Point 1: 7.00
   - Point 2: 4.02
   - Point 3: 10.00
4. DO: 98.9%

Turbidity Meter Model/Serial Number: 2020 we / 1129-2811

RAMBOLL ENVIRON

Whirlpool Fort Smith Field Equipment Calibration Checklist

Date: 6/12/16

Calibrated by: Victoria Singleton

Turn on YSI. Note time in DO section, line 1!

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** SACC416 **Exp:** 3/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** ~~SAC488 US~~ 8154 **Exp:** ~~3/3/17 US~~ 10/31/19

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAC418 **Exp:** 3/31/17
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAC915 **Exp:** 3/17
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAC1164 **Exp:** 1/17
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0646 + 10min = 0656
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.19 in. x 25.4 = 766.826 mmHg - 15.169 = 751.656 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Field Notebook calibration entry:
YSI – Serial Number:

1. Specific Conductance: 1388
2. ORP: 248.8
3. pH:
   - Point 1: 6.97
   - Point 2: 3.94
   - Point 3: 9.95
4. DO:

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/12/16

Calibrated by: Wendy Stonestreet

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 5GJ1013 **Exp:** 10/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8540 **Exp:** 1/2020

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5GF287 **Exp:** 6/17
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC915 **Exp:** 3/17
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AE002 **Exp:** 5/16
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 740 + 10min = 750
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.19 in. x 25.4 = 766.826 mmHg - 15.169 = 751.657 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 12K101899

1. Specific Conductance: 1.413
2. ORP: 240.0
3. pH:
   - Point 1: 4.00
   - Point 2: 7.00
   - Point 3: 10.00
4. DO: 98.9%

Turbidity Meter Model/Serial Number:

RAMBOLL ENVIRON

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 11/12/16

Calibrated by: Richard Clemmer

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 5AC616 **Exp:** 3/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8154 **Exp:** 10/31/19

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC488 **Exp:** 3/31/17
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC304 **Exp:** 3/17
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AA164 **Exp:** 3/17
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0655 + 10min = 0755
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.19 in. x 25.4 = 766.826 mmHg - 15.169 = 751.65 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 05B1766AA

1. Specific Conductance: 1413
2. ORP: 240.0
3. pH:
   - Point 1: 6.99
   - Point 2: 4.00
   - Point 3: 9.93
4. DO: 98.9

Turbidity Meter Model/Serial Number: LaMotte 2020we 029750

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 7/13/16

Calibrated by: Michael Chemin

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 5AC616 **Exp:** 3/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8540 **Exp:** 1/2020

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5HC488 **Exp:** 3/31/17
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5HC304 **Exp:** 3/17
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5HA164 **Exp:** 3/17
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0657 + 10min = 0707
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.23 in. x 25.4 = 767.842 mmHg - 15.169 = 752.673 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number:

1. Specific Conductance: 1415
2. ORP: 240.0
3. pH:
   - Point 1: 7.00
   - Point 2: 3.99
   - Point 3: 10.04
4. DO: 99.0

Turbidity Meter Model/Serial Number: 2020we/029750

RAMBOLL ENVIRON

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/13/16

Calibrated by: H. Butterfield

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 11689 **Exp:** 06/09/2016

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8306 **Exp:** 11/2019

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 2407988 **Exp:** 07/2016
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 2407910 **Exp:** 07/2016
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 2501789 **Exp:** 07/2016
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0645 + 10min = 0655
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.20 in. x 25.4 = 767.08 mmHg - 15.169 = 751.911 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 06C2653 AT C

1. Specific Conductance: 1.413 mS/cm
2. ORP: 240.0
3. pH:
   - Point 1: 7.02
   - Point 2: 4.02
   - Point 3: 10.00
4. DO: 98.9

Turbidity Meter Model/Serial Number: 2020 we / 1129-2811

RAMBOLL ENVIRON

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/13/15

Calibrated by: C Bednar

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 5GF509 **Exp:** Le/Ne

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8540 **Exp:** 1/2020

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5GJ352 **Exp:** oct 2017
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5GJ249 **Exp:** Oct 2017
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AA104 **Exp:** Jan 17
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 700 + 10min = 710
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.20 in. x 25.4 = 767.08 mmHg - 15.169 = 751.911 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry: yes

YSI – Serial Number: #07F100306

1. Specific Conductance: 1913
2. ORP: 240.0
3. pH:
   - Point 1: 7.0
   - Point 2: 4.0
   - Point 3: 10.00
4. DO: 100%

Turbidity Meter Model/Serial Number: 22207

RAMBOLL ENVIRON

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/13/2016

Calibrated by: Wendy Stonestreet

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 5GJ1013 **Exp:** 10/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8540 **Exp:** 9/2020

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5GF287 **Exp:** 06/17
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC915 **Exp:** 3/17
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AE002 **Exp:** 5/16
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 1640 + 10min = 1650
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.23 in. x 25.4 = 767.842 mmHg - 15.169 = 752.673 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 12K101899

1. Specific Conductance: 1413
2. ORP: 240.0
3. pH:
   - Point 1: 4.00
   - Point 2: 7.00
   - Point 3: 9.90
4. DO: 99.0%

Turbidity Meter Model/Serial Number:

RAMBOLL ENVIRON

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/13/2016

Calibrated by: Lucy Cross

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 5AC616 **Exp:** 03/2016

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 7760 **Exp:** 06/2019

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4AD690 **Exp:** 4/30/2016
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AC304 **Exp:** 03/2017
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 5AA164 **Exp:** 01/2017
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0755 + 10min = 0805
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.23 in. x 25.4 = 767.842 mmHg - 15.169 = 752.673 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 11L100218

1. Specific Conductance: 1.413
2. ORP: 240.0
3. pH:
   - Point 1: 7.00
   - Point 2: 4.00
   - Point 3: 10.00
4. DO: 99.1%

Turbidity Meter Model/Serial Number: 1356-3711

RAMBOLL ENVIRON

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/13/2016

Calibrated by: J. Myers 0655

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** SAC6/16 **Exp:** March 16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 9099 **Exp:** 7/31/2020

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAC488 **Exp:** 3/31/2017
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAC304 **Exp:** March 17
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** SHA164 **Exp:** Jan. 17
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0655 + 10min = 0705
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.22 in. x 25.4 = 767.59 mmHg - 15.169 = 752.419 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 13609

1. Specific Conductance: 1413 us/cm
2. ORP: 240
3. pH:
   - Point 1: 7.00
   - Point 2: 4.00
   - Point 3: 9.98
4. DO: 99.0%

Turbidity Meter Model/Serial Number: 1138 - 2911

RAMBOLL ENVIRON

Whirlpool Fort Smith Field Equipment Calibration Checklist

Date: 1/13/16

Calibrated by: Victoria Siegler

Turn on YSI. Note time in DO section, line 1!

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** SAC416 **Exp:** 3/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below. 1/2020
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** ~~SAC458~~ 8540 US **Exp:** ~~3/13/17~~ US

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** ~~SAC304~~ SAC458 **Exp:** 3/17 US
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAB304 **Exp:** 3/17
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** SAA164 **Exp:** 1/17
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0040 + 10min = 0050
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.21 in. x 25.4 = 767.33 mmHg - 15.169 = 752.17 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. **Press "calibrate" after *30 seconds* of no significant change in DO.** Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Field Notebook calibration entry:
YSI – Serial Number:

1. Specific Conductance: 1407
2. ORP: 273.9
3. pH:
   - Point 1: 7.02
   - Point 2: 3.97
   - Point 3: 9.95
4. DO: 11.79

Whirlpool Ft. Smith Field Equipment Calibration Checklist

Date: 1/13/15

Calibrated by: NZ

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** SAC916 **Exp:** 3/16

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 8306 2407988 NZ **Exp:** 7/16 NZ 11/19

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 2407988 **Exp:** 7/16
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 2407910 **Exp:** 7/16
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 250789 **Exp:** 7/16
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0650 + 10min = 0700
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.26 in. x 25.4 = 768.80 mmHg - 15.169 = 751,911 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 15C103505

1. Specific Conductance: 1413 µS/cm
2. ORP: 240 mV
3. pH:
   - Point 1: 7.00
   - Point 2: 4.00
   - Point 3: 9.99
4. DO: 98.9%

Turbidity Meter Model/Serial Number: 1392-3811

RAMBOLL ENVIRON

Appendix B

Laboratory Analytical Data

Pace Analytical Services, Inc.
9608 Loiret Blvd.
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(913)599-5665

January 27, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60210853

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 08, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60210853

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

Dallas Certification IDs:

400 West Bethany Dr Suite 190, Allen, TX 75013
EPA# TX00074
Texas Certification #: T104704232-15-12
Texas Certification #: T104704232-14-8
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 2014-055
Louisiana Certification #: 02007

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60210853

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60210853001	**MW-23-201601**	Water	01/07/16 12:55	01/08/16 08:45
60210853002	**MW-24-201601**	Water	01/07/16 10:10	01/08/16 08:45
60210853003	**MW-83-201601**	Water	01/07/16 10:15	01/08/16 08:45
60210853004	**MW-84-201601**	Water	01/07/16 11:00	01/08/16 08:45
60210853005	**TRIP BLANK-01**	Water	01/07/16 11:00	01/08/16 08:45
60210853011	**MW-23-201601**	Water	01/07/16 12:55	01/08/16 08:45
60210853012	**MW-24-201601**	Water	01/07/16 10:10	01/08/16 08:45
60210853013	**MW-83-201601**	Water	01/07/16 10:15	01/08/16 08:45
60210853014	**MW-84-201601**	Water	01/07/16 11:00	01/08/16 08:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210853

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60210853001	**MW-23-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210853002	**MW-24-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210853003	**MW-83-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210853004	**MW-84-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210853005	**TRIP BLANK-01**	EPA 5030B/8260	PGH	38	PASI-K
60210853011	**MW-23-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210853012	**MW-24-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210853013	**MW-83-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210853

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210853014	**MW-84-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210853

Method: **EPA 8015 - Alcohol**
Description: Alcohol by Direct Inject GCFID
Client: Environ_AR
Date: January 27, 2016

General Information:
4 samples were analyzed for EPA 8015 - Alcohol. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210853

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Environ_AR
Date: January 27, 2016

General Information:
4 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210853

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 27, 2016

General Information:
5 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: MSV/73671

B: Analyte was detected in the associated method blank.
- BLANK for HBN 415066 [MSV/7367 (Lab ID: 1694414)
  - Chloromethane

QC Batch: MSV/73679

B: Analyte was detected in the associated method blank.
- BLANK for HBN 415124 [MSV/7367 (Lab ID: 1694839)
  - Carbon disulfide
  - Chloromethane

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73671

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73679

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210853

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 27, 2016

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210853

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Environ_AR
Date: January 27, 2016

General Information:
4 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/59508

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 1695544)
  - Alkalinity,Bicarbonate (CaCO3)

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210853

Method: **SM 3500-Fe B#4**
Description: Iron, Ferric (Calculation)
Client: Environ_AR
Date: January 27, 2016

General Information:
4 samples were analyzed for SM 3500-Fe B#4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Ferrous Fe performed in the field
- QC Batch: WET / 59729

Ferrous Fe perfromed in the field
- QC Batch: WET / 59750

Analyte Comments:

QC Batch: WET/59750

1e: Total Iron was confirmed.
- MW-83-201601 (Lab ID: 60210853013)
  - Iron, Ferric

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210853

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Environ_AR
Date: January 27, 2016

General Information:
4 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-23-201601 (Lab ID: 60210853011)
- MW-24-201601 (Lab ID: 60210853012)
- MW-83-201601 (Lab ID: 60210853013)
- MW-84-201601 (Lab ID: 60210853014)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Field pH
- QC Batch: WET / 59733

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210853

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Environ_AR
Date: January 27, 2016

General Information:
4 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210853

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Environ_AR
Date: January 27, 2016

General Information:
4 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37670

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210856004,60210857001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1695509)
  - Sulfate
- MSD (Lab ID: 1695510)
  - Sulfate

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210853

Method: **EPA 350.1**
Description: 350.1 Ammonia
Client: Environ_AR
Date: January 27, 2016

General Information:
4 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37682

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210826001,60210856001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1695602)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210853

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: Environ_AR
Date: January 27, 2016

General Information:
4 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210853

Method: **SM 4500-CO2 D**
Description: Total Carbon Dioxide Calc
Client: Environ_AR
Date: January 27, 2016

General Information:
4 samples were analyzed for SM 4500-CO2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210853

Method: **SM 5310C**
Description: 5310C TOC
Client: Environ_AR
Date: January 27, 2016

General Information:
4 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210853

Method: **SM 4500-P E**
Description: SM4500P-E, Total Phosphorus
Client: Environ_AR
Date: January 27, 2016

General Information:
4 samples were analyzed for SM 4500-P E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with SM4500-P B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210853

Sample: MW-23-201601 **Lab ID: 60210853001** Collected: 01/07/16 12:55 Received: 01/08/16 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**36.1**	ug/L	10.0	1.9	1		01/08/16 15:30	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/08/16 15:30	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/08/16 15:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/08/16 15:30	75-25-2	
Bromomethane	**1.7J**	ug/L	5.0	0.16	1		01/08/16 15:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/08/16 15:30	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/08/16 15:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/08/16 15:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/08/16 15:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/08/16 15:30	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/08/16 15:30	67-66-3	
Chloromethane	**2.5**	ug/L	1.0	0.080	1		01/08/16 15:30	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/08/16 15:30	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/08/16 15:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/08/16 15:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/08/16 15:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/08/16 15:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/08/16 15:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/08/16 15:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/08/16 15:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/08/16 15:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/08/16 15:30	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/08/16 15:30	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/08/16 15:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/08/16 15:30	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/08/16 15:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/08/16 15:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/08/16 15:30	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/08/16 15:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/08/16 15:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/08/16 15:30	79-00-5	
Trichloroethene	**0.48J**	ug/L	1.0	0.17	1		01/08/16 15:30	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/08/16 15:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/08/16 15:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/08/16 15:30	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/08/16 15:30	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		01/08/16 15:30	2037-26-5	
Preservation pH	**7.0**		0.10	0.10	1		01/08/16 15:30		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210853

Sample: MW-24-201601 **Lab ID: 60210853002** Collected: 01/07/16 10:10 Received: 01/08/16 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**82.2**	ug/L	10.0	1.9	1		01/08/16 16:28	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/08/16 16:28	71-43-2	
Bromodichloromethane	**0.51J**	ug/L	1.0	0.19	1		01/08/16 16:28	75-27-4	
Bromoform	**16.8**	ug/L	1.0	0.070	1		01/08/16 16:28	75-25-2	
Bromomethane	**49.8**	ug/L	5.0	0.16	1		01/08/16 16:28	74-83-9	
2-Butanone (MEK)	**3.3J**	ug/L	10.0	0.59	1		01/08/16 16:28	78-93-3	
Carbon disulfide	**0.33J**	ug/L	5.0	0.12	1		01/08/16 16:28	75-15-0	B
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/08/16 16:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/08/16 16:28	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/08/16 16:28	75-00-3	
Chloroform	**0.44J**	ug/L	1.0	0.14	1		01/08/16 16:28	67-66-3	
Chloromethane	**53.4**	ug/L	1.0	0.080	1		01/08/16 16:28	74-87-3	
Dibromochloromethane	**1.1**	ug/L	1.0	0.21	1		01/08/16 16:28	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/08/16 16:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/08/16 16:28	107-06-2	
1,1-Dichloroethene	**0.24J**	ug/L	1.0	0.20	1		01/08/16 16:28	75-35-4	
cis-1,2-Dichloroethene	**0.48J**	ug/L	1.0	0.080	1		01/08/16 16:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/08/16 16:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/08/16 16:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/08/16 16:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/08/16 16:28	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/08/16 16:28	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/08/16 16:28	591-78-6	
Methylene chloride	**0.45J**	ug/L	1.0	0.15	1		01/08/16 16:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/08/16 16:28	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/08/16 16:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/08/16 16:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/08/16 16:28	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/08/16 16:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/08/16 16:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/08/16 16:28	79-00-5	
Trichloroethene	**49.3**	ug/L	1.0	0.17	1		01/08/16 16:28	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/08/16 16:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/08/16 16:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	80-120		1		01/08/16 16:28	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120		1		01/08/16 16:28	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		01/08/16 16:28	2037-26-5	
Preservation pH	**3.0**		0.10	0.10	1		01/08/16 16:28		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210853

Sample: MW-83-201601 **Lab ID: 60210853003** Collected: 01/07/16 10:15 Received: 01/08/16 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**30.3**	ug/L	10.0	1.9	1		01/08/16 14:18	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/08/16 14:18	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/08/16 14:18	75-27-4	
Bromoform	**4.4**	ug/L	1.0	0.070	1		01/08/16 14:18	75-25-2	
Bromomethane	**17.4**	ug/L	5.0	0.16	1		01/08/16 14:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/08/16 14:18	78-93-3	
Carbon disulfide	**0.16J**	ug/L	5.0	0.12	1		01/08/16 14:18	75-15-0	B
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/08/16 14:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/08/16 14:18	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/08/16 14:18	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/08/16 14:18	67-66-3	
Chloromethane	**4.2**	ug/L	1.0	0.080	1		01/08/16 14:18	74-87-3	
Dibromochloromethane	**0.25J**	ug/L	1.0	0.21	1		01/08/16 14:18	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/08/16 14:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/08/16 14:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/08/16 14:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/08/16 14:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/08/16 14:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/08/16 14:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/08/16 14:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/08/16 14:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/08/16 14:18	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/08/16 14:18	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/08/16 14:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/08/16 14:18	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/08/16 14:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/08/16 14:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/08/16 14:18	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/08/16 14:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/08/16 14:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/08/16 14:18	79-00-5	
Trichloroethene	**1.1**	ug/L	1.0	0.17	1		01/08/16 14:18	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/08/16 14:18	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/08/16 14:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	80-120		1		01/08/16 14:18	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/08/16 14:18	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		01/08/16 14:18	2037-26-5	
Preservation pH	**3.0**		0.10	0.10	1		01/08/16 14:18		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210853

Sample: MW-84-201601 **Lab ID: 60210853004** Collected: 01/07/16 11:00 Received: 01/08/16 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**32.2**	ug/L	10.0	1.9	1		01/08/16 15:45	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/08/16 15:45	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/08/16 15:45	75-27-4	
Bromoform	**5.6**	ug/L	1.0	0.070	1		01/08/16 15:45	75-25-2	
Bromomethane	**3.8J**	ug/L	5.0	0.16	1		01/08/16 15:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/08/16 15:45	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/08/16 15:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/08/16 15:45	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/08/16 15:45	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/08/16 15:45	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/08/16 15:45	67-66-3	
Chloromethane	**10.5**	ug/L	1.0	0.080	1		01/08/16 15:45	74-87-3	
Dibromochloromethane	**0.27J**	ug/L	1.0	0.21	1		01/08/16 15:45	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/08/16 15:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/08/16 15:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/08/16 15:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/08/16 15:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/08/16 15:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/08/16 15:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/08/16 15:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/08/16 15:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/08/16 15:45	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/08/16 15:45	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/08/16 15:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/08/16 15:45	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/08/16 15:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/08/16 15:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/08/16 15:45	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/08/16 15:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/08/16 15:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/08/16 15:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/08/16 15:45	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/08/16 15:45	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/08/16 15:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/08/16 15:45	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/08/16 15:45	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/08/16 15:45	2037-26-5	
Preservation pH	**3.0**		0.10	0.10	1		01/08/16 15:45		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210853

Sample: TRIP BLANK-01 **Lab ID: 60210853005** Collected: 01/07/16 11:00 Received: 01/08/16 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**4.1J**	ug/L	10.0	1.9	1		01/08/16 14:32	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/08/16 14:32	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/08/16 14:32	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/08/16 14:32	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/08/16 14:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/08/16 14:32	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/08/16 14:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/08/16 14:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/08/16 14:32	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/08/16 14:32	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/08/16 14:32	67-66-3	
Chloromethane	**0.16J**	ug/L	1.0	0.080	1		01/08/16 14:32	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/08/16 14:32	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/08/16 14:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/08/16 14:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/08/16 14:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/08/16 14:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/08/16 14:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/08/16 14:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/08/16 14:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/08/16 14:32	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/08/16 14:32	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/08/16 14:32	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/08/16 14:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/08/16 14:32	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/08/16 14:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/08/16 14:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/08/16 14:32	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/08/16 14:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/08/16 14:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/08/16 14:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/08/16 14:32	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/08/16 14:32	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/08/16 14:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/08/16 14:32	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120		1		01/08/16 14:32	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		01/08/16 14:32	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/08/16 14:32		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210853

Sample: MW-23-201601 **Lab ID: 60210853011** Collected: 01/07/16 12:55 Received: 01/08/16 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 11:44	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**267**	ug/L	50.0	9.0	1	01/08/16 14:10	01/14/16 18:54	7439-89-6	
Manganese	**23.5**	ug/L	5.0	2.4	1	01/08/16 14:10	01/14/16 18:54	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/13/16 14:27		
Alkalinity, Carbonate (CaCO3)	**487**	mg/L	20.0	2.0	1		01/13/16 14:27		
Alkalinity, Total as CaCO3	**635**	mg/L	20.0	2.0	1		01/13/16 14:27		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.27**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**11.5**	Std. Units	0.10	0.10	1		01/07/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/12/16 14:05	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**263**	mg/L	20.0	10.0	20		01/12/16 11:56	16887-00-6	
Sulfate	**1020**	mg/L	100	23.7	100		01/12/16 20:06	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.38**	mg/L	0.10	0.046	1		01/12/16 13:12	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.2**	mg/L	0.10	0.014	1		01/08/16 13:56		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/08/16 13:56		
Nitrogen, NO2 plus NO3	**1.2**	mg/L	0.10	0.014	1		01/08/16 13:56		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**214**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**1.6**	mg/L	1.0	0.50	1		01/14/16 16:42	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.75**	mg/L	0.030	0.010	1	01/14/16 08:54	01/14/16 16:01		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210853

Sample: MW-24-201601 **Lab ID: 60210853012** Collected: 01/07/16 10:10 Received: 01/08/16 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 13:02	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**51.2**	ug/L	50.0	9.0	1	01/08/16 14:10	01/14/16 18:56	7439-89-6	
Manganese	**343**	ug/L	5.0	2.4	1	01/08/16 14:10	01/14/16 18:56	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/13/16 14:41		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/13/16 14:41		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/13/16 14:41		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**3.5**	Std. Units	0.10	0.10	1		01/07/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/12/16 14:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**313**	mg/L	20.0	10.0	20		01/12/16 13:08	16887-00-6	
Sulfate	**1190**	mg/L	100	23.7	100		01/12/16 12:25	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/12/16 13:13	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.5**	mg/L	0.10	0.014	1		01/08/16 13:57		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/08/16 13:57		
Nitrogen, NO2 plus NO3	**1.5**	mg/L	0.10	0.014	1		01/08/16 13:57		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.58J**	mg/L	1.0	0.50	1		01/14/16 17:21	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.18**	mg/L	0.030	0.010	1	01/14/16 08:54	01/14/16 16:01		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210853

Sample: MW-83-201601 **Lab ID: 60210853013** Collected: 01/07/16 10:15 Received: 01/08/16 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 13:14	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**105**	ug/L	50.0	9.0	1	01/08/16 14:10	01/14/16 18:59	7439-89-6	
Manganese	**4.0J**	ug/L	5.0	2.4	1	01/08/16 14:10	01/14/16 18:59	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**190**	mg/L	20.0	2.0	1		01/13/16 14:46		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/13/16 14:46		
Alkalinity, Total as CaCO3	**190**	mg/L	20.0	2.0	1		01/13/16 14:46		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/27/16 00:00	7439-89-6	1e
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.6**	Std. Units	0.10	0.10	1		01/09/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/12/16 14:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**226**	mg/L	20.0	10.0	20		01/12/16 13:22	16887-00-6	
Sulfate	**1900**	mg/L	100	23.7	100		01/12/16 13:37	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.45**	mg/L	0.10	0.046	1		01/12/16 13:14	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.1**	mg/L	0.10	0.014	1		01/08/16 13:58		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/08/16 13:58		
Nitrogen, NO2 plus NO3	**2.1**	mg/L	0.10	0.014	1		01/08/16 13:58		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**274**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.66J**	mg/L	1.0	0.50	1		01/14/16 17:35	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.62**	mg/L	0.030	0.010	1	01/14/16 08:54	01/14/16 16:02		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210853

Sample: MW-84-201601 **Lab ID: 60210853014** Collected: 01/07/16 11:00 Received: 01/08/16 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 13:25	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**63.3**	ug/L	50.0	9.0	1	01/08/16 14:10	01/14/16 19:01	7439-89-6	
Manganese	ND	ug/L	5.0	2.4	1	01/08/16 14:10	01/14/16 19:01	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**232**	mg/L	20.0	2.0	1		01/13/16 14:51		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/13/16 14:51		
Alkalinity, Total as CaCO3	**232**	mg/L	20.0	2.0	1		01/13/16 14:51		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**7.1**	Std. Units	0.10	0.10	1		01/07/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	**0.018J**	mg/L	0.050	0.012	1		01/12/16 14:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**281**	mg/L	20.0	10.0	20		01/12/16 13:51	16887-00-6	
Sulfate	**3190**	mg/L	200	47.3	200		01/12/16 14:06	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.47**	mg/L	0.10	0.046	1		01/12/16 13:15	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**3.3**	mg/L	0.10	0.014	1		01/08/16 13:59		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/08/16 13:59		
Nitrogen, NO2 plus NO3	**3.3**	mg/L	0.10	0.014	1		01/08/16 13:59		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**244**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.75J**	mg/L	1.0	0.50	1		01/14/16 17:48	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.58**	mg/L	0.030	0.010	1	01/14/16 08:54	01/14/16 16:02		

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210853

QC Batch: GCSV/4868 Analysis Method: EPA 8015 - Alcohol
QC Batch Method: EPA 8015 - Alcohol Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60210853011, 60210853012, 60210853013, 60210853014

METHOD BLANK: 194580 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/14/16 10:24	

LABORATORY CONTROL SAMPLE: 194581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	87400	87	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194582 194583

Parameter	Units	60210853011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	86700	70800	87	71	40-140	20	40	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210853

QC Batch: MPRP/34521 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60210853011, 60210853012, 60210853013, 60210853014

METHOD BLANK: 1694954 Matrix: Water
Associated Lab Samples: 60210853011, 60210853012, 60210853013, 60210853014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	9.0	01/14/16 18:36	
Manganese	ug/L	ND	5.0	2.4	01/14/16 18:36	

LABORATORY CONTROL SAMPLE: 1694955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10000	100	80-120	
Manganese	ug/L	1000	947	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1694956 1694957

Parameter	Units	60210797001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	93.8	10000	10000	9880	9950	98	99	75-125	1	20	
Manganese	ug/L	814	1000	1000	1750	1750	94	94	75-125	0	20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210853

QC Batch: MSV/73671
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210853005

METHOD BLANK: 1694414
Matrix: Water
Associated Lab Samples: 60210853005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/08/16 13:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/08/16 13:55	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/08/16 13:55	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/08/16 13:55	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/08/16 13:55	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/08/16 13:55	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/08/16 13:55	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/08/16 13:55	
2-Hexanone	ug/L	ND	10.0	1.2	01/08/16 13:55	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/08/16 13:55	
Acetone	ug/L	ND	10.0	1.9	01/08/16 13:55	
Benzene	ug/L	ND	1.0	0.060	01/08/16 13:55	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/08/16 13:55	
Bromoform	ug/L	ND	1.0	0.070	01/08/16 13:55	
Bromomethane	ug/L	ND	5.0	0.16	01/08/16 13:55	
Carbon disulfide	ug/L	0.15J	5.0	0.12	01/08/16 13:55	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/08/16 13:55	
Chlorobenzene	ug/L	ND	1.0	0.21	01/08/16 13:55	
Chloroethane	ug/L	ND	1.0	0.15	01/08/16 13:55	
Chloroform	ug/L	ND	1.0	0.14	01/08/16 13:55	
Chloromethane	ug/L	0.25J	1.0	0.080	01/08/16 13:55	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/08/16 13:55	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/08/16 13:55	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/08/16 13:55	
Ethylbenzene	ug/L	ND	1.0	0.18	01/08/16 13:55	
Methylene chloride	ug/L	ND	1.0	0.15	01/08/16 13:55	
Styrene	ug/L	ND	1.0	0.12	01/08/16 13:55	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/08/16 13:55	
Toluene	ug/L	ND	1.0	0.17	01/08/16 13:55	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/08/16 13:55	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/08/16 13:55	
Trichloroethene	ug/L	ND	1.0	0.17	01/08/16 13:55	
Vinyl chloride	ug/L	ND	1.0	0.13	01/08/16 13:55	
Xylene (Total)	ug/L	ND	3.0	0.42	01/08/16 13:55	
1,2-Dichloroethane-d4 (S)	%	101	80-120		01/08/16 13:55	
4-Bromofluorobenzene (S)	%	98	80-120		01/08/16 13:55	
Toluene-d8 (S)	%	99	80-120		01/08/16 13:55	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210853

LABORATORY CONTROL SAMPLE: 1694415

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.8	94	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	16.6	83	73-121	
1,1,2-Trichloroethane	ug/L	20	16.2	81	80-120	
1,1-Dichloroethane	ug/L	20	20.3	102	80-120	
1,1-Dichloroethene	ug/L	20	16.8	84	80-120	
1,2-Dichloroethane	ug/L	20	19.1	95	81-120	
1,2-Dichloropropane	ug/L	20	18.9	94	80-120	
2-Butanone (MEK)	ug/L	100	103	103	67-122	
2-Hexanone	ug/L	100	93.8	94	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	76-120	
Acetone	ug/L	100	112	112	72-120	
Benzene	ug/L	20	20.3	102	80-120	
Bromodichloromethane	ug/L	20	19.4	97	80-120	
Bromoform	ug/L	20	18.1	91	73-138	
Bromomethane	ug/L	20	22.1	110	38-137	
Carbon disulfide	ug/L	20	19.7	99	71-129	
Carbon tetrachloride	ug/L	20	18.5	92	67-146	
Chlorobenzene	ug/L	20	18.9	95	80-120	
Chloroethane	ug/L	20	19.2	96	76-120	
Chloroform	ug/L	20	17.7	89	80-120	
Chloromethane	ug/L	20	18.6	93	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	80-120	
Dibromochloromethane	ug/L	20	17.8	89	80-126	
Ethylbenzene	ug/L	20	19.8	99	80-120	
Methylene chloride	ug/L	20	18.6	93	80-120	
Styrene	ug/L	20	20.7	104	80-123	
Tetrachloroethene	ug/L	20	17.3	86	80-123	
Toluene	ug/L	20	18.5	93	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.9	95	80-120	
trans-1,3-Dichloropropene	ug/L	20	18.5	93	80-129	
Trichloroethene	ug/L	20	18.2	91	80-120	
Vinyl chloride	ug/L	20	21.5	107	62-125	
Xylene (Total)	ug/L	60	60.9	101	80-120	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			95	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210853

QC Batch: MSV/73679 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 7 day
Associated Lab Samples: 60210853001, 60210853002, 60210853003, 60210853004

METHOD BLANK: 1694839 Matrix: Water
Associated Lab Samples: 60210853001, 60210853002, 60210853003, 60210853004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/08/16 13:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/08/16 13:55	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/08/16 13:55	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/08/16 13:55	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/08/16 13:55	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/08/16 13:55	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/08/16 13:55	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/08/16 13:55	
2-Hexanone	ug/L	ND	10.0	1.2	01/08/16 13:55	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/08/16 13:55	
Acetone	ug/L	ND	10.0	1.9	01/08/16 13:55	
Benzene	ug/L	ND	1.0	0.060	01/08/16 13:55	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/08/16 13:55	
Bromoform	ug/L	ND	1.0	0.070	01/08/16 13:55	
Bromomethane	ug/L	ND	5.0	0.16	01/08/16 13:55	
Carbon disulfide	ug/L	0.15J	5.0	0.12	01/08/16 13:55	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/08/16 13:55	
Chlorobenzene	ug/L	ND	1.0	0.21	01/08/16 13:55	
Chloroethane	ug/L	ND	1.0	0.15	01/08/16 13:55	
Chloroform	ug/L	ND	1.0	0.14	01/08/16 13:55	
Chloromethane	ug/L	0.25J	1.0	0.080	01/08/16 13:55	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/08/16 13:55	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/08/16 13:55	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/08/16 13:55	
Ethylbenzene	ug/L	ND	1.0	0.18	01/08/16 13:55	
Methylene chloride	ug/L	ND	1.0	0.15	01/08/16 13:55	
Styrene	ug/L	ND	1.0	0.12	01/08/16 13:55	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/08/16 13:55	
Toluene	ug/L	ND	1.0	0.17	01/08/16 13:55	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/08/16 13:55	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/08/16 13:55	
Trichloroethene	ug/L	ND	1.0	0.17	01/08/16 13:55	
Vinyl chloride	ug/L	ND	1.0	0.13	01/08/16 13:55	
Xylene (Total)	ug/L	ND	3.0	0.42	01/08/16 13:55	
1,2-Dichloroethane-d4 (S)	%	101	80-120		01/08/16 13:55	
4-Bromofluorobenzene (S)	%	98	80-120		01/08/16 13:55	
Toluene-d8 (S)	%	99	80-120		01/08/16 13:55	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210853

LABORATORY CONTROL SAMPLE: 1694840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.8	94	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	16.6	83	73-121	
1,1,2-Trichloroethane	ug/L	20	16.2	81	80-120	
1,1-Dichloroethane	ug/L	20	20.3	102	80-120	
1,1-Dichloroethene	ug/L	20	16.8	84	80-120	
1,2-Dichloroethane	ug/L	20	19.1	95	81-120	
1,2-Dichloropropane	ug/L	20	18.9	94	80-120	
2-Butanone (MEK)	ug/L	100	103	103	67-122	
2-Hexanone	ug/L	100	93.8	94	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	76-120	
Acetone	ug/L	100	112	112	72-120	
Benzene	ug/L	20	20.3	102	80-120	
Bromodichloromethane	ug/L	20	19.4	97	80-120	
Bromoform	ug/L	20	18.1	91	73-138	
Bromomethane	ug/L	20	22.1	110	38-137	
Carbon disulfide	ug/L	20	19.7	99	71-129	
Carbon tetrachloride	ug/L	20	18.5	92	67-146	
Chlorobenzene	ug/L	20	18.9	95	80-120	
Chloroethane	ug/L	20	19.2	96	76-120	
Chloroform	ug/L	20	17.7	89	80-120	
Chloromethane	ug/L	20	18.6	93	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	80-120	
Dibromochloromethane	ug/L	20	17.8	89	80-126	
Ethylbenzene	ug/L	20	19.8	99	80-120	
Methylene chloride	ug/L	20	18.6	93	80-120	
Styrene	ug/L	20	20.7	104	80-123	
Tetrachloroethene	ug/L	20	17.3	86	80-123	
Toluene	ug/L	20	18.5	93	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.9	95	80-120	
trans-1,3-Dichloropropene	ug/L	20	18.5	93	80-129	
Trichloroethene	ug/L	20	18.2	91	80-120	
Vinyl chloride	ug/L	20	21.5	107	62-125	
Xylene (Total)	ug/L	60	60.9	101	80-120	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			95	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210853

QC Batch: WET/59508 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60210853011, 60210853012, 60210853013, 60210853014

METHOD BLANK: 1695542 Matrix: Water
Associated Lab Samples: 60210853011, 60210853012, 60210853013, 60210853014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/13/16 12:21	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/13/16 12:21	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/13/16 12:21	

LABORATORY CONTROL SAMPLE: 1695543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	546	109	90-110	

SAMPLE DUPLICATE: 1695544

Parameter	Units	60210883002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	1590	1580			
Alkalinity, Total as CaCO3	mg/L	1650	1930			
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	349			D6

SAMPLE DUPLICATE: 1695545

Parameter	Units	60210763003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	102	101	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	102	101	1	10	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210853

QC Batch: WET/59509 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60210853011, 60210853012, 60210853013, 60210853014

METHOD BLANK: 1695546 Matrix: Water
Associated Lab Samples: 60210853011, 60210853012, 60210853013, 60210853014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/12/16 13:59	

LABORATORY CONTROL SAMPLE: 1695547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.52	103	80-120	

MATRIX SPIKE SAMPLE: 1695548

Parameter	Units	10335385005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.48	96	75-125	

SAMPLE DUPLICATE: 1695549

Parameter	Units	60210763003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1695550

Parameter	Units	60210853012 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210853

QC Batch: WETA/37670 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60210853011, 60210853012, 60210853013, 60210853014

METHOD BLANK: 1695507 Matrix: Water
Associated Lab Samples: 60210853011, 60210853012, 60210853013, 60210853014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/12/16 09:32	
Sulfate	mg/L	ND	1.0	0.25	01/12/16 09:32	

LABORATORY CONTROL SAMPLE: 1695508

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	95	90-110	
Sulfate	mg/L	5	4.8	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1695509 1695510

Parameter	Units	60210856004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	250	250	232	230	88	87	80-120	1	15	
Sulfate	mg/L	578	250	250	766	759	75	72	80-120	1	15	M1

MATRIX SPIKE SAMPLE: 1695511

Parameter	Units	60210857001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1510	1000	2460	94	80-120	
Sulfate	mg/L	ND	1000	1040	90	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210853

QC Batch: WETA/37682 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60210853011, 60210853012, 60210853013, 60210853014

METHOD BLANK: 1695600 Matrix: Water
Associated Lab Samples: 60210853011, 60210853012, 60210853013, 60210853014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/12/16 12:53	

LABORATORY CONTROL SAMPLE: 1695601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1695602

Parameter	Units	60210826001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.49	2	2.2	85	90-110	M1

MATRIX SPIKE SAMPLE: 1695603

Parameter	Units	60210856001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	95	90-110	

SAMPLE DUPLICATE: 1695604

Parameter	Units	60210856002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	0.15	2	18	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210853

QC Batch: WETA/37650 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60210853011, 60210853012, 60210853013, 60210853014

METHOD BLANK: 1694927 Matrix: Water
Associated Lab Samples: 60210853011, 60210853012, 60210853013, 60210853014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.014	01/08/16 13:54	
Nitrogen, Nitrite	mg/L	ND	0.10	0.023	01/08/16 13:54	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	0.014	01/08/16 13:54	

LABORATORY CONTROL SAMPLE: 1694928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.7	104	85-115	
Nitrogen, Nitrite	mg/L	.4	0.40	99	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.1	103	90-110	

MATRIX SPIKE SAMPLE: 1694929

Parameter	Units	60210853011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.2	1.6	2.8	99	85-115	
Nitrogen, Nitrite	mg/L	ND	.4	0.41	103	90-110	
Nitrogen, NO2 plus NO3	mg/L	1.2	2	3.2	100	90-110	

SAMPLE DUPLICATE: 1694930

Parameter	Units	60210853014 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	3.3	3.3	0	20	
Nitrogen, Nitrite	mg/L	ND	ND		20	
Nitrogen, NO2 plus NO3	mg/L	3.3	3.3	0	20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210853

QC Batch: WETA/37720 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60210853011, 60210853012, 60210853013, 60210853014

METHOD BLANK: 1696967 Matrix: Water
Associated Lab Samples: 60210853011, 60210853012, 60210853013, 60210853014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/14/16 12:09	

LABORATORY CONTROL SAMPLE: 1696968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.6	113	80-120	

MATRIX SPIKE SAMPLE: 1696969

Parameter	Units	60210763003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	5	6.4	118	80-120	

SAMPLE DUPLICATE: 1696970

Parameter	Units	60210763004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	ND	ND		25	

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(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210853

QC Batch: WETA/10233 Analysis Method: SM 4500-P E
QC Batch Method: SM4500-P B Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60210853011, 60210853012, 60210853013, 60210853014

METHOD BLANK: 194859 Matrix: Water
Associated Lab Samples: 60210853011, 60210853012, 60210853013, 60210853014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.014J	0.030	0.010	01/14/16 15:52	

LABORATORY CONTROL SAMPLE: 194860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.4	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194861 194862

Parameter	Units	7536279002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.032	1.5	1.5	1.4	1.4	88	88	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194863 194864

Parameter	Units	7536858001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.077	1.5	1.5	1.4	1.4	87	89	80-120	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60210853

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-D	Pace Analytical Services - Dallas
PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73671
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/73679
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: WET/59729
[1] Ferrous Fe performed in the field
Batch: WET/59733
[1] Field pH
Batch: WET/59750
[1] Ferrous Fe perfromed in the field

ANALYTE QUALIFIERS

1e	Total Iron was confirmed.
B	Analyte was detected in the associated method blank.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210853

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210853011	**MW-23-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210853012	**MW-24-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210853013	**MW-83-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210853014	**MW-84-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210853011	**MW-23-201601**	EPA 3010	MPRP/34521	EPA 6010	ICP/25333
60210853012	**MW-24-201601**	EPA 3010	MPRP/34521	EPA 6010	ICP/25333
60210853013	**MW-83-201601**	EPA 3010	MPRP/34521	EPA 6010	ICP/25333
60210853014	**MW-84-201601**	EPA 3010	MPRP/34521	EPA 6010	ICP/25333
60210853005	**TRIP BLANK-01**	EPA 5030B/8260	MSV/73671		
60210853001	**MW-23-201601**	EPA 5030B/8260	MSV/73679		
60210853002	**MW-24-201601**	EPA 5030B/8260	MSV/73679		
60210853003	**MW-83-201601**	EPA 5030B/8260	MSV/73679		
60210853004	**MW-84-201601**	EPA 5030B/8260	MSV/73679		
60210853011	**MW-23-201601**	SM 2320B	WET/59508		
60210853012	**MW-24-201601**	SM 2320B	WET/59508		
60210853013	**MW-83-201601**	SM 2320B	WET/59508		
60210853014	**MW-84-201601**	SM 2320B	WET/59508		
60210853011	**MW-23-201601**	SM 3500-Fe B#4	WET/59729		
60210853012	**MW-24-201601**	SM 3500-Fe B#4	WET/59729		
60210853013	**MW-83-201601**	SM 3500-Fe B#4	WET/59750		
60210853014	**MW-84-201601**	SM 3500-Fe B#4	WET/59729		
60210853011	**MW-23-201601**	SM 4500-H+B	WET/59733		
60210853012	**MW-24-201601**	SM 4500-H+B	WET/59733		
60210853013	**MW-83-201601**	SM 4500-H+B	WET/59733		
60210853014	**MW-84-201601**	SM 4500-H+B	WET/59733		
60210853011	**MW-23-201601**	SM 4500-S-2 D	WET/59509		
60210853012	**MW-24-201601**	SM 4500-S-2 D	WET/59509		
60210853013	**MW-83-201601**	SM 4500-S-2 D	WET/59509		
60210853014	**MW-84-201601**	SM 4500-S-2 D	WET/59509		
60210853011	**MW-23-201601**	EPA 300.0	WETA/37670		
60210853012	**MW-24-201601**	EPA 300.0	WETA/37670		
60210853013	**MW-83-201601**	EPA 300.0	WETA/37670		
60210853014	**MW-84-201601**	EPA 300.0	WETA/37670		
60210853011	**MW-23-201601**	EPA 350.1	WETA/37682		
60210853012	**MW-24-201601**	EPA 350.1	WETA/37682		
60210853013	**MW-83-201601**	EPA 350.1	WETA/37682		
60210853014	**MW-84-201601**	EPA 350.1	WETA/37682		
60210853011	**MW-23-201601**	EPA 353.2	WETA/37650		
60210853012	**MW-24-201601**	EPA 353.2	WETA/37650		
60210853013	**MW-83-201601**	EPA 353.2	WETA/37650		
60210853014	**MW-84-201601**	EPA 353.2	WETA/37650		
60210853011	**MW-23-201601**	SM 4500-CO2 D	WETA/37869		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210853

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210853012	**MW-24-201601**	SM 4500-CO2 D	WETA/37869		
60210853013	**MW-83-201601**	SM 4500-CO2 D	WETA/37869		
60210853014	**MW-84-201601**	SM 4500-CO2 D	WETA/37869		
60210853011	**MW-23-201601**	SM 5310C	WETA/37720		
60210853012	**MW-24-201601**	SM 5310C	WETA/37720		
60210853013	**MW-83-201601**	SM 5310C	WETA/37720		
60210853014	**MW-84-201601**	SM 5310C	WETA/37720		
60210853011	**MW-23-201601**	SM4500-P B	WETA/10233	SM 4500-P E	WETA/10242
60210853012	**MW-24-201601**	SM4500-P B	WETA/10233	SM 4500-P E	WETA/10242
60210853013	**MW-83-201601**	SM4500-P B	WETA/10233	SM 4500-P E	WETA/10242
60210853014	**MW-84-201601**	SM4500-P B	WETA/10233	SM 4500-P E	WETA/10242

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Sample Condition Upon Receipt

WO# : 60210853

60210853

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☒ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: 8047 3340 7254 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☒ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / (CF +0.7 T-262) **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.8

Date and initials of person examining contents: JB 1/8

Temperature should be above freezing to 6°C

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 holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. NO_2/NO_3 1#
Rush Turn Around Time requested:	☒Yes ☐No ☐N/A	7. 24 hr VOCs
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC:	☒Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	14.
Exceptions: (VOA), Coliform, O&G, WI-DRO (water)	☒Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☒Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): Covered		15.
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☒N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / (N)

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CBC Date: 01/08/16

CHAIN-OF-CUSTODY / Analytical Request Document

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

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Page: 1 of 1

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	See Comments

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	34375006

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

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 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-23-201601 BP3N AF35 BP35	WT	G			1/7/16	1255		11	X	X	X	X	X		X		X	X	X	X	X	X	X	X	X	X		6021085 3
2	MW-24-201601						1010																							002
3	MW-83-201601						1015																							003
4	MW-84-201601						1100																							004
5	TripBlank-01								2				X																	005
6																														
7																														
8																														
9																														
10																														
11																														
12																														

(1) BP3N BP32 (3) OTHR (3) DG4U
(2) DG4H TB

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Haley Butterfield/Ramboll Environ	1/7/16	1807		1/8	0845	2.8	Y	Y	Y
24 Hr TAT VOCs only										
standard TAT for all										
other analyses										

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Nick Zurweller					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 1/7/16				

*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.

Chain of Custody

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www.pacelabs.com

Workorder: 60210853 **Workorder Name:** FORT SMITH, AR **Owner Received Date:** 1/8/2016 **Results Requested By:** ~~1/11/2016~~ CSC 01/11/16

Report To	Subcontract To
Colleen Clyne Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Dallas 400 West Bethany Drive Suite 190 Allen, TX 75013 Phone (972)727-1123

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: DG9U	BP3S					Requested Analysis: 8015 Chloroethanol	Total Phosphate										01/20/2016 LAB USE ONLY
1	MW-23-201601	PS	1/7/2016 12:55	60210853011	Water	3	1					X	X										001
2	MW-24-201601	PS	1/7/2016 10:10	60210853012	Water	3	1					X	X										002
3	MW-83-201601	PS	1/7/2016 10:15	60210853013	Water	3	1					X	X										003
4	MW-84-201601	PS	1/7/2016 11:00	60210853014	Water	3	1					X	X										004
5																							

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	1/11/16 1700	Shandra Jenkins	1/12/16 09:35
2				
3				

Comments

Cooler Temperature on Receipt 0.5 °C	Custody Seal Y or	Received on Ice Y or	Samples Intact Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

WO# : 7537194

7537194

Pace Analytical

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐San Angelo

Client Name: Pace - KS Project Work order: 7537194

Courier: FedEX ☑ UPS ☐ USPS ☐ Client ☐ Courier ☐ LSO ☐ PACE ☐ Other:_____

Tracking#: 6508 8163 5935

Custody Seal on Cooler/Box: Yes ☑ No ☐ **Seals Intact:** Yes ☑ No ☐ NA ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☑ Other ☐

Thermometer Used: IR-01 Type of Ice: Wet ☑ Blue ☐ None ☐ Sample Received on ice, cooling process has begun ☑

Cooler Temp: 0-5 (Temp should be above freezing to 6°C)

Chain of Custody Present	Yes ☑ No ☐ NA ☐	1
Chain of Custody filled out	Yes ☑ No ☐ NA ☐	2
Chain of Custody relinquished	Yes ☑ No ☐ NA ☐	3
Sampler name & signature on COC	Yes ☐ No ☑ NA ☐	4
Sample received within HT	Yes ☑ No ☐ NA ☐	5
Short HT analyses (<72 hrs)	Yes ☐ No ☑ NA ☐	6
Rush TAT requested	Yes ☐ No ☑ NA ☐	7
Sufficient Volume received	Yes ☑ No ☐ NA ☐	8
Correct Container used Pace Container used	Yes ☑ No ☐ NA ☐ Yes ☐ No ☐ NA ☐	9
Container Intact	Yes ☑ No ☐ NA ☐	10
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑	11
Filtered volume received for Dissolved tests	Yes ☐ No ☐ NA ☑	12
Sample labels match COC Include date/time/ID/analyses Matrix: WATER	Yes ☑ No ☐ NA ☐	13
All containers needing preservation have been checked	Yes ☑ No ☐ NA ☐	14a. Lot# of pH strip: 641003 pH checked Yes ☑ No ☐ pH<2 ☑ pH>9 ☐ pH>12 ☐ Lot# of Iodine strip: Lot# of Lead Acetate strip:
Do containers require preservation at the lab	Yes ☐ No ☑ NA ☐	14b. Preservation: / Lot#:
All containers needing preservation are found to be in Compliance with EPA recommendation **Exception:** VOA, coliform, O&G	Yes ☑ No ☐ NA ☐ Yes ☐ No ☑	14c.
Are soil samples (volatiles) received in	Bulk ☐ Terracore ☐ EnCore ☐ NA ☑	15.
Trip Blank present Trip Blank Custody Seals Intact Pace Trip Blank Lot# (if purchased):	Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑	16.
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☑	17.
Project sampled in USDA Regulated Area:	Yes ☐ No ☐ NA ☑	18. List State _____

Client Notification/Resolution/Comments:

Person Contacted:_____ Date:_____

Comments/Resolution:_____

Person Examining Contents: _____ Date: 1/12/16

F-DAL-C001rev.05 090215

Pace Analytical Services - Dallas

Sample Container Count-

COC PAGE 1 of 1

COC ID# _____

Pace Project # 7537194

Sample Line Item	AG1S	AG1U	AG3S	BG1S	BP1U	BP2N	BP2S	BP2U	BP20	SP5T	VG9H	DG9M	VG9U	VG9W	WGFU	WGKU	BP3C	GN	WG2U	BP3S				
1							1						3											
2							1						3											
3							1						3											
4							1						3											
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Container Codes

AF	Air Filter	BP1A	1 liter NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic	R	terra core kit
AG1H	1L HCL Amber Glass	BP1N	1 liter HNO3 plastic	BP3U	250mL unpreserved plastic	SP5T	120mL Coliform Na Thiosulfate
AG1S	1L H2SO4 Amber Glass	BP1S	1 liter H2SO4 plastic	BP3Z	250mL NaOH, Zn Ac plastic	SP5U	120mL Coliform unpreserved
AG1T	1L Sodium Thiosulfate Amber	BP1U	1 liter unpreserved plastic	C	Air Cassettes	VG9H	40mL HCL clear vial
AG1U	1L Unpreserved Amber Glass	BP1Z	1 liter NaOH, Zn, Ac	DG9B	40mL Na Bisulfate amber vial	VG9T	40mL Na Thio. clear vial
AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plasti	DG9H	40mL HCL amber voa vial	VG9U	40mL unpreserved clear vial
AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	DG9M	40mL MeOH clear vial	VG9W	40mL Unpreserved Tared
AG2U	500mL unpreserved amber glas	BP2O	500mL NaOH plastic	DG9P	40mL TSP amber vial	VSG	Headspace septa vial & HCL
AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	DG9S	40mL H2SO4 amber vial	WGFU	4oz clear soil jar
AG3U	250mL unpreserved amber glas	BP2U	500mL unpreserved plastic	DG9T	40mL Na Thio amber vial	WGFX	4oz wide jar w/hexane wipe
BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac	DG9U	40mL unpreserved amber vial	WGKU	8oz wide jar upreserved
BG1S	1 liter H2SO4 clear glass	BP3A	250mL NaOh, Asc Acid plasti	GN	General unpreserved	WG2U	2oz clear jar
BG1T	1 liter Na Thiosulfate clear gla	BP3C	250mL NaOH plastic	I	Wipe/Swab	ZPLC	Ziploc Bag
BG1U	1 liter unpreserved glass	BP3N	250mL HNO3 plastic	JGFU	4oz unpreserved amber wide	Other	Other

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 26, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: Fort Smith, AR
Pace Project No.: 60210862

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 08, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: Fort Smith, AR
Pace Project No.: 60210862

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

Dallas Certification IDs:

400 West Bethany Dr Suite 190, Allen, TX 75013
EPA# TX00074
Texas Certification #: T104704232-15-12
Texas Certification #: T104704232-14-8
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 2014-055
Louisiana Certification #: 02007

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Fort Smith, AR
Pace Project No.: 60210862

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60210853006	**IW-80-201601**	Water	01/07/16 15:50	01/08/16 08:45
60210853007	**IW-101-201601**	Water	01/07/16 13:35	01/08/16 08:45
60210853009	**MW-189-201601**	Water	01/07/16 15:35	01/08/16 08:45
60210853008	**MW-186-201601**	Water	01/07/16 15:25	01/08/16 08:45
60210853010	**TRIP BLANK-02**	Water	01/07/16 08:00	01/08/16 08:45
60210853015	**IW-80-201601**	Water	01/07/16 15:50	01/08/16 08:45
60210853016	**MW-186-201601**	Water	01/07/16 15:25	01/08/16 08:45
60210853017	**MW-189-201601**	Water	01/07/16 15:35	01/08/16 08:45

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SAMPLE ANALYTE COUNT

Project: Fort Smith, AR
Pace Project No.: 60210862

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60210853006	**IW-80-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210853007	**IW-101-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210853009	**MW-189-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210853008	**MW-186-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210853010	**TRIP BLANK-02**	EPA 5030B/8260	PGH	38	PASI-K
60210853015	**IW-80-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210853016	**MW-186-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210853017	**MW-189-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: Fort Smith, AR
Pace Project No.: 60210862

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Fort Smith, AR
Pace Project No.: 60210862

Method: **EPA 8015 - Alcohol**
Description: Alcohol by Direct Inject GCFID
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for EPA 8015 - Alcohol. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Fort Smith, AR
Pace Project No.: 60210862

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Fort Smith, AR
Pace Project No.: 60210862

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: MSV/73671

B: Analyte was detected in the associated method blank.
- BLANK for HBN 415066 [MSV/7367 (Lab ID: 1694414)
  - Chloromethane

QC Batch: MSV/73679

B: Analyte was detected in the associated method blank.
- BLANK for HBN 415124 [MSV/7367 (Lab ID: 1694839)
  - Chloromethane

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73671

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73679

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: Fort Smith, AR
Pace Project No.: 60210862

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/59508

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 1695544)
  - Alkalinity,Bicarbonate (CaCO3)

Additional Comments:

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PROJECT NARRATIVE

Project: Fort Smith, AR
Pace Project No.: 60210862

Method: **SM 3500-Fe B#4**
Description: Iron, Ferric (Calculation)
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 3500-Fe B#4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Ferrous Fe performed in the field
- QC Batch: WET / 59729

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PROJECT NARRATIVE

Project: Fort Smith, AR
Pace Project No.: 60210862

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- IW-80-201601 (Lab ID: 60210853015)
- MW-186-201601 (Lab ID: 60210853016)
- MW-189-201601 (Lab ID: 60210853017)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Field pH
- QC Batch: WET / 59755

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PROJECT NARRATIVE

Project: Fort Smith, AR
Pace Project No.: 60210862

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Fort Smith, AR
Pace Project No.: 60210862

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37670

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210856004,60210857001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1695509)
  - Sulfate
- MSD (Lab ID: 1695510)
  - Sulfate

Additional Comments:

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PROJECT NARRATIVE

Project: Fort Smith, AR
Pace Project No.: 60210862

Method: **EPA 350.1**
Description: 350.1 Ammonia
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37682

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210826001,60210856001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1695602)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Fort Smith, AR
Pace Project No.: 60210862

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Fort Smith, AR
Pace Project No.: 60210862

Method: **SM 4500-CO2 D**
Description: Total Carbon Dioxide Calc
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 4500-CO2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Fort Smith, AR
Pace Project No.: 60210862

Method: **SM 5310C**
Description: 5310C TOC
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Fort Smith, AR
Pace Project No.: 60210862

Method: **SM 4500-P E**
Description: SM4500P-E, Total Phosphorus
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 4500-P E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with SM4500-P B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60210862

Sample: IW-80-201601 **Lab ID: 60210853006** Collected: 01/07/16 15:50 Received: 01/08/16 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**18.3**	ug/L	10.0	1.9	1		01/08/16 15:59	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/08/16 15:59	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/08/16 15:59	75-27-4	
Bromoform	**0.64J**	ug/L	1.0	0.070	1		01/08/16 15:59	75-25-2	
Bromomethane	**3.7J**	ug/L	5.0	0.16	1		01/08/16 15:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/08/16 15:59	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/08/16 15:59	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/08/16 15:59	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/08/16 15:59	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/08/16 15:59	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/08/16 15:59	67-66-3	
Chloromethane	**1.8**	ug/L	1.0	0.080	1		01/08/16 15:59	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/08/16 15:59	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/08/16 15:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/08/16 15:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/08/16 15:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/08/16 15:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/08/16 15:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/08/16 15:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/08/16 15:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/08/16 15:59	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/08/16 15:59	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/08/16 15:59	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/08/16 15:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/08/16 15:59	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/08/16 15:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/08/16 15:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/08/16 15:59	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/08/16 15:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/08/16 15:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/08/16 15:59	79-00-5	
Trichloroethene	**4.2**	ug/L	1.0	0.17	1		01/08/16 15:59	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/08/16 15:59	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/08/16 15:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	80-120		1		01/08/16 15:59	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120		1		01/08/16 15:59	17060-07-0	
Toluene-d8 (S)	95	%	80-120		1		01/08/16 15:59	2037-26-5	
Preservation pH	**3.0**		0.10	0.10	1		01/08/16 15:59		

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ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60210862

Sample: IW-101-201601 **Lab ID: 60210853007** Collected: 01/07/16 13:35 Received: 01/08/16 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**14.7**	ug/L	10.0	1.9	1		01/08/16 16:14	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/08/16 16:14	71-43-2	
Bromodichloromethane	**0.37J**	ug/L	1.0	0.19	1		01/08/16 16:14	75-27-4	
Bromoform	**19.1**	ug/L	1.0	0.070	1		01/08/16 16:14	75-25-2	
Bromomethane	**4.7J**	ug/L	5.0	0.16	1		01/08/16 16:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/08/16 16:14	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/08/16 16:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/08/16 16:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/08/16 16:14	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/08/16 16:14	75-00-3	
Chloroform	**0.34J**	ug/L	1.0	0.14	1		01/08/16 16:14	67-66-3	
Chloromethane	**4.8**	ug/L	1.0	0.080	1		01/08/16 16:14	74-87-3	
Dibromochloromethane	**0.95J**	ug/L	1.0	0.21	1		01/08/16 16:14	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/08/16 16:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/08/16 16:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/08/16 16:14	75-35-4	
cis-1,2-Dichloroethene	**1.1**	ug/L	1.0	0.080	1		01/08/16 16:14	156-59-2	
trans-1,2-Dichloroethene	**0.24J**	ug/L	1.0	0.20	1		01/08/16 16:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/08/16 16:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/08/16 16:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/08/16 16:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/08/16 16:14	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/08/16 16:14	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/08/16 16:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/08/16 16:14	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/08/16 16:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/08/16 16:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/08/16 16:14	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/08/16 16:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/08/16 16:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/08/16 16:14	79-00-5	
Trichloroethene	**42.9**	ug/L	1.0	0.17	1		01/08/16 16:14	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/08/16 16:14	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/08/16 16:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		01/08/16 16:14	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/08/16 16:14	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		01/08/16 16:14	2037-26-5	
Preservation pH	**3.0**		0.10	0.10	1		01/08/16 16:14		

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ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60210862

Sample: MW-189-201601 **Lab ID: 60210853009** Collected: 01/07/16 15:35 Received: 01/08/16 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/08/16 15:16	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/08/16 15:16	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/08/16 15:16	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/08/16 15:16	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/08/16 15:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/08/16 15:16	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/08/16 15:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/08/16 15:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/08/16 15:16	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/08/16 15:16	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/08/16 15:16	67-66-3	
Chloromethane	**0.26J**	ug/L	1.0	0.080	1		01/08/16 15:16	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/08/16 15:16	124-48-1	
1,1-Dichloroethane	**0.28J**	ug/L	1.0	0.050	1		01/08/16 15:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/08/16 15:16	107-06-2	
1,1-Dichloroethene	**0.93J**	ug/L	1.0	0.20	1		01/08/16 15:16	75-35-4	
cis-1,2-Dichloroethene	**5.4**	ug/L	1.0	0.080	1		01/08/16 15:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/08/16 15:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/08/16 15:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/08/16 15:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/08/16 15:16	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/08/16 15:16	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/08/16 15:16	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/08/16 15:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/08/16 15:16	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/08/16 15:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/08/16 15:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/08/16 15:16	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/08/16 15:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/08/16 15:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/08/16 15:16	79-00-5	
Trichloroethene	**4.5**	ug/L	1.0	0.17	1		01/08/16 15:16	79-01-6	
Vinyl chloride	**0.19J**	ug/L	1.0	0.13	1		01/08/16 15:16	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/08/16 15:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/08/16 15:16	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/08/16 15:16	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		01/08/16 15:16	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/08/16 15:16		

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ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60210862

Sample: MW-186-201601 **Lab ID: 60210853008** Collected: 01/07/16 15:25 Received: 01/08/16 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/08/16 15:01	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/08/16 15:01	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/08/16 15:01	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/08/16 15:01	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/08/16 15:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/08/16 15:01	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/08/16 15:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/08/16 15:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/08/16 15:01	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/08/16 15:01	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/08/16 15:01	67-66-3	
Chloromethane	**0.36J**	ug/L	1.0	0.080	1		01/08/16 15:01	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/08/16 15:01	124-48-1	
1,1-Dichloroethane	**0.67J**	ug/L	1.0	0.050	1		01/08/16 15:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/08/16 15:01	107-06-2	
1,1-Dichloroethene	**0.39J**	ug/L	1.0	0.20	1		01/08/16 15:01	75-35-4	
cis-1,2-Dichloroethene	**3.2**	ug/L	1.0	0.080	1		01/08/16 15:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/08/16 15:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/08/16 15:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/08/16 15:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/08/16 15:01	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/08/16 15:01	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/08/16 15:01	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/08/16 15:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/08/16 15:01	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/08/16 15:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/08/16 15:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/08/16 15:01	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/08/16 15:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/08/16 15:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/08/16 15:01	79-00-5	
Trichloroethene	**3.0**	ug/L	1.0	0.17	1		01/08/16 15:01	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/08/16 15:01	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/08/16 15:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		01/08/16 15:01	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/08/16 15:01	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		01/08/16 15:01	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/08/16 15:01		

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ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60210862

Sample: TRIP BLANK-02 **Lab ID: 60210853010** Collected: 01/07/16 08:00 Received: 01/08/16 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/08/16 14:47	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/08/16 14:47	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/08/16 14:47	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/08/16 14:47	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/08/16 14:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/08/16 14:47	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/08/16 14:47	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/08/16 14:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/08/16 14:47	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/08/16 14:47	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/08/16 14:47	67-66-3	
Chloromethane	**0.23J**	ug/L	1.0	0.080	1		01/08/16 14:47	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/08/16 14:47	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/08/16 14:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/08/16 14:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/08/16 14:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/08/16 14:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/08/16 14:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/08/16 14:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/08/16 14:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/08/16 14:47	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/08/16 14:47	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/08/16 14:47	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/08/16 14:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/08/16 14:47	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/08/16 14:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/08/16 14:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/08/16 14:47	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/08/16 14:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/08/16 14:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/08/16 14:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/08/16 14:47	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/08/16 14:47	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/08/16 14:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/08/16 14:47	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120		1		01/08/16 14:47	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		01/08/16 14:47	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/08/16 14:47		

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ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60210862

Sample: IW-80-201601 **Lab ID: 60210853015** Collected: 01/07/16 15:50 Received: 01/08/16 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 13:36	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**454**	ug/L	50.0	9.0	1	01/08/16 14:10	01/14/16 19:03	7439-89-6	
Manganese	**148**	ug/L	5.0	2.4	1	01/08/16 14:10	01/14/16 19:03	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**270**	mg/L	20.0	2.0	1		01/13/16 14:57		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/13/16 14:57		
Alkalinity, Total as CaCO3	**270**	mg/L	20.0	2.0	1		01/13/16 14:57		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.45**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.2**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/12/16 14:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**153**	mg/L	20.0	10.0	20		01/12/16 14:20	16887-00-6	
Sulfate	**1820**	mg/L	200	47.3	200		01/12/16 14:35	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.71**	mg/L	0.10	0.046	1		01/12/16 13:17	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.2**	mg/L	0.10	0.014	1		01/08/16 14:01		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/08/16 14:01		
Nitrogen, NO2 plus NO3	**2.2**	mg/L	0.10	0.014	1		01/08/16 14:01		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**562**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**1.1**	mg/L	1.0	0.50	1		01/14/16 18:01	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.64**	mg/L	0.030	0.010	1	01/14/16 08:54	01/14/16 16:02		

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ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60210862

Sample: MW-186-201601 **Lab ID: 60210853016** Collected: 01/07/16 15:25 Received: 01/08/16 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 13:47	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**56.2**	ug/L	50.0	9.0	1	01/08/16 14:10	01/14/16 19:06	7439-89-6	
Manganese	**101**	ug/L	5.0	2.4	1	01/08/16 14:10	01/14/16 19:06	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**79.6**	mg/L	20.0	2.0	1		01/19/16 10:02		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/19/16 10:02		
Alkalinity, Total as CaCO3	**79.6**	mg/L	20.0	2.0	1		01/19/16 10:02		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.0**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/12/16 14:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**77.4**	mg/L	10.0	5.0	10		01/12/16 14:49	16887-00-6	
Sulfate	**103**	mg/L	10.0	2.4	10		01/12/16 14:49	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/12/16 13:18	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**10.9**	mg/L	0.50	0.070	5		01/08/16 14:08		
Nitrogen, Nitrite	ND	mg/L	0.50	0.12	5		01/08/16 14:08		
Nitrogen, NO2 plus NO3	**10.9**	mg/L	0.50	0.070	5		01/08/16 14:08		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**249**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.63J**	mg/L	1.0	0.50	1		01/14/16 18:14	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.11**	mg/L	0.030	0.010	1	01/14/16 08:54	01/14/16 16:02		

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ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60210862

Sample: MW-189-201601 **Lab ID: 60210853017** Collected: 01/07/16 15:35 Received: 01/08/16 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 13:58	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**253**	ug/L	50.0	9.0	1	01/08/16 14:10	01/14/16 19:08	7439-89-6	
Manganese	**87.7**	ug/L	5.0	2.4	1	01/08/16 14:10	01/14/16 19:08	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**70.7**	mg/L	20.0	2.0	1		01/19/16 10:07		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/19/16 10:07		
Alkalinity, Total as CaCO3	**70.7**	mg/L	20.0	2.0	1		01/19/16 10:07		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.2**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/12/16 14:07	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**55.0**	mg/L	5.0	2.5	5		01/13/16 11:32	16887-00-6	
Sulfate	**9.2**	mg/L	1.0	0.24	1		01/13/16 11:17	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/12/16 13:19	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**3.3**	mg/L	0.10	0.014	1		01/08/16 14:04		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/08/16 14:04		
Nitrogen, NO2 plus NO3	**3.3**	mg/L	0.10	0.014	1		01/08/16 14:04		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**160**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/19/16 10:19	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.11**	mg/L	0.030	0.010	1	01/14/16 08:54	01/14/16 16:03		

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QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60210862

QC Batch: GCSV/4868 Analysis Method: EPA 8015 - Alcohol
QC Batch Method: EPA 8015 - Alcohol Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60210853015, 60210853016, 60210853017

METHOD BLANK: 194580 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/14/16 10:24	

LABORATORY CONTROL SAMPLE: 194581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	87400	87	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194582 194583

Parameter	Units	60210853011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	86700	70800	87	71	40-140	20	40	

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QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60210862

QC Batch: MPRP/34521 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60210853015, 60210853016, 60210853017

METHOD BLANK: 1694954 Matrix: Water
Associated Lab Samples: 60210853015, 60210853016, 60210853017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	9.0	01/14/16 18:36	
Manganese	ug/L	ND	5.0	2.4	01/14/16 18:36	

LABORATORY CONTROL SAMPLE: 1694955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10000	100	80-120	
Manganese	ug/L	1000	947	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1694956 1694957

Parameter	Units	60210797001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	93.8	10000	10000	9880	9950	98	99	75-125	1	20	
Manganese	ug/L	814	1000	1000	1750	1750	94	94	75-125	0	20	

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QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60210862

QC Batch: MSV/73671 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210853008, 60210853009, 60210853010

METHOD BLANK: 1694414 Matrix: Water
Associated Lab Samples: 60210853008, 60210853009, 60210853010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/08/16 13:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/08/16 13:55	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/08/16 13:55	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/08/16 13:55	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/08/16 13:55	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/08/16 13:55	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/08/16 13:55	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/08/16 13:55	
2-Hexanone	ug/L	ND	10.0	1.2	01/08/16 13:55	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/08/16 13:55	
Acetone	ug/L	ND	10.0	1.9	01/08/16 13:55	
Benzene	ug/L	ND	1.0	0.060	01/08/16 13:55	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/08/16 13:55	
Bromoform	ug/L	ND	1.0	0.070	01/08/16 13:55	
Bromomethane	ug/L	ND	5.0	0.16	01/08/16 13:55	
Carbon disulfide	ug/L	0.15J	5.0	0.12	01/08/16 13:55	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/08/16 13:55	
Chlorobenzene	ug/L	ND	1.0	0.21	01/08/16 13:55	
Chloroethane	ug/L	ND	1.0	0.15	01/08/16 13:55	
Chloroform	ug/L	ND	1.0	0.14	01/08/16 13:55	
Chloromethane	ug/L	0.25J	1.0	0.080	01/08/16 13:55	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/08/16 13:55	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/08/16 13:55	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/08/16 13:55	
Ethylbenzene	ug/L	ND	1.0	0.18	01/08/16 13:55	
Methylene chloride	ug/L	ND	1.0	0.15	01/08/16 13:55	
Styrene	ug/L	ND	1.0	0.12	01/08/16 13:55	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/08/16 13:55	
Toluene	ug/L	ND	1.0	0.17	01/08/16 13:55	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/08/16 13:55	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/08/16 13:55	
Trichloroethene	ug/L	ND	1.0	0.17	01/08/16 13:55	
Vinyl chloride	ug/L	ND	1.0	0.13	01/08/16 13:55	
Xylene (Total)	ug/L	ND	3.0	0.42	01/08/16 13:55	
1,2-Dichloroethane-d4 (S)	%	101	80-120		01/08/16 13:55	
4-Bromofluorobenzene (S)	%	98	80-120		01/08/16 13:55	
Toluene-d8 (S)	%	99	80-120		01/08/16 13:55	

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QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60210862

LABORATORY CONTROL SAMPLE: 1694415

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.8	94	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	16.6	83	73-121	
1,1,2-Trichloroethane	ug/L	20	16.2	81	80-120	
1,1-Dichloroethane	ug/L	20	20.3	102	80-120	
1,1-Dichloroethene	ug/L	20	16.8	84	80-120	
1,2-Dichloroethane	ug/L	20	19.1	95	81-120	
1,2-Dichloropropane	ug/L	20	18.9	94	80-120	
2-Butanone (MEK)	ug/L	100	103	103	67-122	
2-Hexanone	ug/L	100	93.8	94	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	76-120	
Acetone	ug/L	100	112	112	72-120	
Benzene	ug/L	20	20.3	102	80-120	
Bromodichloromethane	ug/L	20	19.4	97	80-120	
Bromoform	ug/L	20	18.1	91	73-138	
Bromomethane	ug/L	20	22.1	110	38-137	
Carbon disulfide	ug/L	20	19.7	99	71-129	
Carbon tetrachloride	ug/L	20	18.5	92	67-146	
Chlorobenzene	ug/L	20	18.9	95	80-120	
Chloroethane	ug/L	20	19.2	96	76-120	
Chloroform	ug/L	20	17.7	89	80-120	
Chloromethane	ug/L	20	18.6	93	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	80-120	
Dibromochloromethane	ug/L	20	17.8	89	80-126	
Ethylbenzene	ug/L	20	19.8	99	80-120	
Methylene chloride	ug/L	20	18.6	93	80-120	
Styrene	ug/L	20	20.7	104	80-123	
Tetrachloroethene	ug/L	20	17.3	86	80-123	
Toluene	ug/L	20	18.5	93	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.9	95	80-120	
trans-1,3-Dichloropropene	ug/L	20	18.5	93	80-129	
Trichloroethene	ug/L	20	18.2	91	80-120	
Vinyl chloride	ug/L	20	21.5	107	62-125	
Xylene (Total)	ug/L	60	60.9	101	80-120	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			95	80-120	

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QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60210862

QC Batch: MSV/73679
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 7 day
Associated Lab Samples: 60210853006, 60210853007

METHOD BLANK: 1694839
Matrix: Water
Associated Lab Samples: 60210853006, 60210853007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/08/16 13:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/08/16 13:55	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/08/16 13:55	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/08/16 13:55	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/08/16 13:55	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/08/16 13:55	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/08/16 13:55	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/08/16 13:55	
2-Hexanone	ug/L	ND	10.0	1.2	01/08/16 13:55	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/08/16 13:55	
Acetone	ug/L	ND	10.0	1.9	01/08/16 13:55	
Benzene	ug/L	ND	1.0	0.060	01/08/16 13:55	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/08/16 13:55	
Bromoform	ug/L	ND	1.0	0.070	01/08/16 13:55	
Bromomethane	ug/L	ND	5.0	0.16	01/08/16 13:55	
Carbon disulfide	ug/L	0.15J	5.0	0.12	01/08/16 13:55	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/08/16 13:55	
Chlorobenzene	ug/L	ND	1.0	0.21	01/08/16 13:55	
Chloroethane	ug/L	ND	1.0	0.15	01/08/16 13:55	
Chloroform	ug/L	ND	1.0	0.14	01/08/16 13:55	
Chloromethane	ug/L	0.25J	1.0	0.080	01/08/16 13:55	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/08/16 13:55	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/08/16 13:55	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/08/16 13:55	
Ethylbenzene	ug/L	ND	1.0	0.18	01/08/16 13:55	
Methylene chloride	ug/L	ND	1.0	0.15	01/08/16 13:55	
Styrene	ug/L	ND	1.0	0.12	01/08/16 13:55	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/08/16 13:55	
Toluene	ug/L	ND	1.0	0.17	01/08/16 13:55	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/08/16 13:55	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/08/16 13:55	
Trichloroethene	ug/L	ND	1.0	0.17	01/08/16 13:55	
Vinyl chloride	ug/L	ND	1.0	0.13	01/08/16 13:55	
Xylene (Total)	ug/L	ND	3.0	0.42	01/08/16 13:55	
1,2-Dichloroethane-d4 (S)	%	101	80-120		01/08/16 13:55	
4-Bromofluorobenzene (S)	%	98	80-120		01/08/16 13:55	
Toluene-d8 (S)	%	99	80-120		01/08/16 13:55	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60210862

LABORATORY CONTROL SAMPLE: 1694840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.8	94	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	16.6	83	73-121	
1,1,2-Trichloroethane	ug/L	20	16.2	81	80-120	
1,1-Dichloroethane	ug/L	20	20.3	102	80-120	
1,1-Dichloroethene	ug/L	20	16.8	84	80-120	
1,2-Dichloroethane	ug/L	20	19.1	95	81-120	
1,2-Dichloropropane	ug/L	20	18.9	94	80-120	
2-Butanone (MEK)	ug/L	100	103	103	67-122	
2-Hexanone	ug/L	100	93.8	94	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	76-120	
Acetone	ug/L	100	112	112	72-120	
Benzene	ug/L	20	20.3	102	80-120	
Bromodichloromethane	ug/L	20	19.4	97	80-120	
Bromoform	ug/L	20	18.1	91	73-138	
Bromomethane	ug/L	20	22.1	110	38-137	
Carbon disulfide	ug/L	20	19.7	99	71-129	
Carbon tetrachloride	ug/L	20	18.5	92	67-146	
Chlorobenzene	ug/L	20	18.9	95	80-120	
Chloroethane	ug/L	20	19.2	96	76-120	
Chloroform	ug/L	20	17.7	89	80-120	
Chloromethane	ug/L	20	18.6	93	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	80-120	
Dibromochloromethane	ug/L	20	17.8	89	80-126	
Ethylbenzene	ug/L	20	19.8	99	80-120	
Methylene chloride	ug/L	20	18.6	93	80-120	
Styrene	ug/L	20	20.7	104	80-123	
Tetrachloroethene	ug/L	20	17.3	86	80-123	
Toluene	ug/L	20	18.5	93	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.9	95	80-120	
trans-1,3-Dichloropropene	ug/L	20	18.5	93	80-129	
Trichloroethene	ug/L	20	18.2	91	80-120	
Vinyl chloride	ug/L	20	21.5	107	62-125	
Xylene (Total)	ug/L	60	60.9	101	80-120	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			95	80-120	

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QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60210862

QC Batch: WET/59508 — Analysis Method: SM 2320B
QC Batch Method: SM 2320B — Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60210853015

METHOD BLANK: 1695542 — Matrix: Water
Associated Lab Samples: 60210853015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/13/16 12:21	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/13/16 12:21	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/13/16 12:21	

LABORATORY CONTROL SAMPLE: 1695543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	546	109	90-110	

SAMPLE DUPLICATE: 1695544

Parameter	Units	60210883002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	1590	1580			
Alkalinity, Total as CaCO3	mg/L	1650	1930			
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	349			D6

SAMPLE DUPLICATE: 1695545

Parameter	Units	60210763003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	102	101	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	102	101	1	10	

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QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60210862

QC Batch: WET/59532 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60210853016, 60210853017

METHOD BLANK: 1696168 Matrix: Water
Associated Lab Samples: 60210853016, 60210853017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/19/16 09:06	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/19/16 09:06	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/19/16 09:06	

LABORATORY CONTROL SAMPLE: 1696169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	484	97	90-110	

SAMPLE DUPLICATE: 1696170

Parameter	Units	60210963002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	<2.0	ND		10	
Alkalinity, Total as CaCO3	mg/L	220	213	4	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	220	213	4	10	

SAMPLE DUPLICATE: 1696171

Parameter	Units	60210853017 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	70.7	72.0	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	70.7	72.0	2	10	

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QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60210862

QC Batch: WET/59509 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60210853015, 60210853016, 60210853017

METHOD BLANK: 1695546 Matrix: Water
Associated Lab Samples: 60210853015, 60210853016, 60210853017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/12/16 13:59	

LABORATORY CONTROL SAMPLE: 1695547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.52	103	80-120	

MATRIX SPIKE SAMPLE: 1695548

Parameter	Units	10335385005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.48	96	75-125	

SAMPLE DUPLICATE: 1695549

Parameter	Units	60210763003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1695550

Parameter	Units	60210853012 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60210862

QC Batch: WETA/37670 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60210853015, 60210853016

METHOD BLANK: 1695507 Matrix: Water
Associated Lab Samples: 60210853015, 60210853016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/12/16 09:32	
Sulfate	mg/L	ND	1.0	0.25	01/12/16 09:32	

LABORATORY CONTROL SAMPLE: 1695508

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	95	90-110	
Sulfate	mg/L	5	4.8	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1695509 1695510

Parameter	Units	60210856004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	250	250	232	230	88	87	80-120	1	15	
Sulfate	mg/L	578	250	250	766	759	75	72	80-120	1	15	M1

MATRIX SPIKE SAMPLE: 1695511

Parameter	Units	60210857001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1510	1000	2460	94	80-120	
Sulfate	mg/L	ND	1000	1040	90	80-120	

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QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60210862

QC Batch: WETA/37703 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60210853017

METHOD BLANK: 1696186 Matrix: Water
Associated Lab Samples: 60210853017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/13/16 09:08	
Sulfate	mg/L	ND	1.0	0.25	01/13/16 09:08	

LABORATORY CONTROL SAMPLE: 1696187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	95	90-110	
Sulfate	mg/L	5	4.7	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696188 1696189

Parameter	Units	60210999001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	5	5	10.1	10	93	91	80-120	1	15	
Sulfate	mg/L	32.3	25	25	54.2	54.6	88	89	80-120	1	15	

MATRIX SPIKE SAMPLE: 1696190

Parameter	Units	60211007001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	515	250	748	93	80-120	
Sulfate	mg/L	2840	1000	3710	87	80-120	

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QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60210862

QC Batch: WETA/37682 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60210853015, 60210853016, 60210853017

METHOD BLANK: 1695600 Matrix: Water
Associated Lab Samples: 60210853015, 60210853016, 60210853017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/12/16 12:53	

LABORATORY CONTROL SAMPLE: 1695601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1695602

Parameter	Units	60210826001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.49	2	2.2	85	90-110	M1

MATRIX SPIKE SAMPLE: 1695603

Parameter	Units	60210856001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	95	90-110	

SAMPLE DUPLICATE: 1695604

Parameter	Units	60210856002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	0.15	2	18	

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QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60210862

QC Batch: WETA/37650 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60210853015, 60210853016, 60210853017

METHOD BLANK: 1694927 Matrix: Water
Associated Lab Samples: 60210853015, 60210853016, 60210853017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.014	01/08/16 13:54	
Nitrogen, Nitrite	mg/L	ND	0.10	0.023	01/08/16 13:54	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	0.014	01/08/16 13:54	

LABORATORY CONTROL SAMPLE: 1694928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.7	104	85-115	
Nitrogen, Nitrite	mg/L	.4	0.40	99	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.1	103	90-110	

MATRIX SPIKE SAMPLE: 1694929

Parameter	Units	60210853011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.2	1.6	2.8	99	85-115	
Nitrogen, Nitrite	mg/L	ND	.4	0.41	103	90-110	
Nitrogen, NO2 plus NO3	mg/L	1.2	2	3.2	100	90-110	

SAMPLE DUPLICATE: 1694930

Parameter	Units	60210853014 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	3.3	3.3	0	20	
Nitrogen, Nitrite	mg/L	ND	ND		20	
Nitrogen, NO2 plus NO3	mg/L	3.3	3.3	0	20	

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QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60210862

QC Batch: WETA/37720 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60210853015, 60210853016

METHOD BLANK: 1696967 Matrix: Water
Associated Lab Samples: 60210853015, 60210853016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/14/16 12:09	

LABORATORY CONTROL SAMPLE: 1696968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.6	113	80-120	

MATRIX SPIKE SAMPLE: 1696969

Parameter	Units	60210763003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	5	6.4	118	80-120	

SAMPLE DUPLICATE: 1696970

Parameter	Units	60210763004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60210862

QC Batch: WETA/37721 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60210853017

METHOD BLANK: 1696971 — Matrix: Water
Associated Lab Samples: 60210853017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/19/16 09:40	

LABORATORY CONTROL SAMPLE: 1696972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.6	112	80-120	

MATRIX SPIKE SAMPLE: 1696973

Parameter	Units	60210855001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.9	5	5.9	80	80-120	

SAMPLE DUPLICATE: 1696974

Parameter	Units	60210856002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	7.5	7.6	2	25	

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QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60210862

QC Batch: WETA/10233 Analysis Method: SM 4500-P E
QC Batch Method: SM4500-P B Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60210853015, 60210853016, 60210853017

METHOD BLANK: 194859 Matrix: Water
Associated Lab Samples: 60210853015, 60210853016, 60210853017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.014J	0.030	0.010	01/14/16 15:52	

LABORATORY CONTROL SAMPLE: 194860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.4	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194861 194862

Parameter	Units	7536279002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.032	1.5	1.5	1.4	1.4	88	88	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194863 194864

Parameter	Units	7536858001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.077	1.5	1.5	1.4	1.4	87	89	80-120	2	20	

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QUALIFIERS

Project: Fort Smith, AR
Pace Project No.: 60210862

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-D	Pace Analytical Services - Dallas
PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73671
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/73679
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: WET/59729
[1] Ferrous Fe performed in the field
Batch: WET/59755
[1] Field pH

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fort Smith, AR
Pace Project No.: 60210862

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210853015	**IW-80-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210853016	**MW-186-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210853017	**MW-189-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210853015	**IW-80-201601**	EPA 3010	MPRP/34521	EPA 6010	ICP/25333
60210853016	**MW-186-201601**	EPA 3010	MPRP/34521	EPA 6010	ICP/25333
60210853017	**MW-189-201601**	EPA 3010	MPRP/34521	EPA 6010	ICP/25333
60210853008	**MW-186-201601**	EPA 5030B/8260	MSV/73671		
60210853009	**MW-189-201601**	EPA 5030B/8260	MSV/73671		
60210853010	**TRIP BLANK-02**	EPA 5030B/8260	MSV/73671		
60210853006	**IW-80-201601**	EPA 5030B/8260	MSV/73679		
60210853007	**IW-101-201601**	EPA 5030B/8260	MSV/73679		
60210853015	**IW-80-201601**	SM 2320B	WET/59508		
60210853016	**MW-186-201601**	SM 2320B	WET/59532		
60210853017	**MW-189-201601**	SM 2320B	WET/59532		
60210853015	**IW-80-201601**	SM 3500-Fe B#4	WET/59729		
60210853016	**MW-186-201601**	SM 3500-Fe B#4	WET/59729		
60210853017	**MW-189-201601**	SM 3500-Fe B#4	WET/59729		
60210853015	**IW-80-201601**	SM 4500-H+B	WET/59755		
60210853016	**MW-186-201601**	SM 4500-H+B	WET/59755		
60210853017	**MW-189-201601**	SM 4500-H+B	WET/59755		
60210853015	**IW-80-201601**	SM 4500-S-2 D	WET/59509		
60210853016	**MW-186-201601**	SM 4500-S-2 D	WET/59509		
60210853017	**MW-189-201601**	SM 4500-S-2 D	WET/59509		
60210853015	**IW-80-201601**	EPA 300.0	WETA/37670		
60210853016	**MW-186-201601**	EPA 300.0	WETA/37670		
60210853017	**MW-189-201601**	EPA 300.0	WETA/37703		
60210853015	**IW-80-201601**	EPA 350.1	WETA/37682		
60210853016	**MW-186-201601**	EPA 350.1	WETA/37682		
60210853017	**MW-189-201601**	EPA 350.1	WETA/37682		
60210853015	**IW-80-201601**	EPA 353.2	WETA/37650		
60210853016	**MW-186-201601**	EPA 353.2	WETA/37650		
60210853017	**MW-189-201601**	EPA 353.2	WETA/37650		
60210853015	**IW-80-201601**	SM 4500-CO2 D	WETA/37869		
60210853016	**MW-186-201601**	SM 4500-CO2 D	WETA/37869		
60210853017	**MW-189-201601**	SM 4500-CO2 D	WETA/37870		
60210853015	**IW-80-201601**	SM 5310C	WETA/37720		
60210853016	**MW-186-201601**	SM 5310C	WETA/37720		
60210853017	**MW-189-201601**	SM 5310C	WETA/37721		
60210853015	**IW-80-201601**	SM4500-P B	WETA/10233	SM 4500-P E	WETA/10242
60210853016	**MW-186-201601**	SM4500-P B	WETA/10233	SM 4500-P E	WETA/10242

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fort Smith, AR
Pace Project No.: 60210862

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210853017	**MW-189-201601**	SM4500-P B	WETA/10233	SM 4500-P E	WETA/10242

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Sample Condition Upon Receipt

WO# : 60210862

60210862

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☒ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: 8047 3340 7254 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☒ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.8

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JB 1/8

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 holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. NO2/NO3 1A
Rush Turn Around Time requested:	☒Yes ☐No ☐N/A	7. 24 hr VOCs
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC:	☒Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	14.
Exceptions: (VOA), Coliform, O&G, WI-DRO (water)	☒Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☒Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): Covered		15.
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☒N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / (N)

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CBC Date: 01/08/18

CHAIN-OF-CUSTODY / Analytical Request Document

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

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www.pacelabs.com

Page: 1 of 1

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	See Comments

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tamara Gleason
	tgleason@environcorp.com
Purchase Order No.:	
Project Name:	Fort Smith, AR
Project Number:	34375000

Section C Invoice Information:

Attention:	Tamara Gleason
Company Name:	Environ
Address:	205 Monroe Ave. NW Grand Rapids, MI 49503
Pace Quote Reference:	~~Methuen, 49503~~ Grand Rapids, MI 49503
Pace Project Manager:	MJ Walls
Pace Profile #:	7444 water, 7709 soil

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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 client specific list	Alkalinity	TOC	Chloride, Sulfate	2015 Chloroethanol	Gold-Iron/Mn	Ferric Iron Calc	Ammonia	Nitrate+Nitrite	Total Phosphate	Sulfide	CO_2 Calc	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	IW-80-201601 BP3U AG3S BP3S	WT	G			1/7/16	1550		11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	X	60210862
2	IW-101-201601	↓	↓				1335		3								X												
3	MW-180-201601	↓	↓			↓	1525		11	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	
4	MW-189-201601	↓	↓			↓	1535		11	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	
5	TripBlank-02	↓				↓			2				X						↓											
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 60210862

BP3N BP3B (3) OTHER (3) D69H CO_2 Calc
(3) DGAM
(2) D69H FD

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package	Haley ~~Bullfield~~/Ramboll Environ	~~1/6~~ 1/7/16	1807		1/8	0845	4.1	Y	Y	X
24 Hr TAT VOCs only										
Standard TAT for all other analyses										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurmeller

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 1/7/16

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.

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 60210862 **Workorder Name:** Fort Smith, AR **Owner Received Date:** 1/8/2016 **Results Requested By:** ~~1/11/2016~~ CSC 01/11/16

Report To	Subcontract To
Colleen Clyne Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Dallas 400 West Bethany Drive Suite 190 Allen, TX 75013 Phone (972)727-1123

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: DG9U	Preserved Containers: BP3S	Requested Analysis: 8015 Chloroethanol	Requested Analysis: Total Phosphate	01/20/2016 LAB USE ONLY
1	IW-80-201601	PS	1/7/2016 15:50	60210853015	Water	3	1	X	X	001
2	MW-186-201601	PS	1/7/2016 15:25	60210853016	Water	3	1	X	X	002
3	MW-189-201601	PS	1/7/2016 15:35	60210853017	Water	3	1	X	X	003
4										
5										

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	1/11/16 1700	Shawntra Jenkins	1/12/16 09:35
2				
3				

Comments

Cooler Temperature on Receipt 0.5 °C | Custody Seal (Y) or | Received on Ice (Y) or | Samples Intact (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

WO#: 7537195
7537195

Pace Analytical

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐San Angelo

Client Name: Pace - KS Project Work order: 7537195

Courier: FedEX ☑ UPS ☐ USPS ☐ Client ☐ Courier ☐ LSO ☐ PACE ☐ Other:

Tracking#: 6508 8163 5935

Custody Seal on Cooler/Box: Yes ☑ No ☐ Seals Intact: Yes ☑ No ☐ NA ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☑ Other ☐

Thermometer Used: IR-01 Type of Ice: Wet ☐ Blue ☐ None ☐ Sample Received on ice, cooling process has begun ☑

Cooler Temp: 0-5 (Temp should be above freezing to 6°C)

Chain of Custody Present	Yes ☑ No ☐ NA ☐	1
Chain of Custody filled out	Yes ☑ No ☐ NA ☐	2
Chain of Custody relinquished	Yes ☑ No ☐ NA ☐	3
Sampler name & signature on COC	Yes ☐ No ☑ NA ☐	4
Sample received within HT	Yes ☑ No ☐ NA ☐	5
Short HT analyses (<72 hrs)	Yes ☐ No ☑ NA ☐	6
Rush TAT requested	Yes ☐ No ☑ NA ☐	7
Sufficient Volume received	Yes ☑ No ☐ NA ☐	8
Correct Container used Pace Container used	Yes ☑ No ☐ NA ☐ Yes ☐ No ☐ NA ☐	9
Container Intact	Yes ☑ No ☐ NA ☐	10
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑	11
Filtered volume received for Dissolved tests	Yes ☐ No ☐ NA ☑	12
Sample labels match COC Include date/time/ID/analyses Matrix: WATER	Yes ☑ No ☐ NA ☐	13
All containers needing preservation have been checked	Yes ☑ No ☐ NA ☐	14a. Lot# of pH strip: 6412003 pH checked Yes ☑ No ☐ pH<2 ☑ pH>9 ☐ pH>12 ☐ Lot# of Iodine strip: Lot# of Lead Acetate strip:
Do containers require preservation at the lab	Yes ☐ No ☑ NA ☐	14b. Preservation: / Lot#:
All containers needing preservation are found to be in Compliance with EPA recommendation **Exception:** VOA, coliform, O&G	Yes ☑ No ☐ NA ☐ Yes ☐ No ☑	14c.
Are soil samples (volatiles) received in	Bulk ☐ Terracore ☐ EnCore ☐ NA ☑	15.
Trip Blank present Trip Blank Custody Seals Intact Pace Trip Blank Lot# (if purchased):	Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑	16.
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☑	17.
Project sampled in USDA Regulated Area:	Yes ☐ No ☐ NA ☑	18. List State

Client Notification/Resolution/Comments:

Person Contacted: Date:

Comments/Resolution:

Person Examining Contents: Date: 1/12/16

F-DAL-C001rev.05 090215

Pace Analytical Services - Dallas

Sample Container Count-

COC PAGE 1 of 1

COC ID# _____

Pace Project # 4537195

Sample Line Item	AG1S	AG1U	AG3S	BG1S	BP1U	BP2N	BP2S	BP2U	BP20	SP5T	VG9H	DG9M	VG9U	VG9W	WGFU	WGKU	BP3C	GN	WG2U	BP3S				
1							1						3											
2							1						3											
3							1						3											
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Container Codes

AF	Air Filter	BP1A	1 liter NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic	R	terra core kit
AG1H	1L HCL Amber Glass	BP1N	1 liter HNO3 plastic	BP3U	250mL unpreserved plastic	SP5T	120mL Coliform Na Thiosulfate
AG1S	1L H2SO4 Amber Glass	BP1S	1 liter H2SO4 plastic	BP3Z	250mL NaOH, Zn Ac plastic	SP5U	120mL Coliform unpreserved
AG1T	1L Sodium Thiosulfate Amber	BP1U	1 liter unpreserved plastic	C	Air Cassettes	VG9H	40mL HCL clear vial
AG1U	1L Unpreserved Amber Glass	BP1Z	1 liter NaOH, Zn, Ac	DG9B	40mL Na Bisulfate amber vial	VG9T	40mL Na Thio. clear vial
AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plasti	DG9H	40mL HCL amber voa vial	VG9U	40mL unpreserved clear vial
AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	DG9M	40mL MeOH clear vial	VG9W	40mL Unpreserved Tared
AG2U	500mL unpreserved amber glas	BP2O	500mL NaOH plastic	DG9P	40mL TSP amber vial	VSG	Headspace septa vial & HCL
AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	DG9S	40mL H2SO4 amber vial	WGFU	4oz clear soil jar
AG3U	250mL unpreserved amber glas	BP2U	500mL unpreserved plastic	DG9T	40mL Na Thio amber vial	WGFX	4oz wide jar w/hexane wipe
BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac	DG9U	40mL unpreserved amber vial	WGKU	8oz wide jar upreserved
BG1S	1 liter H2SO4 clear glass	BP3A	250mL NaOh, Asc Acid plastic	GN	General unpreserved	WG2U	2oz clear jar
BG1T	1 liter Na Thiosulfate clear gla	BP3C	250mL NaOH plastic	I	Wipe/Swab	ZPLC	Ziploc Bag
BG1U	1 liter unpreserved glass	BP3N	250mL HNO3 plastic	JGFU	4oz unpreserved amber wide	Other	Other

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 26, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH AR
Pace Project No.: 60210924

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 09, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH AR
Pace Project No.: 60210924

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

Dallas Certification IDs:

400 West Bethany Dr Suite 190, Allen, TX 75013
EPA# TX00074
Texas Certification #: T104704232-15-12
Texas Certification #: T104704232-14-8
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 2014-055
Louisiana Certification #: 02007

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: FORT SMITH AR
Pace Project No.: 60210924

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60210924001	**TMW-10-201601**	Water	01/08/16 10:15	01/09/16 09:35
60210924002	**TMW-11-201601**	Water	01/08/16 10:05	01/09/16 09:35
60210924003	**MW-61R-201601**	Water	01/08/16 09:50	01/09/16 09:35
60210924004	**MW-33R-201601**	Water	01/08/16 13:10	01/09/16 09:35
60210924005	**FB-01-201601**	Water	01/08/16 14:40	01/09/16 09:35
60210924006	**TB-03-201601**	Water	01/08/16 08:00	01/09/16 09:35
60210924007	**MW-187-201601**	Water	01/08/16 13:25	01/09/16 09:35
60210924008	**MW-188-201601**	Water	01/08/16 13:20	01/09/16 09:35
60210924009	**TMW-11-201601**	Water	01/08/16 10:05	01/09/16 09:35
60210924010	**MW-61R-201601**	Water	01/08/16 09:50	01/09/16 09:35
60210924011	**MW-33R-201601**	Water	01/08/16 13:10	01/09/16 09:35
60210924012	**MW-187-201601**	Water	01/08/16 13:25	01/09/16 09:35
60210924013	**MW-188-201601**	Water	01/08/16 13:20	01/09/16 09:35

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60210924

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60210924001	**TMW-10-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210924002	**TMW-11-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210924003	**MW-61R-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210924004	**MW-33R-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210924005	**FB-01-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210924006	**TB-03-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210924007	**MW-187-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210924008	**MW-188-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210924009	**TMW-11-201601**	EPA 6010	TDS	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	RAB	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210924010	**MW-61R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	TDS	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	RAB	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210924011	**MW-33R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	TDS	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60210924

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	RAB	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210924012	**MW-187-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	TDS	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	RAB	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210924013	**MW-188-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	TDS	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	RAB	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **EPA 8015 - Alcohol**
Description: Alcohol by Direct Inject GCFID
Client: Environ_AR
Date: January 26, 2016

General Information:
4 samples were analyzed for EPA 8015 - Alcohol. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 26, 2016

General Information:
8 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73687

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **SM 3500-Fe B#4**
Description: Iron, Ferric (Calculation)
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for SM 3500-Fe B#4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Ferrous Fe performed in the field
- QC Batch: WET / 59732

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA recommended holding time.
- MW-187-201601 (Lab ID: 60210924012)
- MW-188-201601 (Lab ID: 60210924013)
- MW-33R-201601 (Lab ID: 60210924011)
- MW-61R-201601 (Lab ID: 60210924010)
- TMW-11-201601 (Lab ID: 60210924009)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Field pH
- QC Batch: WET / 59734

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Environ_AR
Date: January 26, 2016

General Information:
4 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **EPA 350.1**
Description: 350.1 Ammonia
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37683

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210860004,60210861003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1695607)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37663

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210924011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1695251)
  - Nitrogen, NO2 plus NO3
  - Nitrogen, Nitrate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **SM 4500-CO2 D**
Description: Total Carbon Dioxide Calc
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for SM 4500-CO2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **SM 5310C**
Description: 5310C TOC
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: Environ_AR
Date: January 26, 2016

General Information:
2 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **SM 4500-P E**
Description: SM4500P-E, Total Phosphorus
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for SM 4500-P E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with SM4500-P B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/10248

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210924012,7537074001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 195390)
  - Phosphate as P04

R1: RPD value was outside control limits.

- MSD (Lab ID: 195389)
  - Phosphate as P04
- MSD (Lab ID: 195391)
  - Phosphate as P04

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: TMW-10-201601 **Lab ID: 60210924001** Collected: 01/08/16 10:15 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/11/16 18:22	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/11/16 18:22	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/11/16 18:22	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/11/16 18:22	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/11/16 18:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/11/16 18:22	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/11/16 18:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/11/16 18:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/11/16 18:22	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/11/16 18:22	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/11/16 18:22	67-66-3	
Chloromethane	**0.14J**	ug/L	1.0	0.080	1		01/11/16 18:22	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/11/16 18:22	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/11/16 18:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/11/16 18:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 18:22	75-35-4	
cis-1,2-Dichloroethene	**3.1**	ug/L	1.0	0.080	1		01/11/16 18:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 18:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/11/16 18:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/11/16 18:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/11/16 18:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/11/16 18:22	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/11/16 18:22	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/11/16 18:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/11/16 18:22	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/11/16 18:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/11/16 18:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/11/16 18:22	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/11/16 18:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/11/16 18:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/11/16 18:22	79-00-5	
Trichloroethene	**103**	ug/L	1.0	0.17	1		01/11/16 18:22	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/11/16 18:22	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/11/16 18:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/11/16 18:22	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/11/16 18:22	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/11/16 18:22	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/11/16 18:22		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: TMW-11-201601 **Lab ID: 60210924002** Collected: 01/08/16 10:05 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**1120**	ug/L	50.0	9.4	5		01/11/16 18:51	67-64-1	
Benzene	**0.11J**	ug/L	1.0	0.060	1		01/11/16 18:37	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/11/16 18:37	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/11/16 18:37	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/11/16 18:37	74-83-9	
2-Butanone (MEK)	**902**	ug/L	10.0	0.59	1		01/11/16 18:37	78-93-3	
Carbon disulfide	**0.68J**	ug/L	5.0	0.12	1		01/11/16 18:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/11/16 18:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/11/16 18:37	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/11/16 18:37	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/11/16 18:37	67-66-3	
Chloromethane	**0.31J**	ug/L	1.0	0.080	1		01/11/16 18:37	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/11/16 18:37	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/11/16 18:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/11/16 18:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 18:37	75-35-4	
cis-1,2-Dichloroethene	**5.3**	ug/L	1.0	0.080	1		01/11/16 18:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 18:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/11/16 18:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/11/16 18:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/11/16 18:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/11/16 18:37	100-41-4	
2-Hexanone	**3.9J**	ug/L	10.0	1.2	1		01/11/16 18:37	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/11/16 18:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.1J**	ug/L	10.0	0.42	1		01/11/16 18:37	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/11/16 18:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/11/16 18:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/11/16 18:37	127-18-4	
Toluene	**0.44J**	ug/L	1.0	0.17	1		01/11/16 18:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/11/16 18:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/11/16 18:37	79-00-5	
Trichloroethene	**3.1**	ug/L	1.0	0.17	1		01/11/16 18:37	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/11/16 18:37	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/11/16 18:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/11/16 18:37	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/11/16 18:37	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/11/16 18:37	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/11/16 18:37		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: MW-61R-201601 **Lab ID: 60210924003** Collected: 01/08/16 09:50 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/11/16 17:38	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/11/16 17:38	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/11/16 17:38	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/11/16 17:38	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/11/16 17:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/11/16 17:38	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/11/16 17:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/11/16 17:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/11/16 17:38	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/11/16 17:38	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/11/16 17:38	67-66-3	
Chloromethane	**0.27J**	ug/L	1.0	0.080	1		01/11/16 17:38	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/11/16 17:38	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/11/16 17:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/11/16 17:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 17:38	75-35-4	
cis-1,2-Dichloroethene	**4.6**	ug/L	1.0	0.080	1		01/11/16 17:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 17:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/11/16 17:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/11/16 17:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/11/16 17:38	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/11/16 17:38	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/11/16 17:38	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/11/16 17:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/11/16 17:38	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/11/16 17:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/11/16 17:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/11/16 17:38	127-18-4	
Toluene	**0.23J**	ug/L	1.0	0.17	1		01/11/16 17:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/11/16 17:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/11/16 17:38	79-00-5	
Trichloroethene	**3.9**	ug/L	1.0	0.17	1		01/11/16 17:38	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/11/16 17:38	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/11/16 17:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/11/16 17:38	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		01/11/16 17:38	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/11/16 17:38	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/11/16 17:38		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: MW-33R-201601 **Lab ID: 60210924004** Collected: 01/08/16 13:10 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/11/16 19:06	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/11/16 19:06	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/11/16 19:06	75-27-4	
Bromoform	**0.31J**	ug/L	1.0	0.070	1		01/11/16 19:06	75-25-2	
Bromomethane	**1.1J**	ug/L	5.0	0.16	1		01/11/16 19:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/11/16 19:06	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/11/16 19:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/11/16 19:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/11/16 19:06	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/11/16 19:06	75-00-3	
Chloroform	**0.30J**	ug/L	1.0	0.14	1		01/11/16 19:06	67-66-3	
Chloromethane	**0.37J**	ug/L	1.0	0.080	1		01/11/16 19:06	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/11/16 19:06	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/11/16 19:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/11/16 19:06	107-06-2	
1,1-Dichloroethene	**0.54J**	ug/L	1.0	0.20	1		01/11/16 19:06	75-35-4	
cis-1,2-Dichloroethene	**7.6**	ug/L	1.0	0.080	1		01/11/16 19:06	156-59-2	
trans-1,2-Dichloroethene	**0.86J**	ug/L	1.0	0.20	1		01/11/16 19:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/11/16 19:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/11/16 19:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/11/16 19:06	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/11/16 19:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/11/16 19:06	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/11/16 19:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/11/16 19:06	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/11/16 19:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/11/16 19:06	79-34-5	
Tetrachloroethene	**0.13J**	ug/L	1.0	0.10	1		01/11/16 19:06	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/11/16 19:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/11/16 19:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/11/16 19:06	79-00-5	
Trichloroethene	**724**	ug/L	10.0	1.7	10		01/11/16 19:21	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/11/16 19:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/11/16 19:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/11/16 19:06	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		01/11/16 19:06	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/11/16 19:06	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/11/16 19:06		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: FB-01-201601 **Lab ID: 60210924005** Collected: 01/08/16 14:40 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/11/16 15:41	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/11/16 15:41	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/11/16 15:41	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/11/16 15:41	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/11/16 15:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/11/16 15:41	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/11/16 15:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/11/16 15:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/11/16 15:41	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/11/16 15:41	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/11/16 15:41	67-66-3	
Chloromethane	**0.22J**	ug/L	1.0	0.080	1		01/11/16 15:41	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/11/16 15:41	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/11/16 15:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/11/16 15:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 15:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/11/16 15:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 15:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/11/16 15:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/11/16 15:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/11/16 15:41	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/11/16 15:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/11/16 15:41	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/11/16 15:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/11/16 15:41	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/11/16 15:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/11/16 15:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/11/16 15:41	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/11/16 15:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/11/16 15:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/11/16 15:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/11/16 15:41	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/11/16 15:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/11/16 15:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/11/16 15:41	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/11/16 15:41	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/11/16 15:41	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/11/16 15:41		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: TB-03-201601 **Lab ID: 60210924006** Collected: 01/08/16 08:00 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/11/16 15:27	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/11/16 15:27	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/11/16 15:27	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/11/16 15:27	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/11/16 15:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/11/16 15:27	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/11/16 15:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/11/16 15:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/11/16 15:27	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/11/16 15:27	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/11/16 15:27	67-66-3	
Chloromethane	**0.17J**	ug/L	1.0	0.080	1		01/11/16 15:27	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/11/16 15:27	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/11/16 15:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/11/16 15:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 15:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/11/16 15:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 15:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/11/16 15:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/11/16 15:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/11/16 15:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/11/16 15:27	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/11/16 15:27	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/11/16 15:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/11/16 15:27	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/11/16 15:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/11/16 15:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/11/16 15:27	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/11/16 15:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/11/16 15:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/11/16 15:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/11/16 15:27	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/11/16 15:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/11/16 15:27	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/11/16 15:27	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/11/16 15:27	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/11/16 15:27	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/11/16 15:27		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: MW-187-201601 **Lab ID: 60210924007** Collected: 01/08/16 13:25 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/11/16 17:53	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/11/16 17:53	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/11/16 17:53	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/11/16 17:53	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/11/16 17:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/11/16 17:53	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/11/16 17:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/11/16 17:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/11/16 17:53	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/11/16 17:53	75-00-3	
Chloroform	**0.22J**	ug/L	1.0	0.14	1		01/11/16 17:53	67-66-3	
Chloromethane	**0.42J**	ug/L	1.0	0.080	1		01/11/16 17:53	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/11/16 17:53	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/11/16 17:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/11/16 17:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 17:53	75-35-4	
cis-1,2-Dichloroethene	**0.27J**	ug/L	1.0	0.080	1		01/11/16 17:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 17:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/11/16 17:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/11/16 17:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/11/16 17:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/11/16 17:53	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/11/16 17:53	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/11/16 17:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/11/16 17:53	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/11/16 17:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/11/16 17:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/11/16 17:53	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/11/16 17:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/11/16 17:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/11/16 17:53	79-00-5	
Trichloroethene	**0.22J**	ug/L	1.0	0.17	1		01/11/16 17:53	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/11/16 17:53	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/11/16 17:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/11/16 17:53	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/11/16 17:53	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/11/16 17:53	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/11/16 17:53		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: MW-188-201601 **Lab ID: 60210924008** Collected: 01/08/16 13:20 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/11/16 18:08	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/11/16 18:08	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/11/16 18:08	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/11/16 18:08	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/11/16 18:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/11/16 18:08	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/11/16 18:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/11/16 18:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/11/16 18:08	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/11/16 18:08	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/11/16 18:08	67-66-3	
Chloromethane	**0.23J**	ug/L	1.0	0.080	1		01/11/16 18:08	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/11/16 18:08	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/11/16 18:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/11/16 18:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 18:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/11/16 18:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 18:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/11/16 18:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/11/16 18:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/11/16 18:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/11/16 18:08	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/11/16 18:08	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/11/16 18:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/11/16 18:08	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/11/16 18:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/11/16 18:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/11/16 18:08	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/11/16 18:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/11/16 18:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/11/16 18:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/11/16 18:08	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/11/16 18:08	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/11/16 18:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/11/16 18:08	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/11/16 18:08	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/11/16 18:08	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/11/16 18:08		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: TMW-11-201601 **Lab ID: 60210924009** Collected: 01/08/16 10:05 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**20900**	ug/L	50.0	9.0	1	01/11/16 14:45	01/12/16 10:07	7439-89-6	
Manganese	**4090**	ug/L	5.0	2.4	1	01/11/16 14:45	01/12/16 10:07	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**1750**	mg/L	40.0	4.0	2		01/19/16 12:55		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	40.0	4.0	2		01/19/16 12:55		
Alkalinity, Total as CaCO3	**1750**	mg/L	40.0	4.0	2		01/19/16 12:55		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**17.9**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**7.2**	Std. Units	0.10	0.10	1		01/08/16 23:00		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**131**	mg/L	20.0	10.0	20		01/12/16 10:30	16887-00-6	
Sulfate	**1.2**	mg/L	1.0	0.24	1		01/12/16 10:13	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**1.9**	mg/L	0.10	0.046	1		01/12/16 13:46	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/09/16 12:28		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/09/16 12:28		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/09/16 12:28		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**1770**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**306**	mg/L	100	50.0	100		01/19/16 12:28	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**284**	mg/L	50.0	25.0	50		01/20/16 12:39	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.35**	mg/L	0.030	0.010	1	01/14/16 08:54	01/14/16 16:03		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: MW-61R-201601 **Lab ID: 60210924010** Collected: 01/08/16 09:50 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 14:10	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**27300**	ug/L	50.0	9.0	1	01/11/16 14:45	01/12/16 10:10	7439-89-6	
Manganese	**2850**	ug/L	5.0	2.4	1	01/11/16 14:45	01/12/16 10:10	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/19/16 10:48		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/19/16 10:48		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/19/16 10:48		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**24.3**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.8**	Std. Units	0.10	0.10	1		01/08/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/12/16 14:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**81.2**	mg/L	5.0	2.5	5		01/12/16 10:47	16887-00-6	
Sulfate	**12.1**	mg/L	1.0	0.24	1		01/12/16 20:49	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.98**	mg/L	0.10	0.046	1		01/12/16 13:47	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/09/16 12:29		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/09/16 12:29		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/09/16 12:29		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**7.7**	mg/L	2.0	1.0	2		01/19/16 12:41	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**4.0**	mg/L	1.0	0.50	1		01/20/16 13:05	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.18**	mg/L	0.030	0.010	1	01/14/16 08:54	01/14/16 16:03		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: MW-33R-201601 **Lab ID: 60210924011** Collected: 01/08/16 13:10 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 14:21	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**508**	ug/L	50.0	9.0	1	01/11/16 14:45	01/12/16 10:16	7439-89-6	
Manganese	**1990**	ug/L	5.0	2.4	1	01/11/16 14:45	01/12/16 10:16	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**33.3**	mg/L	20.0	2.0	1		01/19/16 12:03		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/19/16 12:03		
Alkalinity, Total as CaCO3	**33.3**	mg/L	20.0	2.0	1		01/19/16 12:03		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.51**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.2**	Std. Units	0.10	0.10	1		01/08/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:55	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**189**	mg/L	20.0	10.0	20		01/12/16 12:13	16887-00-6	
Sulfate	**121**	mg/L	20.0	4.7	20		01/12/16 12:13	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/12/16 13:48	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.4**	mg/L	0.10	0.014	1		01/09/16 12:30		M1
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/09/16 12:30		
Nitrogen, NO2 plus NO3	**2.4**	mg/L	0.10	0.014	1		01/09/16 12:30		M1
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**403**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/19/16 12:54	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.066**	mg/L	0.030	0.010	1	01/14/16 08:54	01/14/16 16:04		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: MW-187-201601 **Lab ID: 60210924012** Collected: 01/08/16 13:25 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 14:32	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**11100**	ug/L	50.0	9.0	1	01/11/16 14:45	01/12/16 10:19	7439-89-6	
Manganese	**253**	ug/L	5.0	2.4	1	01/11/16 14:45	01/12/16 10:19	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**217**	mg/L	20.0	2.0	1		01/19/16 12:20		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/19/16 12:20		
Alkalinity, Total as CaCO3	**234**	mg/L	20.0	2.0	1		01/19/16 12:20		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**11.1**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**9.8**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:55	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**89.9**	mg/L	10.0	5.0	10		01/12/16 12:48	16887-00-6	
Sulfate	**32.2**	mg/L	2.0	0.47	2		01/12/16 12:30	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/12/16 13:50	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**3.1**	mg/L	0.10	0.014	1		01/09/16 12:32		
Nitrogen, Nitrite	**0.19**	mg/L	0.10	0.023	1		01/09/16 12:32		
Nitrogen, NO2 plus NO3	**3.3**	mg/L	0.10	0.014	1		01/09/16 12:32		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**191**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/19/16 13:07	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.28**	mg/L	0.030	0.010	1	01/15/16 09:57	01/15/16 14:43		M1,R1

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: MW-188-201601 **Lab ID: 60210924013** Collected: 01/08/16 13:20 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 14:43	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**11700**	ug/L	50.0	9.0	1	01/11/16 14:45	01/12/16 10:21	7439-89-6	
Manganese	**250**	ug/L	5.0	2.4	1	01/11/16 14:45	01/12/16 10:21	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**115**	mg/L	20.0	2.0	1		01/19/16 12:24		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/19/16 12:24		
Alkalinity, Total as CaCO3	**115**	mg/L	20.0	2.0	1		01/19/16 12:24		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**11.1**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.3**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**159**	mg/L	10.0	5.0	10		01/12/16 13:22	16887-00-6	
Sulfate	**23.0**	mg/L	2.0	0.47	2		01/12/16 13:05	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/12/16 13:53	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**4.2**	mg/L	0.10	0.014	1		01/09/16 12:33		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/09/16 12:33		
Nitrogen, NO2 plus NO3	**4.2**	mg/L	0.10	0.014	1		01/09/16 12:33		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**225**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/19/16 13:20	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.48**	mg/L	0.030	0.010	1	01/15/16 09:57	01/15/16 14:44		

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: GCSV/4868 Analysis Method: EPA 8015 - Alcohol
QC Batch Method: EPA 8015 - Alcohol Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60210924010, 60210924011, 60210924012, 60210924013

METHOD BLANK: 194580 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/14/16 10:24	

LABORATORY CONTROL SAMPLE: 194581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	87400	87	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194582 194583

Parameter	Units	60210853011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	86700	70800	87	71	40-140	20	40	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: MPRP/34542 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

METHOD BLANK: 1695425 Matrix: Water
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	9.0	01/12/16 10:03	
Manganese	ug/L	ND	5.0	2.4	01/12/16 10:03	

LABORATORY CONTROL SAMPLE: 1695426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10000	100	80-120	
Manganese	ug/L	1000	1060	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1695427 1695428

Parameter	Units	60210924010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	27300	10000	10000	36400	36800	91	95	75-125	1	20	
Manganese	ug/L	2850	1000	1000	3820	3830	97	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: MSV/73687 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210924001, 60210924002, 60210924003, 60210924004, 60210924005, 60210924006, 60210924007, 60210924008

METHOD BLANK: 1695370 Matrix: Water
Associated Lab Samples: 60210924001, 60210924002, 60210924003, 60210924004, 60210924005, 60210924006, 60210924007, 60210924008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/11/16 14:58	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/11/16 14:58	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/11/16 14:58	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/11/16 14:58	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/11/16 14:58	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/11/16 14:58	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/11/16 14:58	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/11/16 14:58	
2-Hexanone	ug/L	ND	10.0	1.2	01/11/16 14:58	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/11/16 14:58	
Acetone	ug/L	ND	10.0	1.9	01/11/16 14:58	
Benzene	ug/L	ND	1.0	0.060	01/11/16 14:58	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/11/16 14:58	
Bromoform	ug/L	ND	1.0	0.070	01/11/16 14:58	
Bromomethane	ug/L	ND	5.0	0.16	01/11/16 14:58	
Carbon disulfide	ug/L	ND	5.0	0.12	01/11/16 14:58	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/11/16 14:58	
Chlorobenzene	ug/L	ND	1.0	0.21	01/11/16 14:58	
Chloroethane	ug/L	ND	1.0	0.15	01/11/16 14:58	
Chloroform	ug/L	ND	1.0	0.14	01/11/16 14:58	
Chloromethane	ug/L	ND	1.0	0.080	01/11/16 14:58	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/11/16 14:58	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/11/16 14:58	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/11/16 14:58	
Ethylbenzene	ug/L	ND	1.0	0.18	01/11/16 14:58	
Methylene chloride	ug/L	ND	1.0	0.15	01/11/16 14:58	
Styrene	ug/L	ND	1.0	0.12	01/11/16 14:58	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/11/16 14:58	
Toluene	ug/L	ND	1.0	0.17	01/11/16 14:58	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/11/16 14:58	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/11/16 14:58	
Trichloroethene	ug/L	ND	1.0	0.17	01/11/16 14:58	
Vinyl chloride	ug/L	ND	1.0	0.13	01/11/16 14:58	
Xylene (Total)	ug/L	ND	3.0	0.42	01/11/16 14:58	
1,2-Dichloroethane-d4 (S)	%	101	80-120		01/11/16 14:58	
4-Bromofluorobenzene (S)	%	100	80-120		01/11/16 14:58	
Toluene-d8 (S)	%	104	80-120		01/11/16 14:58	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

LABORATORY CONTROL SAMPLE: 1695371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.8	99	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	73-121	
1,1,2-Trichloroethane	ug/L	20	18.3	91	80-120	
1,1-Dichloroethane	ug/L	20	21.5	107	80-120	
1,1-Dichloroethene	ug/L	20	18.9	95	80-120	
1,2-Dichloroethane	ug/L	20	19.7	98	81-120	
1,2-Dichloropropane	ug/L	20	19.5	97	80-120	
2-Butanone (MEK)	ug/L	100	108	108	67-122	
2-Hexanone	ug/L	100	109	109	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	76-120	
Acetone	ug/L	100	120	120	72-120	
Benzene	ug/L	20	20.7	104	80-120	
Bromodichloromethane	ug/L	20	19.6	98	80-120	
Bromoform	ug/L	20	18.9	95	73-138	
Bromomethane	ug/L	20	23.1	115	38-137	
Carbon disulfide	ug/L	20	21.6	108	71-129	
Carbon tetrachloride	ug/L	20	19.3	97	67-146	
Chlorobenzene	ug/L	20	20.3	101	80-120	
Chloroethane	ug/L	20	22.5	112	76-120	
Chloroform	ug/L	20	19.0	95	80-120	
Chloromethane	ug/L	20	22.2	111	34-165	
cis-1,2-Dichloroethene	ug/L	20	20.0	100	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.9	99	80-120	
Dibromochloromethane	ug/L	20	20.0	100	80-126	
Ethylbenzene	ug/L	20	21.4	107	80-120	
Methylene chloride	ug/L	20	20.9	105	80-120	
Styrene	ug/L	20	22.0	110	80-123	
Tetrachloroethene	ug/L	20	19.6	98	80-123	
Toluene	ug/L	20	20.6	103	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.6	98	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.8	104	80-129	
Trichloroethene	ug/L	20	18.8	94	80-120	
Vinyl chloride	ug/L	20	22.0	110	62-125	
Xylene (Total)	ug/L	60	65.3	109	80-120	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WET/59532 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

METHOD BLANK: 1696168 Matrix: Water
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/19/16 09:06	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/19/16 09:06	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/19/16 09:06	

LABORATORY CONTROL SAMPLE: 1696169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	484	97	90-110	

SAMPLE DUPLICATE: 1696170

Parameter	Units	60210963002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	<2.0	ND		10	
Alkalinity, Total as CaCO3	mg/L	220	213	4	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	220	213	4	10	

SAMPLE DUPLICATE: 1696171

Parameter	Units	60210853017 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	70.7	72.0	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	70.7	72.0	2	10	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WET/59509
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60210924010

METHOD BLANK: 1695546 Matrix: Water
Associated Lab Samples: 60210924010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/12/16 13:59	

LABORATORY CONTROL SAMPLE: 1695547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.52	103	80-120	

MATRIX SPIKE SAMPLE: 1695548

Parameter	Units	10335385005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.48	96	75-125	

SAMPLE DUPLICATE: 1695549

Parameter	Units	60210763003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1695550

Parameter	Units	60210853012 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WET/59530 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60210924011, 60210924012, 60210924013

METHOD BLANK: 1696147 Matrix: Water
Associated Lab Samples: 60210924011, 60210924012, 60210924013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/13/16 13:39	

LABORATORY CONTROL SAMPLE: 1696148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.52	105	80-120	

MATRIX SPIKE SAMPLE: 1696149

Parameter	Units	60210924011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.40	81	75-125	

SAMPLE DUPLICATE: 1696150

Parameter	Units	60210924012 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1696151

Parameter	Units	60210967019 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WETA/37671 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

METHOD BLANK: 1695512 Matrix: Water
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/12/16 09:38	
Sulfate	mg/L	ND	1.0	0.25	01/12/16 09:38	

LABORATORY CONTROL SAMPLE: 1695513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1695514 1695515

Parameter	Units	60210882006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	121	100	100	213	210	92	88	80-120	2	15	
Sulfate	mg/L	121	100	100	241	236	120	115	80-120	2	15	

MATRIX SPIKE SAMPLE: 1695516

Parameter	Units	60210808002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	333	125	444	89	80-120	
Sulfate	mg/L	262	125	369	86	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WETA/37683 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

METHOD BLANK: 1695605 Matrix: Water
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/12/16 13:28	

LABORATORY CONTROL SAMPLE: 1695606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 1695607

Parameter	Units	60210860004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.4	115	90-110	M1

MATRIX SPIKE SAMPLE: 1695608

Parameter	Units	60210861003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.2	107	90-110	

SAMPLE DUPLICATE: 1695609

Parameter	Units	60210887002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	39.9	38.9	2	18	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WETA/37663 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

METHOD BLANK: 1695249 Matrix: Water
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.014	01/09/16 12:26	
Nitrogen, Nitrite	mg/L	ND	0.10	0.023	01/09/16 12:26	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	0.014	01/09/16 12:26	

LABORATORY CONTROL SAMPLE: 1695250

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	97	85-115	
Nitrogen, Nitrite	mg/L	.4	0.38	95	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	1.9	97	90-110	

MATRIX SPIKE SAMPLE: 1695251

Parameter	Units	60210924011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.4	1.6	3.7	82	85-115	M1
Nitrogen, Nitrite	mg/L	ND	.4	0.40	99	90-110	
Nitrogen, NO2 plus NO3	mg/L	2.4	2	4.1	85	90-110	M1

SAMPLE DUPLICATE: 1695252

Parameter	Units	60210924012 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	3.1	3.1	0	20	
Nitrogen, Nitrite	mg/L	0.19	0.18	4	20	
Nitrogen, NO2 plus NO3	mg/L	3.3	3.3	0	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WETA/37721 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

METHOD BLANK: 1696971 Matrix: Water
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/19/16 09:40	

LABORATORY CONTROL SAMPLE: 1696972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.6	112	80-120	

MATRIX SPIKE SAMPLE: 1696973

Parameter	Units	60210855001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.9	5	5.9	80	80-120	

SAMPLE DUPLICATE: 1696974

Parameter	Units	60210856002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	7.5	7.6	2	25	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WETA/37790 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 60210924009, 60210924010

METHOD BLANK: 1699293 Matrix: Water
Associated Lab Samples: 60210924009, 60210924010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.50	01/20/16 12:00	

LABORATORY CONTROL SAMPLE: 1699294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.5	110	80-120	

MATRIX SPIKE SAMPLE: 1699295

Parameter	Units	60210924009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	284	250	553	108	80-120	

SAMPLE DUPLICATE: 1699296

Parameter	Units	60210924010 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	4.0	4.1	2	25	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WETA/10233 Analysis Method: SM 4500-P E
QC Batch Method: SM4500-P B Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60210924009, 60210924010, 60210924011

METHOD BLANK: 194859 Matrix: Water
Associated Lab Samples: 60210924009, 60210924010, 60210924011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.014J	0.030	0.010	01/14/16 15:52	

LABORATORY CONTROL SAMPLE: 194860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.4	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194861 194862

Parameter	Units	7536279002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.032	1.5	1.5	1.4	1.4	88	88	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194863 194864

Parameter	Units	7536858001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.077	1.5	1.5	1.4	1.4	87	89	80-120	2	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WETA/10248 Analysis Method: SM 4500-P E
QC Batch Method: SM4500-P B Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60210924012, 60210924013

METHOD BLANK: 195386 Matrix: Water
Associated Lab Samples: 60210924012, 60210924013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.014J	0.030	0.010	01/15/16 14:35	

LABORATORY CONTROL SAMPLE: 195387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.3	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195388 195389

Parameter	Units	7537074001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.091	1.5	1.5	1.9	1.4	117	88	80-120	27	20	R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195390 195391

Parameter	Units	60210924012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.28	1.5	1.5	2.4	1.5	139	80	80-120	46	20	M1,R1

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QUALIFIERS

Project: FORT SMITH AR
Pace Project No.: 60210924

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-D	Pace Analytical Services - Dallas
PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73687

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: WET/59732

[1] Ferrous Fe performed in the field

Batch: WET/59734

[1] Field pH

ANALYTE QUALIFIERS

H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60210924

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210924010	**MW-61R-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210924011	**MW-33R-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210924012	**MW-187-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210924013	**MW-188-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210924009	**TMW-11-201601**	EPA 3010	MPRP/34542	EPA 6010	ICP/25342
60210924010	**MW-61R-201601**	EPA 3010	MPRP/34542	EPA 6010	ICP/25342
60210924011	**MW-33R-201601**	EPA 3010	MPRP/34542	EPA 6010	ICP/25342
60210924012	**MW-187-201601**	EPA 3010	MPRP/34542	EPA 6010	ICP/25342
60210924013	**MW-188-201601**	EPA 3010	MPRP/34542	EPA 6010	ICP/25342
60210924001	**TMW-10-201601**	EPA 5030B/8260	MSV/73687		
60210924002	**TMW-11-201601**	EPA 5030B/8260	MSV/73687		
60210924003	**MW-61R-201601**	EPA 5030B/8260	MSV/73687		
60210924004	**MW-33R-201601**	EPA 5030B/8260	MSV/73687		
60210924005	**FB-01-201601**	EPA 5030B/8260	MSV/73687		
60210924006	**TB-03-201601**	EPA 5030B/8260	MSV/73687		
60210924007	**MW-187-201601**	EPA 5030B/8260	MSV/73687		
60210924008	**MW-188-201601**	EPA 5030B/8260	MSV/73687		
60210924009	**TMW-11-201601**	SM 2320B	WET/59532		
60210924010	**MW-61R-201601**	SM 2320B	WET/59532		
60210924011	**MW-33R-201601**	SM 2320B	WET/59532		
60210924012	**MW-187-201601**	SM 2320B	WET/59532		
60210924013	**MW-188-201601**	SM 2320B	WET/59532		
60210924009	**TMW-11-201601**	SM 3500-Fe B#4	WET/59732		
60210924010	**MW-61R-201601**	SM 3500-Fe B#4	WET/59732		
60210924011	**MW-33R-201601**	SM 3500-Fe B#4	WET/59732		
60210924012	**MW-187-201601**	SM 3500-Fe B#4	WET/59732		
60210924013	**MW-188-201601**	SM 3500-Fe B#4	WET/59732		
60210924009	**TMW-11-201601**	SM 4500-H+B	WET/59734		
60210924010	**MW-61R-201601**	SM 4500-H+B	WET/59734		
60210924011	**MW-33R-201601**	SM 4500-H+B	WET/59734		
60210924012	**MW-187-201601**	SM 4500-H+B	WET/59734		
60210924013	**MW-188-201601**	SM 4500-H+B	WET/59734		
60210924010	**MW-61R-201601**	SM 4500-S-2 D	WET/59509		
60210924011	**MW-33R-201601**	SM 4500-S-2 D	WET/59530		
60210924012	**MW-187-201601**	SM 4500-S-2 D	WET/59530		
60210924013	**MW-188-201601**	SM 4500-S-2 D	WET/59530		
60210924009	**TMW-11-201601**	EPA 300.0	WETA/37671		
60210924010	**MW-61R-201601**	EPA 300.0	WETA/37671		
60210924011	**MW-33R-201601**	EPA 300.0	WETA/37671		
60210924012	**MW-187-201601**	EPA 300.0	WETA/37671		
60210924013	**MW-188-201601**	EPA 300.0	WETA/37671		
60210924009	**TMW-11-201601**	EPA 350.1	WETA/37683		
60210924010	**MW-61R-201601**	EPA 350.1	WETA/37683		
60210924011	**MW-33R-201601**	EPA 350.1	WETA/37683		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60210924

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210924012	**MW-187-201601**	EPA 350.1	WETA/37683		
60210924013	**MW-188-201601**	EPA 350.1	WETA/37683		
60210924009	**TMW-11-201601**	EPA 353.2	WETA/37663		
60210924010	**MW-61R-201601**	EPA 353.2	WETA/37663		
60210924011	**MW-33R-201601**	EPA 353.2	WETA/37663		
60210924012	**MW-187-201601**	EPA 353.2	WETA/37663		
60210924013	**MW-188-201601**	EPA 353.2	WETA/37663		
60210924009	**TMW-11-201601**	SM 4500-CO2 D	WETA/37869		
60210924010	**MW-61R-201601**	SM 4500-CO2 D	WETA/37869		
60210924011	**MW-33R-201601**	SM 4500-CO2 D	WETA/37869		
60210924012	**MW-187-201601**	SM 4500-CO2 D	WETA/37869		
60210924013	**MW-188-201601**	SM 4500-CO2 D	WETA/37869		
60210924009	**TMW-11-201601**	SM 5310C	WETA/37721		
60210924010	**MW-61R-201601**	SM 5310C	WETA/37721		
60210924011	**MW-33R-201601**	SM 5310C	WETA/37721		
60210924012	**MW-187-201601**	SM 5310C	WETA/37721		
60210924013	**MW-188-201601**	SM 5310C	WETA/37721		
60210924009	**TMW-11-201601**	SM 5310C	WETA/37790		
60210924010	**MW-61R-201601**	SM 5310C	WETA/37790		
60210924009	**TMW-11-201601**	SM4500-P B	WETA/10233	SM 4500-P E	WETA/10242
60210924010	**MW-61R-201601**	SM4500-P B	WETA/10233	SM 4500-P E	WETA/10242
60210924011	**MW-33R-201601**	SM4500-P B	WETA/10233	SM 4500-P E	WETA/10242
60210924012	**MW-187-201601**	SM4500-P B	WETA/10248	SM 4500-P E	WETA/10256
60210924013	**MW-188-201601**	SM4500-P B	WETA/10248	SM 4500-P E	WETA/10256

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Sample Condition Upon Receipt

WO# : 60210924

60210924

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☒ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: 8044 0381 4718 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☒ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.8

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JB 1/9

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 holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. Na_2SO_3 pH
Rush Turn Around Time requested:	☒Yes ☐No ☐N/A	7. VOC, only 24hr
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC:	☒Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	14.
Exceptions: (VOA), Coliform, O&G, WI-DRO (water)	☒Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☒Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): Covered		15.
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☒N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / (N)

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CRB Date: 01/11/16

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	See Comments

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	39375000

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED DATE	COLLECTED 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 Y/N	8260 VOCs	Alkalinity	TOC (MW-61R + TMW-11)	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TMW-10-201601 BP3N (2)AG3S	WT	G	(3)DG9H					3				X						X											60210924
2	TMW-11-201601 BP3N (2)AG3S			(3)DG9H		(3)DG9H			8	X	X	X	X						X	X	X	X		X	X		X		BP3S BP3N	
3	MW-61R-201601 BAG3S					(3)DG9H			12	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	BP3Z	
4	MW-33R-201601 AG3S								11	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X		
5	FB-01-201601			(3)DG9H					3				X						X	X	X	X	X	X	X	X	X	X	X		
6	TB-03-201601			(2)DG9H					2				X						X												
7	MW-187-201601 BP3N AG3S								11	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X		
8	MW-188-201601								11	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X		
9																															
10																															
11																															
12																															

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Lucy Cross / Ramboll Environ	1/8/15			1/9	0935	2.8	Y	Y	Y
DOC filtered in field										
24hr TAT VOCs only										
Standard TAT for all other analy ses.										

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Lucy Cross					
SIGNATURE of SAMPLER:	Lucy Cross	DATE Signed (MM/DD/YY): 01/08/16				

*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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
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January 27, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60210967

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

Dallas Certification IDs:

400 West Bethany Dr Suite 190, Allen, TX 75013
EPA# TX00074
Texas Certification #: T104704232-15-12
Texas Certification #: T104704232-14-8
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 2014-055
Louisiana Certification #: 02007

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60210967

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60210967001	**MW-34R-201601**	Water	01/11/16 10:45	01/12/16 07:50
60210967002	**MW-35R-201601**	Water	01/11/16 12:15	01/12/16 07:50
60210967003	**MW-36R-201601**	Water	01/11/16 10:20	01/12/16 07:50
60210967004	**MW-65-201601**	Water	01/11/16 12:35	01/12/16 07:50
60210967005	**MW-81-201601**	Water	01/11/16 17:00	01/12/16 07:50
60210967006	**MW-82-201601**	Water	01/11/16 15:30	01/12/16 07:50
60210967007	**IW-77-201601**	Water	01/11/16 15:15	01/12/16 07:50
60210967008	**IW-78-201601**	Water	01/11/16 10:30	01/12/16 07:50
60210967009	**IW-79-201601**	Water	01/11/16 12:25	01/12/16 07:50
60210967010	**IW-115-201601**	Water	01/11/16 14:15	01/12/16 07:50
60210967011	**TB-01-201601**	Water	01/11/16 08:00	01/12/16 07:50
60210967012	**TB-02-201601**	Water	01/11/16 08:00	01/12/16 07:50
60210967013	**MW-34R-201601**	Water	01/11/16 10:45	01/12/16 07:50
60210967014	**MW-35R-201601**	Water	01/11/16 12:15	01/12/16 07:50
60210967015	**MW-36R-201601**	Water	01/11/16 10:20	01/12/16 07:50
60210967016	**MW-65-201601**	Water	01/11/16 12:35	01/12/16 07:50
60210967017	**MW-81-201601**	Water	01/11/16 17:00	01/12/16 07:50
60210967018	**MW-82-201601**	Water	01/11/16 15:30	01/12/16 07:50
60210967019	**IW-77-201601**	Water	01/11/16 15:15	01/12/16 07:50

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210967

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60210967001	**MW-34R-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967002	**MW-35R-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967003	**MW-36R-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967004	**MW-65-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967005	**MW-81-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967006	**MW-82-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967007	**IW-77-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967008	**IW-78-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967009	**IW-79-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967010	**IW-115-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967011	**TB-01-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967012	**TB-02-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967013	**MW-34R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210967014	**MW-35R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210967015	**MW-36R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210967

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	SMW	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210967016	**MW-65-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210967017	**MW-81-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210967018	**MW-82-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210967

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210967019	**IW-77-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **EPA 8015 - Alcohol**
Description: Alcohol by Direct Inject GCFID
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for EPA 8015 - Alcohol. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 27, 2016

General Information:
12 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73722

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73723

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **SM 3500-Fe B#4**
Description: Iron, Ferric (Calculation)
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for SM 3500-Fe B#4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Ferrous Fe performed in the field
- QC Batch: WET / 59747

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- IW-77-201601 (Lab ID: 60210967019)
- MW-34R-201601 (Lab ID: 60210967013)
- MW-35R-201601 (Lab ID: 60210967014)
- MW-36R-201601 (Lab ID: 60210967015)
- MW-65-201601 (Lab ID: 60210967016)
- MW-81-201601 (Lab ID: 60210967017)
- MW-82-201601 (Lab ID: 60210967018)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Field pH
- QC Batch: WET / 59755

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **EPA 350.1**
Description: 350.1 Ammonia
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37685

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210951002,60210957002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1695933)
  - Nitrogen, NO2 plus NO3
  - Nitrogen, Nitrate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **SM 4500-CO2 D**
Description: Total Carbon Dioxide Calc
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for SM 4500-CO2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **SM 5310C**
Description: 5310C TOC
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **SM 4500-P E**
Description: SM4500P-E, Total Phosphorus
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for SM 4500-P E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with SM4500-P B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/10263

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210967013,60210974003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 195831)
  - Phosphate as P04
- MS (Lab ID: 195833)
  - Phosphate as P04
- MSD (Lab ID: 195832)
  - Phosphate as P04
- MSD (Lab ID: 195834)
  - Phosphate as P04

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-34R-201601 **Lab ID: 60210967001** Collected: 01/11/16 10:45 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**22.1**	ug/L	10.0	1.9	1		01/13/16 09:55	67-64-1	
Benzene	**0.12J**	ug/L	1.0	0.060	1		01/13/16 09:55	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 09:55	75-27-4	
Bromoform	**1.2**	ug/L	1.0	0.070	1		01/13/16 09:55	75-25-2	
Bromomethane	**1.5J**	ug/L	5.0	0.16	1		01/13/16 09:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 09:55	78-93-3	
Carbon disulfide	**4.7J**	ug/L	5.0	0.12	1		01/13/16 09:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 09:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 09:55	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 09:55	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 09:55	67-66-3	
Chloromethane	**1.6**	ug/L	1.0	0.080	1		01/13/16 09:55	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 09:55	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 09:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 09:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 09:55	75-35-4	
cis-1,2-Dichloroethene	**0.30J**	ug/L	1.0	0.080	1		01/13/16 09:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 09:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 09:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 09:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 09:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 09:55	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 09:55	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 09:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 09:55	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 09:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 09:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 09:55	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 09:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 09:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 09:55	79-00-5	
Trichloroethene	**2.6**	ug/L	1.0	0.17	1		01/13/16 09:55	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 09:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 09:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 09:55	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 09:55	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/13/16 09:55	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 09:55		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-35R-201601 **Lab ID: 60210967002** Collected: 01/11/16 12:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**38.8**	ug/L	10.0	1.9	1		01/13/16 11:22	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 11:22	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 11:22	75-27-4	
Bromoform	**1.5**	ug/L	1.0	0.070	1		01/13/16 11:22	75-25-2	
Bromomethane	**31.5**	ug/L	5.0	0.16	1		01/13/16 11:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 11:22	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 11:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 11:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 11:22	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 11:22	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 11:22	67-66-3	
Chloromethane	**33.9**	ug/L	1.0	0.080	1		01/13/16 11:22	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 11:22	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 11:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 11:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 11:22	75-35-4	
cis-1,2-Dichloroethene	**0.34J**	ug/L	1.0	0.080	1		01/13/16 11:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 11:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 11:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 11:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 11:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 11:22	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 11:22	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 11:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 11:22	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 11:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 11:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 11:22	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 11:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 11:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 11:22	79-00-5	
Trichloroethene	**13.2**	ug/L	1.0	0.17	1		01/13/16 11:22	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 11:22	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 11:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/13/16 11:22	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/13/16 11:22	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/13/16 11:22	2037-26-5	
Preservation pH	**4.0**		0.10	0.10	1		01/13/16 11:22		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-36R-201601 **Lab ID: 60210967003** Collected: 01/11/16 10:20 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**19.8**	ug/L	10.0	1.9	1		01/13/16 10:39	67-64-1	
Benzene	**0.22J**	ug/L	1.0	0.060	1		01/13/16 10:39	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 10:39	75-27-4	
Bromoform	**1.1**	ug/L	1.0	0.070	1		01/13/16 10:39	75-25-2	
Bromomethane	**54.9**	ug/L	5.0	0.16	1		01/13/16 10:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 10:39	78-93-3	
Carbon disulfide	**0.51J**	ug/L	5.0	0.12	1		01/13/16 10:39	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 10:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 10:39	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 10:39	75-00-3	
Chloroform	**0.23J**	ug/L	1.0	0.14	1		01/13/16 10:39	67-66-3	
Chloromethane	**23.4**	ug/L	1.0	0.080	1		01/13/16 10:39	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 10:39	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 10:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 10:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 10:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 10:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 10:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 10:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 10:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 10:39	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 10:39	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 10:39	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 10:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 10:39	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 10:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 10:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 10:39	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 10:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 10:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 10:39	79-00-5	
Trichloroethene	**0.31J**	ug/L	1.0	0.17	1		01/13/16 10:39	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 10:39	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 10:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 10:39	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	80-120		1		01/13/16 10:39	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		01/13/16 10:39	2037-26-5	
Preservation pH	**2.0**		0.10	0.10	1		01/13/16 10:39		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-65-201601 **Lab ID: 60210967004** Collected: 01/11/16 12:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**59.3**	ug/L	10.0	1.9	1		01/13/16 10:09	67-64-1	
Benzene	**0.34J**	ug/L	1.0	0.060	1		01/13/16 10:09	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 10:09	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 10:09	75-25-2	
Bromomethane	**1.2J**	ug/L	5.0	0.16	1		01/13/16 10:09	74-83-9	
2-Butanone (MEK)	**5.5J**	ug/L	10.0	0.59	1		01/13/16 10:09	78-93-3	
Carbon disulfide	**0.13J**	ug/L	5.0	0.12	1		01/13/16 10:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 10:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 10:09	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 10:09	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 10:09	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 10:09	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 10:09	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 10:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 10:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 10:09	75-35-4	
cis-1,2-Dichloroethene	**0.32J**	ug/L	1.0	0.080	1		01/13/16 10:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 10:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 10:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 10:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 10:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 10:09	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 10:09	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 10:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 10:09	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 10:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 10:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 10:09	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 10:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 10:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 10:09	79-00-5	
Trichloroethene	**14.5**	ug/L	1.0	0.17	1		01/13/16 10:09	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 10:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 10:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/13/16 10:09	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/13/16 10:09	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/13/16 10:09	2037-26-5	
Preservation pH	**7.0**		0.10	0.10	1		01/13/16 10:09		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-81-201601 **Lab ID: 60210967005** Collected: 01/11/16 17:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**20.8**	ug/L	10.0	1.9	1		01/13/16 11:51	67-64-1	
Benzene	**0.10J**	ug/L	1.0	0.060	1		01/13/16 11:51	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 11:51	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 11:51	75-25-2	
Bromomethane	**11.6**	ug/L	5.0	0.16	1		01/13/16 11:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 11:51	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 11:51	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 11:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 11:51	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 11:51	75-00-3	
Chloroform	**0.18J**	ug/L	1.0	0.14	1		01/13/16 11:51	67-66-3	
Chloromethane	**3.5**	ug/L	1.0	0.080	1		01/13/16 11:51	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 11:51	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 11:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 11:51	107-06-2	
1,1-Dichloroethene	**0.48J**	ug/L	1.0	0.20	1		01/13/16 11:51	75-35-4	
cis-1,2-Dichloroethene	**3.9**	ug/L	1.0	0.080	1		01/13/16 11:51	156-59-2	
trans-1,2-Dichloroethene	**0.48J**	ug/L	1.0	0.20	1		01/13/16 11:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 11:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 11:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 11:51	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 11:51	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 11:51	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 11:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 11:51	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 11:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 11:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 11:51	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 11:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 11:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 11:51	79-00-5	
Trichloroethene	**157**	ug/L	1.0	0.17	1		01/13/16 11:51	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 11:51	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 11:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 11:51	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/13/16 11:51	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/13/16 11:51	2037-26-5	
Preservation pH	**3.0**		0.10	0.10	1		01/13/16 11:51		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-82-201601 **Lab ID: 60210967006** Collected: 01/11/16 15:30 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**31.4**	ug/L	10.0	1.9	1		01/13/16 10:53	67-64-1	
Benzene	**0.17J**	ug/L	1.0	0.060	1		01/13/16 10:53	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 10:53	75-27-4	
Bromoform	**0.15J**	ug/L	1.0	0.070	1		01/13/16 10:53	75-25-2	
Bromomethane	**5.2**	ug/L	5.0	0.16	1		01/13/16 10:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 10:53	78-93-3	
Carbon disulfide	**0.84J**	ug/L	5.0	0.12	1		01/13/16 10:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 10:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 10:53	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 10:53	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 10:53	67-66-3	
Chloromethane	**5.4**	ug/L	1.0	0.080	1		01/13/16 10:53	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 10:53	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 10:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 10:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 10:53	75-35-4	
cis-1,2-Dichloroethene	**0.18J**	ug/L	1.0	0.080	1		01/13/16 10:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 10:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 10:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 10:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 10:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 10:53	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 10:53	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 10:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 10:53	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 10:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 10:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 10:53	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 10:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 10:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 10:53	79-00-5	
Trichloroethene	**5.6**	ug/L	1.0	0.17	1		01/13/16 10:53	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 10:53	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 10:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 10:53	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 10:53	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/13/16 10:53	2037-26-5	
Preservation pH	**3.0**		0.10	0.10	1		01/13/16 10:53		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: IW-77-201601 **Lab ID: 60210967007** Collected: 01/11/16 15:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**19.5**	ug/L	10.0	1.9	1		01/13/16 11:08	67-64-1	
Benzene	**0.11J**	ug/L	1.0	0.060	1		01/13/16 11:08	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 11:08	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 11:08	75-25-2	
Bromomethane	**5.3**	ug/L	5.0	0.16	1		01/13/16 11:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 11:08	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 11:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 11:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 11:08	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 11:08	75-00-3	
Chloroform	**0.26J**	ug/L	1.0	0.14	1		01/13/16 11:08	67-66-3	
Chloromethane	**6.1**	ug/L	1.0	0.080	1		01/13/16 11:08	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 11:08	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 11:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 11:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 11:08	75-35-4	
cis-1,2-Dichloroethene	**1.3**	ug/L	1.0	0.080	1		01/13/16 11:08	156-59-2	
trans-1,2-Dichloroethene	**0.26J**	ug/L	1.0	0.20	1		01/13/16 11:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 11:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 11:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 11:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 11:08	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 11:08	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 11:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 11:08	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 11:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 11:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 11:08	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 11:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 11:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 11:08	79-00-5	
Trichloroethene	**95.3**	ug/L	1.0	0.17	1		01/13/16 11:08	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 11:08	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 11:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/13/16 11:08	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/13/16 11:08	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/13/16 11:08	2037-26-5	
Preservation pH	**4.0**		0.10	0.10	1		01/13/16 11:08		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: IW-78-201601 **Lab ID: 60210967008** Collected: 01/11/16 10:30 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**20.2**	ug/L	10.0	1.9	1		01/13/16 11:37	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 11:37	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 11:37	75-27-4	
Bromoform	**1.5**	ug/L	1.0	0.070	1		01/13/16 11:37	75-25-2	
Bromomethane	**7.8**	ug/L	5.0	0.16	1		01/13/16 11:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 11:37	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 11:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 11:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 11:37	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 11:37	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 11:37	67-66-3	
Chloromethane	**5.4**	ug/L	1.0	0.080	1		01/13/16 11:37	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 11:37	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 11:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 11:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 11:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 11:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 11:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 11:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 11:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 11:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 11:37	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 11:37	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 11:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 11:37	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 11:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 11:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 11:37	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 11:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 11:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 11:37	79-00-5	
Trichloroethene	**1.5**	ug/L	1.0	0.17	1		01/13/16 11:37	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 11:37	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 11:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 11:37	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		01/13/16 11:37	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/13/16 11:37	2037-26-5	
Preservation pH	**2.0**		0.10	0.10	1		01/13/16 11:37		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: IW-79-201601 **Lab ID: 60210967009** Collected: 01/11/16 12:25 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**12.6**	ug/L	10.0	1.9	1		01/13/16 10:24	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 10:24	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 10:24	75-27-4	
Bromoform	**0.48J**	ug/L	1.0	0.070	1		01/13/16 10:24	75-25-2	
Bromomethane	**1.6J**	ug/L	5.0	0.16	1		01/13/16 10:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 10:24	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 10:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 10:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 10:24	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 10:24	75-00-3	
Chloroform	**0.14J**	ug/L	1.0	0.14	1		01/13/16 10:24	67-66-3	
Chloromethane	**3.3**	ug/L	1.0	0.080	1		01/13/16 10:24	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 10:24	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 10:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 10:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 10:24	75-35-4	
cis-1,2-Dichloroethene	**1.4**	ug/L	1.0	0.080	1		01/13/16 10:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 10:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 10:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 10:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 10:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 10:24	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 10:24	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 10:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 10:24	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 10:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 10:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 10:24	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 10:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 10:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 10:24	79-00-5	
Trichloroethene	**70.0**	ug/L	1.0	0.17	1		01/13/16 10:24	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 10:24	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 10:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/13/16 10:24	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/13/16 10:24	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/13/16 10:24	2037-26-5	
Preservation pH	**5.0**		0.10	0.10	1		01/13/16 10:24		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: IW-115-201601 **Lab ID: 60210967010** Collected: 01/11/16 14:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 12:20	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 12:20	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 12:20	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 12:20	75-25-2	
Bromomethane	**1.8J**	ug/L	5.0	0.16	1		01/13/16 12:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 12:20	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 12:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 12:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 12:20	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 12:20	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 12:20	67-66-3	
Chloromethane	**1.2**	ug/L	1.0	0.080	1		01/13/16 12:20	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 12:20	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 12:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 12:20	107-06-2	
1,1-Dichloroethene	**0.26J**	ug/L	1.0	0.20	1		01/13/16 12:20	75-35-4	
cis-1,2-Dichloroethene	**3.6**	ug/L	1.0	0.080	1		01/13/16 12:20	156-59-2	
trans-1,2-Dichloroethene	**0.39J**	ug/L	1.0	0.20	1		01/13/16 12:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 12:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 12:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 12:20	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 12:20	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 12:20	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 12:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 12:20	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 12:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 12:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 12:20	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 12:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 12:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 12:20	79-00-5	
Trichloroethene	**169**	ug/L	1.0	0.17	1		01/13/16 12:20	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 12:20	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 12:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/13/16 12:20	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 12:20	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/13/16 12:20	2037-26-5	
Preservation pH	**7.0**		0.10	0.10	1		01/13/16 12:20		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: TB-01-201601 **Lab ID: 60210967011** Collected: 01/11/16 08:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 09:26	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 09:26	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 09:26	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 09:26	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 09:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 09:26	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 09:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 09:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 09:26	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 09:26	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 09:26	67-66-3	
Chloromethane	**0.28J**	ug/L	1.0	0.080	1		01/13/16 09:26	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 09:26	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 09:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 09:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 09:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 09:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 09:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 09:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 09:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 09:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 09:26	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 09:26	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 09:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 09:26	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 09:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 09:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 09:26	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 09:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 09:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 09:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 09:26	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 09:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 09:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/13/16 09:26	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/13/16 09:26	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/13/16 09:26	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 09:26		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: TB-02-201601 **Lab ID: 60210967012** Collected: 01/11/16 08:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 09:40	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 09:40	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 09:40	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 09:40	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 09:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 09:40	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 09:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 09:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 09:40	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 09:40	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 09:40	67-66-3	
Chloromethane	**0.15J**	ug/L	1.0	0.080	1		01/13/16 09:40	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 09:40	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 09:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 09:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 09:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 09:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 09:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 09:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 09:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 09:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 09:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 09:40	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 09:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 09:40	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 09:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 09:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 09:40	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 09:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 09:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 09:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 09:40	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 09:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 09:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/13/16 09:40	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 09:40	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/13/16 09:40	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 09:40		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-34R-201601 **Lab ID: 60210967013** Collected: 01/11/16 10:45 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 11:22	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**8640**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 16:32	7439-89-6	
Manganese	**6130**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:32	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**21.9**	mg/L	20.0	2.0	1		01/20/16 12:27		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 12:27		
Alkalinity, Total as CaCO3	**21.9**	mg/L	20.0	2.0	1		01/20/16 12:27		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**6.2**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.5**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**174**	mg/L	20.0	10.0	20		01/13/16 14:53	16887-00-6	
Sulfate	**196**	mg/L	20.0	4.7	20		01/13/16 14:53	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 08:41	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.071J**	mg/L	0.10	0.014	1		01/12/16 14:56		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 14:56		
Nitrogen, NO2 plus NO3	**0.071J**	mg/L	0.10	0.014	1		01/12/16 14:56		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**149**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/19/16 13:33	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.19**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 15:53		M1

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-35R-201601 **Lab ID: 60210967014** Collected: 01/11/16 12:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 11:33	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**24.7J**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 16:38	7439-89-6	
Manganese	**72.0**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:38	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**175**	mg/L	20.0	2.0	1		01/20/16 12:32		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 12:32		
Alkalinity, Total as CaCO3	**175**	mg/L	20.0	2.0	1		01/20/16 12:32		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**243**	mg/L	20.0	10.0	20		01/13/16 15:08	16887-00-6	
Sulfate	**5700**	mg/L	500	118	500		01/13/16 15:22	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.67**	mg/L	0.10	0.046	1		01/19/16 08:43	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.9**	mg/L	0.10	0.014	1		01/12/16 14:56		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 14:56		
Nitrogen, NO2 plus NO3	**2.9**	mg/L	0.10	0.014	1		01/12/16 14:56		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**445**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.59J**	mg/L	1.0	0.50	1		01/19/16 13:47	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**1.7**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 15:55		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-36R-201601 **Lab ID: 60210967015** Collected: 01/11/16 10:20 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 12:18	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**16300**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 16:41	7439-89-6	
Manganese	**4210**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:41	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**36.4**	mg/L	20.0	2.0	1		01/20/16 12:42		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 12:42		
Alkalinity, Total as CaCO3	**36.4**	mg/L	20.0	2.0	1		01/20/16 12:42		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**16.2**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.2**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**205**	mg/L	20.0	10.0	20		01/13/16 15:37	16887-00-6	
Sulfate	**2020**	mg/L	200	47.3	200		01/13/16 15:51	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.21**	mg/L	0.10	0.046	1		01/19/16 08:44	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.4**	mg/L	0.10	0.014	1		01/12/16 14:57		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 14:57		
Nitrogen, NO2 plus NO3	**1.4**	mg/L	0.10	0.014	1		01/12/16 14:57		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**481**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**1.1**	mg/L	1.0	0.50	1		01/19/16 14:00	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.091**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 15:55		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-65-201601 **Lab ID: 60210967016** Collected: 01/11/16 12:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 12:29	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**428**	ug/L	50.0	9.0	1	01/13/16 10:05	01/19/16 13:05	7439-89-6	
Manganese	**37.1**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:43	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	40.0	4.0	2		01/20/16 14:43		
Alkalinity, Carbonate (CaCO3)	**876**	mg/L	40.0	4.0	2		01/20/16 14:43		
Alkalinity, Total as CaCO3	**1240**	mg/L	40.0	4.0	2		01/20/16 14:43		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.43**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**12.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**220**	mg/L	20.0	10.0	20		01/13/16 16:49	16887-00-6	
Sulfate	**2770**	mg/L	200	47.3	200		01/13/16 16:05	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**2.2**	mg/L	0.20	0.093	2		01/19/16 10:42	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.4**	mg/L	0.10	0.014	1		01/12/16 14:58		
Nitrogen, Nitrite	**0.12**	mg/L	0.10	0.023	1		01/12/16 14:58		
Nitrogen, NO2 plus NO3	**2.5**	mg/L	0.10	0.014	1		01/12/16 14:58		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**385**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**5.0**	mg/L	1.0	0.50	1		01/19/16 14:13	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**2.4**	mg/L	0.15	0.050	5	01/19/16 08:21	01/19/16 16:07		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-81-201601 **Lab ID: 60210967017** Collected: 01/11/16 17:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 12:40	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**148**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 16:45	7439-89-6	
Manganese	**52.9**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:45	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**134**	mg/L	20.0	2.0	1		01/20/16 12:57		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 12:57		
Alkalinity, Total as CaCO3	**134**	mg/L	20.0	2.0	1		01/20/16 12:57		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.5**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**237**	mg/L	50.0	25.0	50		01/13/16 17:03	16887-00-6	
Sulfate	**832**	mg/L	50.0	11.8	50		01/13/16 17:03	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.13**	mg/L	0.10	0.046	1		01/19/16 08:48	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.4**	mg/L	0.10	0.014	1		01/12/16 14:59		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 14:59		
Nitrogen, NO2 plus NO3	**1.4**	mg/L	0.10	0.014	1		01/12/16 14:59		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**203**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**1.7**	mg/L	1.0	0.50	1		01/19/16 14:52	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**3.0**	mg/L	0.060	0.020	2	01/19/16 08:21	01/19/16 15:58		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-82-201601 **Lab ID: 60210967018** Collected: 01/11/16 15:30 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 12:51	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**118**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 16:48	7439-89-6	
Manganese	**539**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:48	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**40.8**	mg/L	20.0	2.0	1		01/20/16 13:01		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:01		
Alkalinity, Total as CaCO3	**40.8**	mg/L	20.0	2.0	1		01/20/16 13:01		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.6**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**144**	mg/L	20.0	10.0	20		01/13/16 17:17	16887-00-6	
Sulfate	**1260**	mg/L	200	47.3	200		01/13/16 17:32	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.44**	mg/L	0.10	0.046	1		01/19/16 08:49	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.94**	mg/L	0.10	0.014	1		01/12/16 15:00		
Nitrogen, Nitrite	**0.094J**	mg/L	0.10	0.023	1		01/12/16 15:00		
Nitrogen, NO2 plus NO3	**1.0**	mg/L	0.10	0.014	1		01/12/16 15:00		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**231**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**5.0**	mg/L	1.0	0.50	1		01/19/16 15:05	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.85**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:02		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: IW-77-201601 **Lab ID: 60210967019** Collected: 01/11/16 15:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 15:28	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**17.9J**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 16:54	7439-89-6	
Manganese	**3.5J**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:54	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**346**	mg/L	20.0	2.0	1		01/20/16 13:08		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:08		
Alkalinity, Total as CaCO3	**346**	mg/L	20.0	2.0	1		01/20/16 13:08		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**7.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**184**	mg/L	20.0	10.0	20		01/13/16 17:46	16887-00-6	
Sulfate	**1880**	mg/L	100	23.7	100		01/13/16 18:01	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.42**	mg/L	0.10	0.046	1		01/19/16 08:51	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.1**	mg/L	0.10	0.014	1		01/12/16 15:01		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:01		
Nitrogen, NO2 plus NO3	**2.1**	mg/L	0.10	0.014	1		01/12/16 15:01		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**354**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**3.2**	mg/L	1.0	0.50	1		01/19/16 15:18	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.89**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:03		

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: GCSV/4868 Analysis Method: EPA 8015 - Alcohol
QC Batch Method: EPA 8015 - Alcohol Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018

METHOD BLANK: 194580 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/14/16 10:24	

LABORATORY CONTROL SAMPLE: 194581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	87400	87	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194582 194583

Parameter	Units	60210853011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	86700	70800	87	71	40-140	20	40	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: GCSV/4870
QC Batch Method: EPA 8015 - Alcohol
Analysis Method: EPA 8015 - Alcohol
Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60210967019

METHOD BLANK: 194891 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/14/16 10:36	

LABORATORY CONTROL SAMPLE: 194892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	88400	88	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194893 194894

Parameter	Units	60210967019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	102000	94400	102	94	40-140	8	40	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: MPRP/34568 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

METHOD BLANK: 1696258 Matrix: Water
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	9.0	01/18/16 16:30	
Manganese	ug/L	ND	5.0	2.4	01/18/16 16:30	

LABORATORY CONTROL SAMPLE: 1696259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9680	97	80-120	
Manganese	ug/L	1000	966	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696260 1696261

Parameter	Units	60210967013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	8640	10000	10000	18300	18500	97	98	75-125	1	20	
Manganese	ug/L	6130	1000	1000	7110	7190	98	106	75-125	1	20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: MSV/73722 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210967001, 60210967011, 60210967012

METHOD BLANK: 1696229 Matrix: Water
Associated Lab Samples: 60210967001, 60210967011, 60210967012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 09:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 09:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 09:11	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 09:11	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 09:11	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 09:11	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 09:11	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 09:11	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 09:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 09:11	
Acetone	ug/L	ND	10.0	1.9	01/13/16 09:11	
Benzene	ug/L	ND	1.0	0.060	01/13/16 09:11	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 09:11	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 09:11	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 09:11	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 09:11	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 09:11	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 09:11	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 09:11	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 09:11	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 09:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 09:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 09:11	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 09:11	
Ethylbenzene	ug/L	ND	1.0	0.18	01/13/16 09:11	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 09:11	
Styrene	ug/L	ND	1.0	0.12	01/13/16 09:11	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 09:11	
Toluene	ug/L	ND	1.0	0.17	01/13/16 09:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 09:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 09:11	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 09:11	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 09:11	
Xylene (Total)	ug/L	ND	3.0	0.42	01/13/16 09:11	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 09:11	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 09:11	
Toluene-d8 (S)	%	105	80-120		01/13/16 09:11	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

LABORATORY CONTROL SAMPLE: 1696230

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.4	97	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	96	73-121	
1,1,2-Trichloroethane	ug/L	20	17.6	88	80-120	
1,1-Dichloroethane	ug/L	20	21.0	105	80-120	
1,1-Dichloroethene	ug/L	20	19.1	95	80-120	
1,2-Dichloroethane	ug/L	20	19.3	97	81-120	
1,2-Dichloropropane	ug/L	20	19.3	97	80-120	
2-Butanone (MEK)	ug/L	100	109	109	67-122	
2-Hexanone	ug/L	100	109	109	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	76-120	
Acetone	ug/L	100	118	118	72-120	
Benzene	ug/L	20	20.3	102	80-120	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	17.6	88	73-138	
Bromomethane	ug/L	20	22.2	111	38-137	
Carbon disulfide	ug/L	20	21.1	105	71-129	
Carbon tetrachloride	ug/L	20	19.0	95	67-146	
Chlorobenzene	ug/L	20	19.7	99	80-120	
Chloroethane	ug/L	20	18.7	94	76-120	
Chloroform	ug/L	20	18.4	92	80-120	
Chloromethane	ug/L	20	20.4	102	34-165	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	80-120	
Dibromochloromethane	ug/L	20	19.1	96	80-126	
Ethylbenzene	ug/L	20	20.7	104	80-120	
Methylene chloride	ug/L	20	20.0	100	80-120	
Styrene	ug/L	20	22.0	110	80-123	
Tetrachloroethene	ug/L	20	18.1	91	80-123	
Toluene	ug/L	20	19.8	99	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.1	100	80-129	
Trichloroethene	ug/L	20	18.5	93	80-120	
Vinyl chloride	ug/L	20	22.0	110	62-125	
Xylene (Total)	ug/L	60	64.7	108	80-120	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: MSV/73723 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 7 day
Associated Lab Samples: 60210967002, 60210967003, 60210967004, 60210967005, 60210967006, 60210967007, 60210967008, 60210967009, 60210967010

METHOD BLANK: 1696231 Matrix: Water
Associated Lab Samples: 60210967002, 60210967003, 60210967004, 60210967005, 60210967006, 60210967007, 60210967008, 60210967009, 60210967010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 09:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 09:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 09:11	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 09:11	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 09:11	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 09:11	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 09:11	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 09:11	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 09:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 09:11	
Acetone	ug/L	ND	10.0	1.9	01/13/16 09:11	
Benzene	ug/L	ND	1.0	0.060	01/13/16 09:11	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 09:11	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 09:11	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 09:11	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 09:11	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 09:11	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 09:11	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 09:11	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 09:11	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 09:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 09:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 09:11	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 09:11	
Ethylbenzene	ug/L	ND	1.0	0.18	01/13/16 09:11	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 09:11	
Styrene	ug/L	ND	1.0	0.12	01/13/16 09:11	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 09:11	
Toluene	ug/L	ND	1.0	0.17	01/13/16 09:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 09:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 09:11	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 09:11	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 09:11	
Xylene (Total)	ug/L	ND	3.0	0.42	01/13/16 09:11	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 09:11	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 09:11	
Toluene-d8 (S)	%	105	80-120		01/13/16 09:11	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

LABORATORY CONTROL SAMPLE: 1696232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.4	97	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	96	73-121	
1,1,2-Trichloroethane	ug/L	20	17.6	88	80-120	
1,1-Dichloroethane	ug/L	20	21.0	105	80-120	
1,1-Dichloroethene	ug/L	20	19.1	95	80-120	
1,2-Dichloroethane	ug/L	20	19.3	97	81-120	
1,2-Dichloropropane	ug/L	20	19.3	97	80-120	
2-Butanone (MEK)	ug/L	100	109	109	67-122	
2-Hexanone	ug/L	100	109	109	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	76-120	
Acetone	ug/L	100	118	118	72-120	
Benzene	ug/L	20	20.3	102	80-120	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	17.6	88	73-138	
Bromomethane	ug/L	20	22.2	111	38-137	
Carbon disulfide	ug/L	20	21.1	105	71-129	
Carbon tetrachloride	ug/L	20	19.0	95	67-146	
Chlorobenzene	ug/L	20	19.7	99	80-120	
Chloroethane	ug/L	20	18.7	94	76-120	
Chloroform	ug/L	20	18.4	92	80-120	
Chloromethane	ug/L	20	20.4	102	34-165	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	80-120	
Dibromochloromethane	ug/L	20	19.1	96	80-126	
Ethylbenzene	ug/L	20	20.7	104	80-120	
Methylene chloride	ug/L	20	20.0	100	80-120	
Styrene	ug/L	20	22.0	110	80-123	
Tetrachloroethene	ug/L	20	18.1	91	80-123	
Toluene	ug/L	20	19.8	99	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.1	100	80-129	
Trichloroethene	ug/L	20	18.5	93	80-120	
Vinyl chloride	ug/L	20	22.0	110	62-125	
Xylene (Total)	ug/L	60	64.7	108	80-120	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: WET/59653 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

METHOD BLANK: 1699425 Matrix: Water
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/20/16 12:24	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/20/16 12:24	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/20/16 12:24	

LABORATORY CONTROL SAMPLE: 1699426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	490	98	90-110	

SAMPLE DUPLICATE: 1699427

Parameter	Units	60210967014 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	175	179	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	175	179	2	10	

SAMPLE DUPLICATE: 1699428

Parameter	Units	60210969002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	51.2	51.2	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	51.2	51.2	0	10	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: WET/59530 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

METHOD BLANK: 1696147 Matrix: Water
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/13/16 13:39	

LABORATORY CONTROL SAMPLE: 1696148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.52	105	80-120	

MATRIX SPIKE SAMPLE: 1696149

Parameter	Units	60210924011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.40	81	75-125	

SAMPLE DUPLICATE: 1696150

Parameter	Units	60210924012 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1696151

Parameter	Units	60210967019 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: WETA/37703 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

METHOD BLANK: 1696186 Matrix: Water
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/13/16 09:08	
Sulfate	mg/L	ND	1.0	0.25	01/13/16 09:08	

LABORATORY CONTROL SAMPLE: 1696187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	95	90-110	
Sulfate	mg/L	5	4.7	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696188 1696189

Parameter	Units	60210999001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	5	5	10.1	10	93	91	80-120	1	15	
Sulfate	mg/L	32.3	25	25	54.2	54.6	88	89	80-120	1	15	

MATRIX SPIKE SAMPLE: 1696190

Parameter	Units	60211007001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	515	250	748	93	80-120	
Sulfate	mg/L	2840	1000	3710	87	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: WETA/37767 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

METHOD BLANK: 1698752 Matrix: Water
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/19/16 08:36	

LABORATORY CONTROL SAMPLE: 1698753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1698754

Parameter	Units	60210944002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.76	2	2.9	107	90-110	

MATRIX SPIKE SAMPLE: 1698755

Parameter	Units	60210970005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	2	2.2	101	90-110	

SAMPLE DUPLICATE: 1698756

Parameter	Units	60210971002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	5.9	5.9	1	18	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: WETA/37685 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

METHOD BLANK: 1695930 Matrix: Water
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.014	01/12/16 14:44	
Nitrogen, Nitrite	mg/L	ND	0.10	0.023	01/12/16 14:44	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	0.014	01/12/16 14:44	

LABORATORY CONTROL SAMPLE: 1695931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	101	85-115	
Nitrogen, Nitrite	mg/L	.4	0.38	96	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 1695932

Parameter	Units	60210951002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.21	1.6	1.9	104	85-115	
Nitrogen, Nitrite	mg/L	ND	.4	0.42	104	90-110	
Nitrogen, NO2 plus NO3	mg/L	0.21	2	2.3	104	90-110	

MATRIX SPIKE SAMPLE: 1695933

Parameter	Units	60210957002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	26.3	16	39.5	83	85-115	M1
Nitrogen, Nitrite	mg/L	ND	4	4.0	101	90-110	
Nitrogen, NO2 plus NO3	mg/L	26.3	20	43.5	86	90-110	M1

SAMPLE DUPLICATE: 1695934

Parameter	Units	60210963001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.052J	0.041J		20	
Nitrogen, Nitrite	mg/L	<0.023	ND		20	
Nitrogen, NO2 plus NO3	mg/L	0.052J	0.041J		20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: WETA/37721 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

METHOD BLANK: 1696971 Matrix: Water
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/19/16 09:40	

LABORATORY CONTROL SAMPLE: 1696972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.6	112	80-120	

MATRIX SPIKE SAMPLE: 1696973

Parameter	Units	60210855001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.9	5	5.9	80	80-120	

SAMPLE DUPLICATE: 1696974

Parameter	Units	60210856002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	7.5	7.6	2	25	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: WETA/10263 Analysis Method: SM 4500-P E
QC Batch Method: SM4500-P B Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

METHOD BLANK: 195829 Matrix: Water
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.014J	0.030	0.010	01/19/16 15:52	

LABORATORY CONTROL SAMPLE: 195830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.4	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195831 195832

Parameter	Units	60210967013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.19	1.5	1.5	1.3	1.2	70	69	80-120	2	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195833 195834

Parameter	Units	60210974003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.39	1.5	1.5	1.4	1.6	67	78	80-120	11	20	M1

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QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60210967

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-D	Pace Analytical Services - Dallas
PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73722
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/73723
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: WET/59747
[1] Ferrous Fe performed in the field
Batch: WET/59755
[1] Field pH

ANALYTE QUALIFIERS

H6	Analysis initiated outside of the 15 minute EPA required holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210967013	**MW-34R-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210967014	**MW-35R-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210967015	**MW-36R-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210967016	**MW-65-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210967017	**MW-81-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210967018	**MW-82-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210967019	**IW-77-201601**	EPA 8015 - Alcohol	GCSV/4870		
60210967013	**MW-34R-201601**	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210967014	**MW-35R-201601**	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210967015	**MW-36R-201601**	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210967016	**MW-65-201601**	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210967017	**MW-81-201601**	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210967018	**MW-82-201601**	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210967019	**IW-77-201601**	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210967001	**MW-34R-201601**	EPA 5030B/8260	MSV/73722		
60210967011	**TB-01-201601**	EPA 5030B/8260	MSV/73722		
60210967012	**TB-02-201601**	EPA 5030B/8260	MSV/73722		
60210967002	**MW-35R-201601**	EPA 5030B/8260	MSV/73723		
60210967003	**MW-36R-201601**	EPA 5030B/8260	MSV/73723		
60210967004	**MW-65-201601**	EPA 5030B/8260	MSV/73723		
60210967005	**MW-81-201601**	EPA 5030B/8260	MSV/73723		
60210967006	**MW-82-201601**	EPA 5030B/8260	MSV/73723		
60210967007	**IW-77-201601**	EPA 5030B/8260	MSV/73723		
60210967008	**IW-78-201601**	EPA 5030B/8260	MSV/73723		
60210967009	**IW-79-201601**	EPA 5030B/8260	MSV/73723		
60210967010	**IW-115-201601**	EPA 5030B/8260	MSV/73723		
60210967013	**MW-34R-201601**	SM 2320B	WET/59653		
60210967014	**MW-35R-201601**	SM 2320B	WET/59653		
60210967015	**MW-36R-201601**	SM 2320B	WET/59653		
60210967016	**MW-65-201601**	SM 2320B	WET/59653		
60210967017	**MW-81-201601**	SM 2320B	WET/59653		
60210967018	**MW-82-201601**	SM 2320B	WET/59653		
60210967019	**IW-77-201601**	SM 2320B	WET/59653		
60210967013	**MW-34R-201601**	SM 3500-Fe B#4	WET/59747		
60210967014	**MW-35R-201601**	SM 3500-Fe B#4	WET/59747		
60210967015	**MW-36R-201601**	SM 3500-Fe B#4	WET/59747		
60210967016	**MW-65-201601**	SM 3500-Fe B#4	WET/59747		
60210967017	**MW-81-201601**	SM 3500-Fe B#4	WET/59747		
60210967018	**MW-82-201601**	SM 3500-Fe B#4	WET/59747		
60210967019	**IW-77-201601**	SM 3500-Fe B#4	WET/59747		
60210967013	**MW-34R-201601**	SM 4500-H+B	WET/59755		
60210967014	**MW-35R-201601**	SM 4500-H+B	WET/59755		
60210967015	**MW-36R-201601**	SM 4500-H+B	WET/59755		
60210967016	**MW-65-201601**	SM 4500-H+B	WET/59755		
60210967017	**MW-81-201601**	SM 4500-H+B	WET/59755		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210967018	**MW-82-201601**	SM 4500-H+B	WET/59755		
60210967019	**IW-77-201601**	SM 4500-H+B	WET/59755		
60210967013	**MW-34R-201601**	SM 4500-S-2 D	WET/59530		
60210967014	**MW-35R-201601**	SM 4500-S-2 D	WET/59530		
60210967015	**MW-36R-201601**	SM 4500-S-2 D	WET/59530		
60210967016	**MW-65-201601**	SM 4500-S-2 D	WET/59530		
60210967017	**MW-81-201601**	SM 4500-S-2 D	WET/59530		
60210967018	**MW-82-201601**	SM 4500-S-2 D	WET/59530		
60210967019	**IW-77-201601**	SM 4500-S-2 D	WET/59530		
60210967013	**MW-34R-201601**	EPA 300.0	WETA/37703		
60210967014	**MW-35R-201601**	EPA 300.0	WETA/37703		
60210967015	**MW-36R-201601**	EPA 300.0	WETA/37703		
60210967016	**MW-65-201601**	EPA 300.0	WETA/37703		
60210967017	**MW-81-201601**	EPA 300.0	WETA/37703		
60210967018	**MW-82-201601**	EPA 300.0	WETA/37703		
60210967019	**IW-77-201601**	EPA 300.0	WETA/37703		
60210967013	**MW-34R-201601**	EPA 350.1	WETA/37767		
60210967014	**MW-35R-201601**	EPA 350.1	WETA/37767		
60210967015	**MW-36R-201601**	EPA 350.1	WETA/37767		
60210967016	**MW-65-201601**	EPA 350.1	WETA/37767		
60210967017	**MW-81-201601**	EPA 350.1	WETA/37767		
60210967018	**MW-82-201601**	EPA 350.1	WETA/37767		
60210967019	**IW-77-201601**	EPA 350.1	WETA/37767		
60210967013	**MW-34R-201601**	EPA 353.2	WETA/37685		
60210967014	**MW-35R-201601**	EPA 353.2	WETA/37685		
60210967015	**MW-36R-201601**	EPA 353.2	WETA/37685		
60210967016	**MW-65-201601**	EPA 353.2	WETA/37685		
60210967017	**MW-81-201601**	EPA 353.2	WETA/37685		
60210967018	**MW-82-201601**	EPA 353.2	WETA/37685		
60210967019	**IW-77-201601**	EPA 353.2	WETA/37685		
60210967013	**MW-34R-201601**	SM 4500-CO2 D	WETA/37870		
60210967014	**MW-35R-201601**	SM 4500-CO2 D	WETA/37870		
60210967015	**MW-36R-201601**	SM 4500-CO2 D	WETA/37870		
60210967016	**MW-65-201601**	SM 4500-CO2 D	WETA/37870		
60210967017	**MW-81-201601**	SM 4500-CO2 D	WETA/37870		
60210967018	**MW-82-201601**	SM 4500-CO2 D	WETA/37870		
60210967019	**IW-77-201601**	SM 4500-CO2 D	WETA/37870		
60210967013	**MW-34R-201601**	SM 5310C	WETA/37721		
60210967014	**MW-35R-201601**	SM 5310C	WETA/37721		
60210967015	**MW-36R-201601**	SM 5310C	WETA/37721		
60210967016	**MW-65-201601**	SM 5310C	WETA/37721		
60210967017	**MW-81-201601**	SM 5310C	WETA/37721		
60210967018	**MW-82-201601**	SM 5310C	WETA/37721		
60210967019	**IW-77-201601**	SM 5310C	WETA/37721		
60210967013	**MW-34R-201601**	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210967014	**MW-35R-201601**	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210967015	**MW-36R-201601**	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210967016	**MW-65-201601**	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210967017	**MW-81-201601**	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210967018	**MW-82-201601**	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210967019	**IW-77-201601**	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267

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Sample Condition Upon Receipt

WO# : 60210967

60210967

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☑ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262

Type of Ice: Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 2.3 / 2.8

Date and initials of person examining contents: pvl 12/16

Temperature should be above freezing to 6°C

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 holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. Field readings pH
Rush Turn Around Time requested: pvl 12/16	☑Yes ☐No ☐N/A	7. Rush VOC only
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9. Samples receive with TB.
Containers intact:	☑Yes ☐No ☐N/A	10. 1 = TB1
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11. 11 = TB2
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): Cover		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☑N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

Per Wendy, sample IW-82-201601 should be MW-82-201601. CBC 01/12/2016

Project Manager Review: CBC Date: 01/12/16

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical
www.pacelabs.com

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

Page: 1 of 1

Section A Required Client Information

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	1 DAY (VOCs only)

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

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	Y/N	Analysis Test: 8260 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60210967
1	MW-34R-201601 3D69U 3D69H	WT	G	1/11/16	1045	1B93U	1A635		11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	N	1B95 1B93N 1B93 2 11-6 001/013
2	MW-35R-201601 ↓ 30THR	WT	G	1/11/16	1215	↓	↓		11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	N	002/014
3	MW-36R-201601 ↓ ↓	WT	G	1/11/16	1020				11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	N	003/015
4	MW-65-201601	WT	G	1/11/16	1235				11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	N	004/016
5	MW-81-201601	WT	G	1/11/16	1700				11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	N	005/017
6	IW-82-201601	WT	G	1/11/16	1530				11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	N	006/018
7	IW-77-201601	WT	G	1/11/16	1515	↓	↓		11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	N	007/019
8	IW-78-201601	WT	G	1/11/16	1030				3	X	~~X~~	~~X~~		X			X		X									N	008
9	IW-79-201601	WT	G	1/11/16	1225				3								X		X									N	009
10	IW-115-201601	WT	G	1/11/16	1415				3								X		X									N	010
11	TB-01-201601 2D69H	WT	G	1/11/16					5 3				X						X									N	011
12	TB-02-201601 ↓	WT	G	1/11/16					3 2				X						X									N	012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Wendy Stonestreet/RE	1/11/16			1/12/16	0750	2-3	X	Y	Y
							2-8	X	X	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM/DD/YY): 1/11/2016

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.

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 60210967 **Workorder Name:** FORT SMITH **Owner Received Date:** 1/12/2016 **Results Requested By:** 1/13/2016

Report To	Subcontract To
Colleen Clyne Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Dallas 400 West Bethany Drive Suite 190 Allen, TX 75013 Phone (972)727-1123

						Preserved Containers						Requested Analysis												
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	BP3S	DG9U					8015 Chloroethanol	Total Phosphate											LAB USE ONLY
1	MW-34R-201601	PS	1/11/2016 10:45	60210967013	Water	1	3					X	X											001
2	MW-35R-201601	PS	1/11/2016 12:15	60210967014	Water	1	3					X	X											002
3	MW-36R-201601	PS	1/11/2016 10:20	60210967015	Water	1	3					X	X											003
4	MW-65-201601	PS	1/11/2016 12:35	60210967016	Water	1	3					X	X											004
5	MW-81-201601	PS	1/11/2016 17:00	60210967017	Water	1	3					X	X											005
6	IW-82-201601	PS	1/11/2016 15:30	60210967018	Water	1	3					X	X											006
7	IW-77-201601	PS	1/11/2016 15:15	60210967019	Water	1	3					X	X											007

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	[signature]	1/12/16 1700	[signature]	1/13/16 09:05	
2					
3					

Cooler Temperature on Receipt	°C	Custody Seal	Y or	Received on Ice	Y or	Samples Intact	Y or	N
IR-02								

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laborator

WO# : 7537282

7537282

Pace Analytical

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐San Angelo

Client Name: Pace - Kansas Project Work order: 7537282

Courier: FedEX ☑ UPS ☐ USPS ☐ Client ☐ Courier ☐ LSO ☐ PACE ☐ Other:

Tracking#: 6505 8163 6390

Custody Seal on Cooler/Box: Yes ☑ No ☐ Seals Intact: Yes ☑ No ☐ NA ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☑ Other ☐

Thermometer Used: IR-01 ~~IR-03~~ Type of Ice: Wet ☑ Blue ☐ None ☐ Sample Received on ice, cooling process has begun ☑

Cooler Temp: 0.1 (Temp should be above freezing to 6°C)

Chain of Custody Present	Yes ☑ No ☐ NA ☐	1
Chain of Custody filled out	Yes ☑ No ☐ NA ☐	2
Chain of Custody relinquished	Yes ☑ No ☐ NA ☐	3
Sampler name & signature on COC	Yes ☐ No ☑ NA ☐	4
Sample received within HT	Yes ☑ No ☐ NA ☐	5
Short HT analyses (<72 hrs)	Yes ☐ No ☑ NA ☐	6
Rush TAT requested	Yes ☐ No ☑ NA ☐	7
Sufficient Volume received	Yes ☑ No ☐ NA ☐	8
Correct Container used Pace Container used	Yes ☑ No ☐ NA ☐ Yes ☑ No ☐ NA ☐	9
Container Intact	Yes ☑ No ☐ NA ☐	10
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑	11
Filtered volume received for Dissolved tests	Yes ☐ No ☐ NA ☑	12
Sample labels match COC Include date/time/ID/analyses Matrix: WATER	Yes ☑ No ☐ NA ☐	13
All containers needing preservation have been checked	Yes ☑ No ☐ NA ☐	14a. Lot# of pH strip: 641200 3 pH checked Yes ☑ No ☐ pH<2 ☑ pH>9 ☐ pH>12 ☐ Lot# of Iodine strip: Lot# of Lead Acetate strip:
Do containers require preservation at the lab	Yes ☐ No ☑ NA ☐	14b. Preservation: / Lot#:
All containers needing preservation are found to be in Compliance with EPA recommendation Exception: VOA, coliform, O&G	Yes ☑ No ☐ Yes ☑ No ☐	14c.
Are soil samples (volatiles) received in Bulk ☐ Terracore ☐ EnCore ☐ NA ☑		15.
Trip Blank present Trip Blank Custody Seals Intact Pace Trip Blank Lot# (if purchased):	Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑	16.
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☑	17.
Project sampled in USDA Regulated Area:	Yes ☐ No ☐ NA ☑	18. List State

Client Notification/Resolution/Comments:

Person Contacted: Date:

Comments/Resolution:

Person Examining Contents: Date: 1/13/16

Pace Analytical Services - Dallas

Sample Container Count-

COC PAGE 1 of 1

COC ID# _____

Pace Project # 7537282

Sample Line Item	AG1S	AG1U	AG3S	BG1S	BP1U	BP2N	BP2S	BP2U	BP20	SP5T	VG9H	DG9M	VG9U	VG9W	WGFU	WGKU	BP3C	GN	WG2U	BP3S				
1							1						3											
2							1						3											
3							1						3											
4							1						3											
5							1						3											
6							1						3											
7							1						3											
8																								
9																								
10																								
11																								
12																								

Container Codes

AF	Air Filter	BP1A	1 liter NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic	R	terra core kit
AG1H	1L HCL Amber Glass	BP1N	1 liter HNO3 plastic	BP3U	250mL unpreserved plastic	SP5T	120mL Coliform Na Thiosulfate
AG1S	1L H2SO4 Amber Glass	BP1S	1 liter H2SO4 plastic	BP3Z	250mL NaOH, Zn Ac plastic	SP5U	120mL Coliform unpreserved
AG1T	1L Sodium Thiosulfate Amber	BP1U	1 liter unpreserved plastic	C	Air Cassettes	VG9H	40mL HCL clear vial
AG1U	1L Unpreserved Amber Glass	BP1Z	1 liter NaOH, Zn, Ac	DG9B	40mL Na Bisulfate amber vial	VG9T	40mL Na Thio. clear vial
AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plasti	DG9H	40mL HCL amber voa vial	VG9U	40mL unpreserved clear vial
AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	DG9M	40mL MeOH clear vial	VG9W	40mL Unpreserved Tared
AG2U	500mL unpreserved amber glas	BP2O	500mL NaOH plastic	DG9P	40mL TSP amber vial	VSG	Headspace septa vial & HCL
AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	DG9S	40mL H2SO4 amber vial	WGFU	4oz clear soil jar
AG3U	250mL unpreserved amber glas	BP2U	500mL unpreserved plastic	DG9T	40mL Na Thio amber vial	WGFX	4oz wide jar w/hexane wipe
BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac	DG9U	40mL unpreserved amber vial	WGKU	8oz wide jar upreserved
BG1S	1 liter H2SO4 clear glass	BP3A	250mL NaOh, Asc Acid plasti	GN	General unpreserved	WG2U	2oz clear jar
BG1T	1 liter Na Thiosulfate clear gla	BP3C	250mL NaOH plastic	I	Wipe/Swab	ZPLC	Ziploc Bag
BG1U	1 liter unpreserved glass	BP3N	250mL HNO3 plastic	JGFU	4oz unpreserved amber wide	Other	Other

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 26, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60210969

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2016. 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.

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

Sincerely,



Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60210969

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

Dallas Certification IDs:

400 West Bethany Dr Suite 190, Allen, TX 75013
EPA# TX00074
Texas Certification #: T104704232-15-12
Texas Certification #: T104704232-14-8
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 2014-055
Louisiana Certification #: 02007

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60210969

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60210969001	**MW-99-201601**	Water	01/11/16 09:35	01/12/16 07:50
60210969002	**MW-184-201601**	Water	01/11/16 11:05	01/12/16 07:50
60210969003	**MW-98-201601**	Water	01/11/16 13:33	01/12/16 07:50

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210969

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60210969001	**MW-99-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210969002	**MW-184-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210969003	**MW-98-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210969

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **EPA 8015 - Alcohol**
Description: Alcohol by Direct Inject GCFID
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for EPA 8015 - Alcohol. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73727

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **SM 3500-Fe B#4**
Description: Iron, Ferric (Calculation)
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 3500-Fe B#4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Ferrous Fe performed in the field
- QC Batch: WET / 59730

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA recommended holding time.
- MW-184-201601 (Lab ID: 60210969002)
- MW-98-201601 (Lab ID: 60210969003)
- MW-99-201601 (Lab ID: 60210969001)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Field pH
- QC Batch: WET / 59733

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **EPA 350.1**
Description: 350.1 Ammonia
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37685

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210951002,60210957002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1695933)
  - Nitrogen, NO2 plus NO3
  - Nitrogen, Nitrate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **SM 4500-CO2 D**
Description: Total Carbon Dioxide Calc
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 4500-CO2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **SM 5310C**
Description: 5310C TOC
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **SM 4500-P E**
Description: SM4500P-E, Total Phosphorus
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 4500-P E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with SM4500-P B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/10248

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210924012,7537074001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 195390)
  - Phosphate as P04

R1: RPD value was outside control limits.

- MSD (Lab ID: 195389)
  - Phosphate as P04
- MSD (Lab ID: 195391)
  - Phosphate as P04

QC Batch: WETA/10263

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210967013,60210974003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 195831)
  - Phosphate as P04
- MS (Lab ID: 195833)
  - Phosphate as P04
- MSD (Lab ID: 195832)

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **SM 4500-P E**
Description: SM4500P-E, Total Phosphorus
Client: Environ_AR
Date: January 26, 2016

QC Batch: WETA/10263

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210967013,60210974003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Phosphate as P04

- MSD (Lab ID: 195834)
  - Phosphate as P04

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210969

Sample: MW-99-201601 **Lab ID: 60210969001** Collected: 01/11/16 09:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 14:54	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**1070**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 16:56	7439-89-6	
Manganese	**25.8**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:56	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 12:49	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 12:49	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 12:49	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 12:49	75-25-2	
Bromomethane	**1.3J**	ug/L	5.0	0.16	1		01/13/16 12:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 12:49	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 12:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 12:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 12:49	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 12:49	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 12:49	67-66-3	
Chloromethane	**0.12J**	ug/L	1.0	0.080	1		01/13/16 12:49	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 12:49	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 12:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 12:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 12:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 12:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 12:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 12:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 12:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 12:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 12:49	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 12:49	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 12:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 12:49	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 12:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 12:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 12:49	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 12:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 12:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 12:49	79-00-5	
Trichloroethene	**0.21J**	ug/L	1.0	0.17	1		01/13/16 12:49	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 12:49	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 12:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/13/16 12:49	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/13/16 12:49	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/13/16 12:49	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 12:49		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210969

Sample: MW-99-201601 **Lab ID: 60210969001** Collected: 01/11/16 09:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**61.5**	mg/L	20.0	2.0	1		01/20/16 13:23		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:23		
Alkalinity, Total as CaCO3	**61.5**	mg/L	20.0	2.0	1		01/20/16 13:23		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**1.1**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.2**	Std. Units	0.10	0.10	1		01/11/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.5**	mg/L	1.0	0.50	1		01/13/16 21:51	16887-00-6	
Sulfate	**6.9**	mg/L	1.0	0.24	1		01/13/16 21:51	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 08:52	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.76**	mg/L	0.10	0.014	1		01/12/16 15:02		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:02		
Nitrogen, NO2 plus NO3	**0.76**	mg/L	0.10	0.014	1		01/12/16 15:02		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**130**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.63J**	mg/L	1.0	0.50	1		01/19/16 15:31	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.14**	mg/L	0.030	0.010	1	01/15/16 09:57	01/15/16 14:44		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210969

Sample: MW-184-201601 **Lab ID: 60210969002** Collected: 01/11/16 11:05 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 15:06	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**2050**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 16:59	7439-89-6	
Manganese	**227**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:59	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 13:04	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 13:04	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 13:04	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 13:04	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 13:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 13:04	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 13:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 13:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 13:04	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 13:04	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 13:04	67-66-3	
Chloromethane	**0.22J**	ug/L	1.0	0.080	1		01/13/16 13:04	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 13:04	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 13:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 13:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 13:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 13:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 13:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 13:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 13:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 13:04	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 13:04	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 13:04	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 13:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 13:04	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 13:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 13:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 13:04	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 13:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 13:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 13:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 13:04	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 13:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 13:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/13/16 13:04	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 13:04	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/13/16 13:04	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 13:04		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210969

Sample: MW-184-201601 **Lab ID: 60210969002** Collected: 01/11/16 11:05 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**51.2**	mg/L	20.0	2.0	1		01/20/16 13:27		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:27		
Alkalinity, Total as CaCO3	**51.2**	mg/L	20.0	2.0	1		01/20/16 13:27		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**2.0**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.9**	Std. Units	0.10	0.10	1		01/11/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:58	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.0**	mg/L	1.0	0.50	1		01/13/16 22:49	16887-00-6	
Sulfate	**2.5**	mg/L	1.0	0.24	1		01/13/16 22:49	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 08:53	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.72**	mg/L	0.10	0.014	1		01/12/16 15:03		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:03		
Nitrogen, NO2 plus NO3	**0.72**	mg/L	0.10	0.014	1		01/12/16 15:03		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**165**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.65J**	mg/L	1.0	0.50	1		01/19/16 15:44	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.11**	mg/L	0.030	0.010	1	01/15/16 09:57	01/15/16 14:44		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210969

Sample: MW-98-201601 **Lab ID: 60210969003** Collected: 01/11/16 13:33 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 15:17	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**234**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:01	7439-89-6	
Manganese	**371**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:01	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 13:19	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 13:19	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 13:19	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 13:19	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 13:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 13:19	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 13:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 13:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 13:19	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 13:19	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 13:19	67-66-3	
Chloromethane	**0.17J**	ug/L	1.0	0.080	1		01/13/16 13:19	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 13:19	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 13:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 13:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 13:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 13:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 13:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 13:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 13:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 13:19	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 13:19	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 13:19	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 13:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 13:19	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 13:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 13:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 13:19	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 13:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 13:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 13:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 13:19	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 13:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 13:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 13:19	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 13:19	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/13/16 13:19	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 13:19		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210969

Sample: MW-98-201601 **Lab ID: 60210969003** Collected: 01/11/16 13:33 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**116**	mg/L	20.0	2.0	1		01/20/16 13:35		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:35		
Alkalinity, Total as CaCO3	**116**	mg/L	20.0	2.0	1		01/20/16 13:35		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.20**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.3**	Std. Units	0.10	0.10	1		01/11/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:58	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.8**	mg/L	1.0	0.50	1		01/13/16 23:03	16887-00-6	
Sulfate	**14.5**	mg/L	1.0	0.24	1		01/13/16 23:03	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 08:54	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.13**	mg/L	0.10	0.014	1		01/12/16 15:05		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:05		
Nitrogen, NO2 plus NO3	**0.13**	mg/L	0.10	0.014	1		01/12/16 15:05		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**220**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.55J**	mg/L	1.0	0.50	1		01/20/16 13:57	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.099**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 15:53		

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: GCSV/4868 Analysis Method: EPA 8015 - Alcohol
QC Batch Method: EPA 8015 - Alcohol Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60210969001, 60210969002, 60210969003

METHOD BLANK: 194580 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/14/16 10:24	

LABORATORY CONTROL SAMPLE: 194581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	87400	87	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194582 194583

Parameter	Units	60210853011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	86700	70800	87	71	40-140	20	40	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: MPRP/34568 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60210969001, 60210969002, 60210969003

METHOD BLANK: 1696258 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002, 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	9.0	01/18/16 16:30	
Manganese	ug/L	ND	5.0	2.4	01/18/16 16:30	

LABORATORY CONTROL SAMPLE: 1696259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9680	97	80-120	
Manganese	ug/L	1000	966	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696260 1696261

Parameter	Units	60210967013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	8640	10000	10000	18300	18500	97	98	75-125	1	20	
Manganese	ug/L	6130	1000	1000	7110	7190	98	106	75-125	1	20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: MSV/73727 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210969001, 60210969002, 60210969003

METHOD BLANK: 1696308 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002, 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 09:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 09:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 09:11	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 09:11	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 09:11	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 09:11	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 09:11	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 09:11	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 09:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 09:11	
Acetone	ug/L	ND	10.0	1.9	01/13/16 09:11	
Benzene	ug/L	ND	1.0	0.060	01/13/16 09:11	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 09:11	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 09:11	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 09:11	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 09:11	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 09:11	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 09:11	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 09:11	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 09:11	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 09:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 09:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 09:11	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 09:11	
Ethylbenzene	ug/L	ND	1.0	0.18	01/13/16 09:11	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 09:11	
Styrene	ug/L	ND	1.0	0.12	01/13/16 09:11	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 09:11	
Toluene	ug/L	ND	1.0	0.17	01/13/16 09:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 09:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 09:11	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 09:11	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 09:11	
Xylene (Total)	ug/L	ND	3.0	0.42	01/13/16 09:11	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 09:11	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 09:11	
Toluene-d8 (S)	%	105	80-120		01/13/16 09:11	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

LABORATORY CONTROL SAMPLE: 1696309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.4	97	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	96	73-121	
1,1,2-Trichloroethane	ug/L	20	17.6	88	80-120	
1,1-Dichloroethane	ug/L	20	21.0	105	80-120	
1,1-Dichloroethene	ug/L	20	19.1	95	80-120	
1,2-Dichloroethane	ug/L	20	19.3	97	81-120	
1,2-Dichloropropane	ug/L	20	19.3	97	80-120	
2-Butanone (MEK)	ug/L	100	109	109	67-122	
2-Hexanone	ug/L	100	109	109	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	76-120	
Acetone	ug/L	100	118	118	72-120	
Benzene	ug/L	20	20.3	102	80-120	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	17.6	88	73-138	
Bromomethane	ug/L	20	22.2	111	38-137	
Carbon disulfide	ug/L	20	21.1	105	71-129	
Carbon tetrachloride	ug/L	20	19.0	95	67-146	
Chlorobenzene	ug/L	20	19.7	99	80-120	
Chloroethane	ug/L	20	18.7	94	76-120	
Chloroform	ug/L	20	18.4	92	80-120	
Chloromethane	ug/L	20	20.4	102	34-165	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	80-120	
Dibromochloromethane	ug/L	20	19.1	96	80-126	
Ethylbenzene	ug/L	20	20.7	104	80-120	
Methylene chloride	ug/L	20	20.0	100	80-120	
Styrene	ug/L	20	22.0	110	80-123	
Tetrachloroethene	ug/L	20	18.1	91	80-123	
Toluene	ug/L	20	19.8	99	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.1	100	80-129	
Trichloroethene	ug/L	20	18.5	93	80-120	
Vinyl chloride	ug/L	20	22.0	110	62-125	
Xylene (Total)	ug/L	60	64.7	108	80-120	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WET/59653 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60210969001, 60210969002, 60210969003

METHOD BLANK: 1699425 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002, 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/20/16 12:24	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/20/16 12:24	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/20/16 12:24	

LABORATORY CONTROL SAMPLE: 1699426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	490	98	90-110	

SAMPLE DUPLICATE: 1699427

Parameter	Units	60210967014 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	175	179	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	175	179	2	10	

SAMPLE DUPLICATE: 1699428

Parameter	Units	60210969002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	51.2	51.2	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	51.2	51.2	0	10	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WET/59530 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60210969001, 60210969002, 60210969003

METHOD BLANK: 1696147 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002, 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/13/16 13:39	

LABORATORY CONTROL SAMPLE: 1696148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.52	105	80-120	

MATRIX SPIKE SAMPLE: 1696149

Parameter	Units	60210924011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.40	81	75-125	

SAMPLE DUPLICATE: 1696150

Parameter	Units	60210924012 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1696151

Parameter	Units	60210967019 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WETA/37705 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60210969001, 60210969002, 60210969003

METHOD BLANK: 1696310 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002, 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/13/16 21:22	
Sulfate	mg/L	ND	1.0	0.25	01/13/16 21:22	

LABORATORY CONTROL SAMPLE: 1696311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.2	104	90-110	
Sulfate	mg/L	5	4.7	94	90-110	

MATRIX SPIKE SAMPLE: 1696312

Parameter	Units	60210969001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5.5	5	10.2	94	80-120	
Sulfate	mg/L	6.9	5	11.4	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696313 1696314

Parameter	Units	60211031002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1130	500	500	1600	1590	93	93	80-120	0	15	
Sulfate	mg/L	ND	500	500	507	510	90	91	80-120	1	15	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WETA/37767 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60210969001, 60210969002, 60210969003

METHOD BLANK: 1698752 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002, 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/19/16 08:36	

LABORATORY CONTROL SAMPLE: 1698753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1698754

Parameter	Units	60210944002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.76	2	2.9	107	90-110	

MATRIX SPIKE SAMPLE: 1698755

Parameter	Units	60210970005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	2	2.2	101	90-110	

SAMPLE DUPLICATE: 1698756

Parameter	Units	60210971002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	5.9	5.9	1	18	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WETA/37685 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60210969001, 60210969002, 60210969003

METHOD BLANK: 1695930 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002, 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.014	01/12/16 14:44	
Nitrogen, Nitrite	mg/L	ND	0.10	0.023	01/12/16 14:44	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	0.014	01/12/16 14:44	

LABORATORY CONTROL SAMPLE: 1695931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	101	85-115	
Nitrogen, Nitrite	mg/L	.4	0.38	96	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 1695932

Parameter	Units	60210951002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.21	1.6	1.9	104	85-115	
Nitrogen, Nitrite	mg/L	ND	.4	0.42	104	90-110	
Nitrogen, NO2 plus NO3	mg/L	0.21	2	2.3	104	90-110	

MATRIX SPIKE SAMPLE: 1695933

Parameter	Units	60210957002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	26.3	16	39.5	83	85-115	M1
Nitrogen, Nitrite	mg/L	ND	4	4.0	101	90-110	
Nitrogen, NO2 plus NO3	mg/L	26.3	20	43.5	86	90-110	M1

SAMPLE DUPLICATE: 1695934

Parameter	Units	60210963001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.052J	0.041J		20	
Nitrogen, Nitrite	mg/L	<0.023	ND		20	
Nitrogen, NO2 plus NO3	mg/L	0.052J	0.041J		20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WETA/37721 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60210969001, 60210969002

METHOD BLANK: 1696971 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/19/16 09:40	

LABORATORY CONTROL SAMPLE: 1696972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.6	112	80-120	

MATRIX SPIKE SAMPLE: 1696973

Parameter	Units	60210855001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.9	5	5.9	80	80-120	

SAMPLE DUPLICATE: 1696974

Parameter	Units	60210856002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	7.5	7.6	2	25	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WETA/37791 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60210969003

METHOD BLANK: 1699297 Matrix: Water
Associated Lab Samples: 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/20/16 13:31	

LABORATORY CONTROL SAMPLE: 1699298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.6	111	80-120	

MATRIX SPIKE SAMPLE: 1699299

Parameter	Units	60210969003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	0.55J	5	6.4	117	80-120	

SAMPLE DUPLICATE: 1699300

Parameter	Units	60210974001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WETA/10248
QC Batch Method: SM4500-P B
Analysis Method: SM 4500-P E
Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60210969001, 60210969002

METHOD BLANK: 195386 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.014J	0.030	0.010	01/15/16 14:35	

LABORATORY CONTROL SAMPLE: 195387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.3	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195388 195389

Parameter	Units	7537074001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.091	1.5	1.5	1.9	1.4	117	88	80-120	27	20	R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195390 195391

Parameter	Units	60210924012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.28	1.5	1.5	2.4	1.5	139	80	80-120	46	20	M1,R1

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WETA/10263
QC Batch Method: SM4500-P B
Analysis Method: SM 4500-P E
Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60210969003

METHOD BLANK: 195829
Matrix: Water
Associated Lab Samples: 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.014J	0.030	0.010	01/19/16 15:52	

LABORATORY CONTROL SAMPLE: 195830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.4	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195831 195832

Parameter	Units	60210967013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.19	1.5	1.5	1.3	1.2	70	69	80-120	2	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195833 195834

Parameter	Units	60210974003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.39	1.5	1.5	1.4	1.6	67	78	80-120	11	20	M1

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QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60210969

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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LABORATORIES

PASI-D	Pace Analytical Services - Dallas
PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73727

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: WET/59730

[1] Ferrous Fe performed in the field

Batch: WET/59733

[1] Field pH

ANALYTE QUALIFIERS

H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210969001	MW-99-201601	EPA 8015 - Alcohol	GCSV/4868		
60210969002	MW-184-201601	EPA 8015 - Alcohol	GCSV/4868		
60210969003	MW-98-201601	EPA 8015 - Alcohol	GCSV/4868		
60210969001	MW-99-201601	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210969002	MW-184-201601	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210969003	MW-98-201601	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210969001	MW-99-201601	EPA 5030B/8260	MSV/73727		
60210969002	MW-184-201601	EPA 5030B/8260	MSV/73727		
60210969003	MW-98-201601	EPA 5030B/8260	MSV/73727		
60210969001	MW-99-201601	SM 2320B	WET/59653		
60210969002	MW-184-201601	SM 2320B	WET/59653		
60210969003	MW-98-201601	SM 2320B	WET/59653		
60210969001	MW-99-201601	SM 3500-Fe B#4	WET/59730		
60210969002	MW-184-201601	SM 3500-Fe B#4	WET/59730		
60210969003	MW-98-201601	SM 3500-Fe B#4	WET/59730		
60210969001	MW-99-201601	SM 4500-H+B	WET/59733		
60210969002	MW-184-201601	SM 4500-H+B	WET/59733		
60210969003	MW-98-201601	SM 4500-H+B	WET/59733		
60210969001	MW-99-201601	SM 4500-S-2 D	WET/59530		
60210969002	MW-184-201601	SM 4500-S-2 D	WET/59530		
60210969003	MW-98-201601	SM 4500-S-2 D	WET/59530		
60210969001	MW-99-201601	EPA 300.0	WETA/37705		
60210969002	MW-184-201601	EPA 300.0	WETA/37705		
60210969003	MW-98-201601	EPA 300.0	WETA/37705		
60210969001	MW-99-201601	EPA 350.1	WETA/37767		
60210969002	MW-184-201601	EPA 350.1	WETA/37767		
60210969003	MW-98-201601	EPA 350.1	WETA/37767		
60210969001	MW-99-201601	EPA 353.2	WETA/37685		
60210969002	MW-184-201601	EPA 353.2	WETA/37685		
60210969003	MW-98-201601	EPA 353.2	WETA/37685		
60210969001	MW-99-201601	SM 4500-CO2 D	WETA/37845		
60210969002	MW-184-201601	SM 4500-CO2 D	WETA/37845		
60210969003	MW-98-201601	SM 4500-CO2 D	WETA/37845		
60210969001	MW-99-201601	SM 5310C	WETA/37721		
60210969002	MW-184-201601	SM 5310C	WETA/37721		
60210969003	MW-98-201601	SM 5310C	WETA/37791		
60210969001	MW-99-201601	SM4500-P B	WETA/10248	SM 4500-P E	WETA/10256
60210969002	MW-184-201601	SM4500-P B	WETA/10248	SM 4500-P E	WETA/10256
60210969003	MW-98-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267

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Sample Condition Upon Receipt

WO# : 60210969

60210969

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☑ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 2.5/5.1

Date and initials of person examining contents: DJ 1/12/16

Temperature should be above freezing to 6°C

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 holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. Ferr NO2/NO3 pH
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☐Yes ☑No ☐N/A	
Pace Trip Blank lot # (if purchased): _____		15.
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☑N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CBC Date: 01/12/16

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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 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Environ	Report To:	Wendy Stonestreet	Attention:	Tammy Gleason
Address:	7500 College Blvd., Ste. 925	Copy To:	Tammy Gleason	Company Name:	Environ
	Overland Park, KS 66210			Address:	250 Monroe Ave. NW Grand Rapids
Email To:	wstonestreet@environcorp.com	Purchase Order No.:	NA	Pace Quote Reference:	Michigan, 49503
Phone:	913-553-5926 Fax:	Project Name:	Fort Smith, AR	Pace Project Manager:	Colleen Clyne
Requested Due Date/TAT:	10 day TAT	Project Number:	34375000	Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: MATRIX / CODE	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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity + field pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
		DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS																																60210969
1	MW-99-201601 3DG4H 3DG9L	WT	G	1BP3U	1BP3S2.0	1/11/16	0935		11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N	1BP3S2.0	1BP3N2.0	1BP3Z11.0
2	MW-184-201601	WT	G				1105		11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N			
3	MW-98-201601	WT	G				1333		11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N			
4																																		
5																																		
6																																		
7																																		
8																																		
9																																		
10																																		
11																																		
12																																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE		ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Lucy Cross/Rambell ENVIRON	1/11/16	1830		1/12/16	0750	2-5	Y	Y	Y
							5-1	Y	Y	Y

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Lucy Cross					
SIGNATURE of SAMPLER:	Lucy Cross	DATE Signed (MM/DD/YY): 1/11/2016				

*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-Feb-2007

Chain of Custody

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Workorder: 60210969 **Workorder Name:** FORT SMITH AR **Owner Received Date:** 1/12/2016 **Results Requested By:** 1/22/2016

Report To	Subcontract To
Colleen Clyne Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Dallas 400 West Bethany Drive Suite 190 Allen, TX 75013 Phone (972)727-1123

						Preserved Containers						Requested Analysis												
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	BP3S	DG9U					8015 Chlorethanol	Total Phosphate											LAB USE ONLY
1	MW-99-201601	PS	1/11/2016 09:35	60210969001	Water	1	3					X	X											001
2	MW-184-201601	PS	1/11/2016 11:05	60210969002	Water	1	3					X	X											002
3	MW-98-201601	PS	1/11/2016 13:33	60210969003	Water	1	3					X	X											003
4																								
5																								

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	[signature]	1/12/16 1700	[signature]	1/13/16 09:05	
2					
3					

Cooler Temperature on Receipt 0.1 °C	Custody Seal Y or	Received on Ice Y or	Samples Intact Y or N
TR-02			

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

WO#: 7537280

7537280

Pace Analytical

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐San Angelo

Client Name: Pace - Kansas Project Work order: 75372980

Courier: FedEX ☑ UPS ☐ USPS ☐ Client ☐ Courier ☐ LSO ☐ PACE ☐ Other:

Tracking#: 6509 8163 6390

Custody Seal on Cooler/Box: Yes ☑ No ☐ Seals Intact: Yes ☑ No ☐ NA ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☑ Other ☐

Thermometer Used: IR-01 ~~IR-03~~ Type of Ice: Wet ☑ Blue ☐ None ☐ Sample Received on ice, cooling process has begun ☑

Cooler Temp: 0.1 (Temp should be above freezing to 6°C)

Chain of Custody Present	Yes ☑ No ☐ NA ☐	1
Chain of Custody filled out	Yes ☑ No ☐ NA ☐	2
Chain of Custody relinquished	Yes ☑ No ☐ NA ☐	3
Sampler name & signature on COC	Yes ☐ No ☑ NA ☐	4
Sample received within HT	Yes ☑ No ☐ NA ☐	5
Short HT analyses (<72 hrs)	Yes ☐ No ☑ NA ☐	6
Rush TAT requested	Yes ☐ No ☑ NA ☐	7
Sufficient Volume received	Yes ☑ No ☐ NA ☐	8
Correct Container used Pace Container used	Yes ☑ No ☐ NA ☐ Yes ☑ No ☐ NA ☐	9
Container Intact	Yes ☑ No ☐ NA ☐	10
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑	11
Filtered volume received for Dissolved tests	Yes ☐ No ☐ NA ☑	12
Sample labels match COC Include date/time/ID/analyses Matrix: WATER	Yes ☑ No ☐ NA ☐	13
All containers needing preservation have been checked	Yes ☑ No ☐ NA ☐	14a. Lot# of pH strip: 6412003 pH checked Yes ☑ No ☐ pH<2 ☑ pH>9 ☐ pH>12 ☐ Lot# of Iodine strip: Lot# of Lead Acetate strip:
Do containers require preservation at the lab	Yes ☐ No ☑ NA ☐	14b. Preservation: / Lot#:
All containers needing preservation are found to be in Compliance with EPA recommendation Exception: VOA, coliform, O&G	Yes ☑ No ☐ NA ☐ Yes ☑ No ☐	14c.
Are soil samples (volatiles) received in Bulk ☐ Terracore ☐ EnCore ☐ NA ☑		15.
Trip Blank present Trip Blank Custody Seals Intact Pace Trip Blank Lot# (if purchased):	Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑	16.
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☑	17.
Project sampled in USDA Regulated Area:	Yes ☐ No ☐ NA ☑	18. List State

Client Notification/Resolution/Comments:

Person Contacted: Date:

Comments/Resolution:

Person Examining Contents: Date: 1/13/16

Pace Analytical Services - Dallas

Sample Container Count-

COC PAGE 1 of 1

COC ID# _____

Pace Project # 7537280

Sample Line Item	AG1S	AG1U	AG3S	BG1S	BP1U	BP2N	BP2S	BP2U	BP20	SP5T	VG9H	DG9M	VG9U	VG9W	WGFU	WGKU	BP3C	GN	WG2U	BP3S				
1							1						3											
2							1						3											
3							1						3											
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Container Codes

AF	Air Filter	BP1A	1 liter NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic	R	terra core kit
AG1H	1L HCL Amber Glass	BP1N	1 liter HNO3 plastic	BP3U	250mL unpreserved plastic	SP5T	120mL Coliform Na Thiosulfate
AG1S	1L H2SO4 Amber Glass	BP1S	1 liter H2SO4 plastic	BP3Z	250mL NaOH, Zn Ac plastic	SP5U	120mL Coliform unpreserved
AG1T	1L Sodium Thiosulfate Amber	BP1U	1 liter unpreserved plastic	C	Air Cassettes	VG9H	40mL HCL clear vial
AG1U	1L Unpreserved Amber Glass	BP1Z	1 liter NaOH, Zn, Ac	DG9B	40mL Na Bisulfate amber vial	VG9T	40mL Na Thio. clear vial
AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plasti	DG9H	40mL HCL amber voa vial	VG9U	40mL unpreserved clear vial
AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	DG9M	40mL MeOH clear vial	VG9W	40mL Unpreserved Tared
AG2U	500mL unpreserved amber glas	BP2O	500mL NaOH plastic	DG9P	40mL TSP amber vial	VSG	Headspace septa vial & HCL
AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	DG9S	40mL H2SO4 amber vial	WGFU	4oz clear soil jar
AG3U	250mL unpreserved amber glas	BP2U	500mL unpreserved plastic	DG9T	40mL Na Thio amber vial	WGFX	4oz wide jar w/hexane wipe
BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac	DG9U	40mL unpreserved amber vial	WGKU	8oz wide jar upreserved
BG1S	1 liter H2SO4 clear glass	BP3A	250mL NaOh, Asc Acid plasti	GN	General unpreserved	WG2U	2oz clear jar
BG1T	1 liter Na Thiosulfate clear gla	BP3C	250mL NaOH plastic	I	Wipe/Swab	ZPLC	Ziploc Bag
BG1U	1 liter unpreserved glass	BP3N	250mL HNO3 plastic	JGFU	4oz unpreserved amber wide	Other	Other

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 27, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60210974

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

Dallas Certification IDs:

400 West Bethany Dr Suite 190, Allen, TX 75013
EPA# TX00074
Texas Certification #: T104704232-15-12
Texas Certification #: T104704232-14-8
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 2014-055
Louisiana Certification #: 02007

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SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60210974001	**MW-191-201601**	Water	01/11/16 14:46	01/12/16 07:50
60210974002	**MW-192-201601**	Water	01/11/16 12:42	01/12/16 07:50
60210974003	**MW-185-201601**	Water	01/11/16 09:56	01/12/16 07:50
60210974004	**MW-190-201601**	Water	01/11/16 17:00	01/12/16 07:50
60210974005	**MW-50R-201601**	Water	01/11/16 09:55	01/12/16 07:50
60210974006	**MW-60R-201601**	Water	01/11/16 12:15	01/12/16 07:50
60210974007	**MW-67R-201601**	Water	01/11/16 14:35	01/12/16 07:50
60210974008	**MW-66-201601**	Water	01/11/16 16:25	01/12/16 07:50
60210974009	**MW-193-201601**	Water	01/11/16 15:08	01/12/16 07:50
60210974010	**MW-62R-201601**	Water	01/11/16 11:35	01/12/16 07:50
60210974011	**MW-56R-201601**	Water	01/11/16 13:30	01/12/16 07:50
60210974012	**MW-57R-201601**	Water	01/11/16 15:00	01/12/16 07:50
60210974013	**MW-71-201601**	Water	01/11/16 16:15	01/12/16 07:50
60210974014	**EB-01-201601**	Water	01/11/16 17:13	01/12/16 07:50
60210974015	**TB-03-201601**	Water	01/11/16 08:00	01/12/16 07:50
60210974016	**TB-04-201601**	Water	01/11/16 08:00	01/12/16 07:50
60210974017	**TB-05-201601**	Water	01/11/16 08:00	01/12/16 07:50
60210974018	**TB-06-201601**	Water	01/11/16 08:00	01/12/16 07:50
60210974019	**EB-02-201601**	Water	01/11/16 17:50	01/12/16 07:50

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60210974001	**MW-191-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974002	**MW-192-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974003	**MW-185-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974004	**MW-190-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974005	**MW-50R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974006	**MW-60R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974007	**MW-67R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974008	**MW-66-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974009	**MW-193-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K

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Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974010	**MW-62R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974011	**MW-56R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974012	**MW-57R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974013	**MW-71-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974014	**EB-01-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210974015	**TB-03-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210974016	**TB-04-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210974017	**TB-05-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210974018	**TB-06-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210974019	**EB-02-201601**	EPA 5030B/8260	PGH	38	PASI-K

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **EPA 8015 - Alcohol**
Description: Alcohol by Direct Inject GCFID
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for EPA 8015 - Alcohol. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 27, 2016

General Information:
19 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73727

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73728

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **SM 3500-Fe B#4**
Description: Iron, Ferric (Calculation)
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for SM 3500-Fe B#4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Ferrous Fe performed in the field
- QC Batch: WET / 59731

Ferrous Fe perfromed in the field
- QC Batch: WET / 59750

Analyte Comments:

QC Batch: WET/59750

1e: Total Iron was confirmed.
- MW-67R-201601 (Lab ID: 60210974007)
  - Iron, Ferric

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-185-201601 (Lab ID: 60210974003)
- MW-190-201601 (Lab ID: 60210974004)
- MW-191-201601 (Lab ID: 60210974001)
- MW-192-201601 (Lab ID: 60210974002)
- MW-193-201601 (Lab ID: 60210974009)
- MW-50R-201601 (Lab ID: 60210974005)
- MW-56R-201601 (Lab ID: 60210974011)
- MW-57R-201601 (Lab ID: 60210974012)
- MW-60R-201601 (Lab ID: 60210974006)
- MW-62R-201601 (Lab ID: 60210974010)
- MW-66-201601 (Lab ID: 60210974008)
- MW-67R-201601 (Lab ID: 60210974007)
- MW-71-201601 (Lab ID: 60210974013)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Field pH
- QC Batch: WET / 59734

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **EPA 350.1**
Description: 350.1 Ammonia
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37768

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211017006,60211019003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1698759)
  - Nitrogen, Ammonia
- MS (Lab ID: 1698760)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37686

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210964001,60210964002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1695937)
  - Nitrogen, Nitrite

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **SM 4500-CO2 D**
Description: Total Carbon Dioxide Calc
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for SM 4500-CO2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **SM 5310C**
Description: 5310C TOC
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **SM 4500-P E**
Description: SM4500P-E, Total Phosphorus
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for SM 4500-P E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with SM4500-P B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/10263

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210967013,60210974003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 195831)
  - Phosphate as P04
- MS (Lab ID: 195833)
  - Phosphate as P04
- MSD (Lab ID: 195832)
  - Phosphate as P04
- MSD (Lab ID: 195834)
  - Phosphate as P04

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-191-201601 **Lab ID: 60210974001** Collected: 01/11/16 14:46 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 16:17	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**358**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:07	7439-89-6	
Manganese	**177**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:07	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 13:33	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 13:33	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 13:33	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 13:33	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 13:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 13:33	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 13:33	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 13:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 13:33	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 13:33	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 13:33	67-66-3	
Chloromethane	**0.20J**	ug/L	1.0	0.080	1		01/13/16 13:33	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 13:33	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 13:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 13:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 13:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 13:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 13:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 13:33	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 13:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 13:33	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 13:33	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 13:33	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 13:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 13:33	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 13:33	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 13:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 13:33	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 13:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 13:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 13:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 13:33	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 13:33	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 13:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 13:33	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 13:33	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/13/16 13:33	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 13:33		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-191-201601 **Lab ID: 60210974001** Collected: 01/11/16 14:46 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**54.0**	mg/L	20.0	2.0	1		01/20/16 13:39		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:39		
Alkalinity, Total as CaCO3	**54.0**	mg/L	20.0	2.0	1		01/20/16 13:39		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.36**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.5**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:58	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**9.4**	mg/L	1.0	0.50	1		01/13/16 18:15	16887-00-6	
Sulfate	**5.5**	mg/L	1.0	0.24	1		01/13/16 18:15	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:04	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**4.4**	mg/L	0.10	0.014	1		01/12/16 15:13		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:13		
Nitrogen, NO2 plus NO3	**4.4**	mg/L	0.10	0.014	1		01/12/16 15:13		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**85.0**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 14:49	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.18**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:03		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-192-201601 **Lab ID: 60210974002** Collected: 01/11/16 12:42 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 16:28	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**354**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:13	7439-89-6	
Manganese	**129**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:13	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 13:48	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 13:48	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 13:48	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 13:48	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 13:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 13:48	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 13:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 13:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 13:48	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 13:48	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 13:48	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 13:48	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 13:48	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 13:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 13:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 13:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 13:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 13:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 13:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 13:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 13:48	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 13:48	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 13:48	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 13:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 13:48	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 13:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 13:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 13:48	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 13:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 13:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 13:48	79-00-5	
Trichloroethene	**0.30J**	ug/L	1.0	0.17	1		01/13/16 13:48	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 13:48	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 13:48	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 13:48	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 13:48	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/13/16 13:48	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 13:48		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-192-201601 **Lab ID: 60210974002** Collected: 01/11/16 12:42 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**22.7**	mg/L	20.0	2.0	1		01/20/16 13:43		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:43		
Alkalinity, Total as CaCO3	**22.7**	mg/L	20.0	2.0	1		01/20/16 13:43		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.35**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.6**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:59	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**10.7**	mg/L	1.0	0.50	1		01/13/16 18:29	16887-00-6	
Sulfate	**5.7**	mg/L	1.0	0.24	1		01/13/16 18:29	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:05	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.2**	mg/L	0.10	0.014	1		01/12/16 15:16		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:16		
Nitrogen, NO2 plus NO3	**2.2**	mg/L	0.10	0.014	1		01/12/16 15:16		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**131**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.62J**	mg/L	1.0	0.50	1		01/20/16 15:15	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.27**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:03		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-185-201601 **Lab ID: 60210974003** Collected: 01/11/16 09:56 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 16:39	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**5480**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:20	7439-89-6	
Manganese	**146**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:20	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 14:02	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 14:02	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 14:02	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 14:02	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 14:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 14:02	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 14:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 14:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 14:02	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 14:02	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 14:02	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 14:02	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 14:02	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 14:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 14:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 14:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 14:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 14:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 14:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 14:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 14:02	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 14:02	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 14:02	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 14:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 14:02	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 14:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 14:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 14:02	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 14:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 14:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 14:02	79-00-5	
Trichloroethene	**0.87J**	ug/L	1.0	0.17	1		01/13/16 14:02	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 14:02	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 14:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/13/16 14:02	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		01/13/16 14:02	17060-07-0	
Toluene-d8 (S)	104	%	80-120		1		01/13/16 14:02	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 14:02		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-185-201601 **Lab ID: 60210974003** Collected: 01/11/16 09:56 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:48		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:48		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/20/16 13:48		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**5.5**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.8**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.9**	mg/L	1.0	0.50	1		01/13/16 18:44	16887-00-6	
Sulfate	**8.4**	mg/L	1.0	0.24	1		01/13/16 18:44	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:06	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.89**	mg/L	0.10	0.014	1		01/12/16 15:16		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:16		
Nitrogen, NO2 plus NO3	**0.89**	mg/L	0.10	0.014	1		01/12/16 15:16		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 15:28	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.39**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:04		M1

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-190-201601 **Lab ID: 60210974004** Collected: 01/11/16 17:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 16:50	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**5670**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:22	7439-89-6	
Manganese	**84.9**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:22	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**5.1J**	ug/L	10.0	1.9	1		01/13/16 14:17	67-64-1	
Benzene	**0.10J**	ug/L	1.0	0.060	1		01/13/16 14:17	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 14:17	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 14:17	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 14:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 14:17	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 14:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 14:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 14:17	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 14:17	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 14:17	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 14:17	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 14:17	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 14:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 14:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 14:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 14:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 14:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 14:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 14:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 14:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 14:17	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 14:17	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 14:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 14:17	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 14:17	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 14:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 14:17	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 14:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 14:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 14:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 14:17	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 14:17	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 14:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/13/16 14:17	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120		1		01/13/16 14:17	17060-07-0	
Toluene-d8 (S)	105	%	80-120		1		01/13/16 14:17	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 14:17		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-190-201601 **Lab ID: 60210974004** Collected: 01/11/16 17:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:54		
Alkalinity, Carbonate (CaCO3)	**84.9**	mg/L	20.0	2.0	1		01/20/16 13:54		
Alkalinity, Total as CaCO3	**241**	mg/L	20.0	2.0	1		01/20/16 13:54		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**2.4**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**12.0**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**22.7**	mg/L	5.0	2.5	5		01/13/16 18:58	16887-00-6	
Sulfate	**8.1**	mg/L	1.0	0.24	1		01/13/16 19:41	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.45**	mg/L	0.10	0.046	1		01/19/16 09:08	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.88**	mg/L	0.10	0.014	1		01/12/16 15:17		
Nitrogen, Nitrite	**0.032J**	mg/L	0.10	0.023	1		01/12/16 15:17		
Nitrogen, NO2 plus NO3	**0.91**	mg/L	0.10	0.014	1		01/12/16 15:17		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**37.4**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.1**	mg/L	1.0	0.50	1		01/20/16 15:41	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.54**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:05		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-50R-201601 **Lab ID: 60210974005** Collected: 01/11/16 09:55 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 17:02	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**8420**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:24	7439-89-6	
Manganese	**184**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:24	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 14:31	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 14:31	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 14:31	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 14:31	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 14:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 14:31	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 14:31	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 14:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 14:31	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 14:31	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 14:31	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 14:31	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 14:31	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 14:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 14:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 14:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 14:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 14:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 14:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 14:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 14:31	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 14:31	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 14:31	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 14:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 14:31	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 14:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 14:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 14:31	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 14:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 14:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 14:31	79-00-5	
Trichloroethene	**0.42J**	ug/L	1.0	0.17	1		01/13/16 14:31	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 14:31	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 14:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 14:31	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/13/16 14:31	17060-07-0	
Toluene-d8 (S)	105	%	80-120		1		01/13/16 14:31	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 14:31		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-50R-201601 **Lab ID: 60210974005** Collected: 01/11/16 09:55 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**217**	mg/L	20.0	2.0	1		01/20/16 14:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 14:00		
Alkalinity, Total as CaCO3	**217**	mg/L	20.0	2.0	1		01/20/16 14:00		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**7.0**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.6**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**219**	mg/L	20.0	10.0	20		01/13/16 20:10	16887-00-6	
Sulfate	**9.6**	mg/L	1.0	0.24	1		01/13/16 19:56	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:11	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/12/16 15:18		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:18		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/12/16 15:18		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**310**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 15:54	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.59**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:05		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-60R-201601 **Lab ID: 60210974006** Collected: 01/11/16 12:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 17:13	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**2120**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:27	7439-89-6	
Manganese	**2460**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:27	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 18:08	67-64-1	
Benzene	**0.12J**	ug/L	1.0	0.060	1		01/13/16 18:08	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 18:08	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 18:08	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 18:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 18:08	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 18:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 18:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 18:08	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 18:08	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 18:08	67-66-3	
Chloromethane	**0.20J**	ug/L	1.0	0.080	1		01/13/16 18:08	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 18:08	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 18:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 18:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 18:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 18:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 18:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 18:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 18:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 18:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 18:08	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 18:08	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 18:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 18:08	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 18:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 18:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 18:08	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 18:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 18:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 18:08	79-00-5	
Trichloroethene	**0.22J**	ug/L	1.0	0.17	1		01/13/16 18:08	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 18:08	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 18:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/13/16 18:08	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 18:08	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/13/16 18:08	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 18:08		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-60R-201601 **Lab ID: 60210974006** Collected: 01/11/16 12:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**405**	mg/L	20.0	2.0	1		01/20/16 14:06		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 14:06		
Alkalinity, Total as CaCO3	**405**	mg/L	20.0	2.0	1		01/20/16 14:06		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**1.8**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**7.0**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**114**	mg/L	10.0	5.0	10		01/13/16 23:32	16887-00-6	
Sulfate	**33.1**	mg/L	5.0	1.2	5		01/13/16 23:18	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:14	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/12/16 15:19		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:19		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/12/16 15:19		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**441**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.64J**	mg/L	1.0	0.50	1		01/20/16 16:07	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.14**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:05		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-67R-201601 **Lab ID: 60210974007** Collected: 01/11/16 14:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 17:24	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**1960**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:29	7439-89-6	
Manganese	**1020**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:29	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 18:23	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 18:23	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 18:23	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 18:23	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 18:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 18:23	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 18:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 18:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 18:23	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 18:23	75-00-3	
Chloroform	**0.15J**	ug/L	1.0	0.14	1		01/13/16 18:23	67-66-3	
Chloromethane	**0.20J**	ug/L	1.0	0.080	1		01/13/16 18:23	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 18:23	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 18:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 18:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 18:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 18:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 18:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 18:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 18:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 18:23	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 18:23	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 18:23	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 18:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 18:23	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 18:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 18:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 18:23	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 18:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 18:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 18:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 18:23	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 18:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 18:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/13/16 18:23	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/13/16 18:23	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/13/16 18:23	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 18:23		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-67R-201601 **Lab ID: 60210974007** Collected: 01/11/16 14:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**299**	mg/L	20.0	2.0	1		01/20/16 14:22		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 14:22		
Alkalinity, Total as CaCO3	**299**	mg/L	20.0	2.0	1		01/20/16 14:22		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/27/16 00:00	7439-89-6	1e
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.8**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**107**	mg/L	10.0	5.0	10		01/14/16 12:12	16887-00-6	
Sulfate	**27.2**	mg/L	2.0	0.47	2		01/14/16 11:57	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:16	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/12/16 15:20		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:20		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/12/16 15:20		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**360**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.7**	mg/L	1.0	0.50	1		01/20/16 16:20	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.095**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:05		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-66-201601 **Lab ID: 60210974008** Collected: 01/11/16 16:25 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 17:35	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**7740**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:31	7439-89-6	
Manganese	**89.6**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:31	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 19:06	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 19:06	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 19:06	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 19:06	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 19:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 19:06	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 19:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 19:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 19:06	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 19:06	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 19:06	67-66-3	
Chloromethane	**0.16J**	ug/L	1.0	0.080	1		01/13/16 19:06	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 19:06	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 19:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 19:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 19:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 19:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 19:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 19:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 19:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 19:06	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 19:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 19:06	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 19:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 19:06	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 19:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 19:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 19:06	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 19:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 19:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 19:06	79-00-5	
Trichloroethene	**0.53J**	ug/L	1.0	0.17	1		01/13/16 19:06	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 19:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 19:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/13/16 19:06	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/13/16 19:06	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/13/16 19:06	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 19:06		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-66-201601 **Lab ID: 60210974008** Collected: 01/11/16 16:25 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**61.7**	mg/L	20.0	2.0	1		01/20/16 14:27		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 14:27		
Alkalinity, Total as CaCO3	**61.7**	mg/L	20.0	2.0	1		01/20/16 14:27		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**7.2**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.5**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.50	0.12	10		01/13/16 14:03	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**34.9**	mg/L	5.0	2.5	5		01/14/16 12:40	16887-00-6	
Sulfate	**3.1**	mg/L	1.0	0.24	1		01/14/16 12:26	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:17	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.43**	mg/L	0.10	0.014	1		01/12/16 15:21		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:21		
Nitrogen, NO2 plus NO3	**0.43**	mg/L	0.10	0.014	1		01/12/16 15:21		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**91.5**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.4**	mg/L	1.0	0.50	1		01/20/16 16:33	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.38**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:06		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-193-201601 **Lab ID: 60210974009** Collected: 01/11/16 15:08 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 17:47	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**3400**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:33	7439-89-6	
Manganese	**2050**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:33	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 18:37	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 18:37	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 18:37	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 18:37	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 18:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 18:37	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 18:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 18:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 18:37	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 18:37	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 18:37	67-66-3	
Chloromethane	**0.14J**	ug/L	1.0	0.080	1		01/13/16 18:37	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 18:37	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 18:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 18:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 18:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 18:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 18:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 18:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 18:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 18:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 18:37	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 18:37	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 18:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 18:37	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 18:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 18:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 18:37	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 18:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 18:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 18:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 18:37	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 18:37	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 18:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/13/16 18:37	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/13/16 18:37	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/13/16 18:37	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 18:37		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-193-201601 **Lab ID: 60210974009** Collected: 01/11/16 15:08 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**71.6**	mg/L	20.0	2.0	1		01/20/16 14:31		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 14:31		
Alkalinity, Total as CaCO3	**71.6**	mg/L	20.0	2.0	1		01/20/16 14:31		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**3.2**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.6**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:03	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**9.6**	mg/L	1.0	0.50	1		01/15/16 05:14	16887-00-6	
Sulfate	**37.0**	mg/L	5.0	1.2	5		01/15/16 05:29	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:18	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.27**	mg/L	0.10	0.014	1		01/12/16 15:22		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:22		
Nitrogen, NO2 plus NO3	**0.27**	mg/L	0.10	0.014	1		01/12/16 15:22		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**391**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.65J**	mg/L	1.0	0.50	1		01/20/16 17:13	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.19**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:06		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-62R-201601 **Lab ID: 60210974010** Collected: 01/11/16 11:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 17:58	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**285**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:35	7439-89-6	
Manganese	**944**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:35	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 18:52	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 18:52	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 18:52	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 18:52	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 18:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 18:52	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 18:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 18:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 18:52	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 18:52	75-00-3	
Chloroform	**0.33J**	ug/L	1.0	0.14	1		01/13/16 18:52	67-66-3	
Chloromethane	**0.13J**	ug/L	1.0	0.080	1		01/13/16 18:52	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 18:52	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 18:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 18:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 18:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 18:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 18:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 18:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 18:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 18:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 18:52	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 18:52	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 18:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 18:52	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 18:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 18:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 18:52	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 18:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 18:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 18:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 18:52	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 18:52	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 18:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/13/16 18:52	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		01/13/16 18:52	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/13/16 18:52	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 18:52		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-62R-201601 **Lab ID: 60210974010** Collected: 01/11/16 11:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**66.8**	mg/L	20.0	2.0	1		01/20/16 14:35		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 14:35		
Alkalinity, Total as CaCO3	**66.8**	mg/L	20.0	2.0	1		01/20/16 14:35		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.28**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.8**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:03	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**139**	mg/L	10.0	5.0	10		01/14/16 01:42	16887-00-6	
Sulfate	**7.4**	mg/L	1.0	0.24	1		01/14/16 01:27	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:19	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.033J**	mg/L	0.10	0.014	1		01/12/16 15:22		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:22		
Nitrogen, NO2 plus NO3	**0.033J**	mg/L	0.10	0.014	1		01/12/16 15:22		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**296**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 17:26	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.051**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:06		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-56R-201601 **Lab ID: 60210974011** Collected: 01/11/16 13:30 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 18:09	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**342**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:38	7439-89-6	
Manganese	**3140**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:38	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 19:36	67-64-1	
Benzene	**0.16J**	ug/L	1.0	0.060	1		01/13/16 19:36	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 19:36	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 19:36	75-25-2	
Bromomethane	**1.0J**	ug/L	5.0	0.16	1		01/13/16 19:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 19:36	78-93-3	
Carbon disulfide	**0.16J**	ug/L	5.0	0.12	1		01/13/16 19:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 19:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 19:36	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 19:36	75-00-3	
Chloroform	**0.70J**	ug/L	1.0	0.14	1		01/13/16 19:36	67-66-3	
Chloromethane	**0.20J**	ug/L	1.0	0.080	1		01/13/16 19:36	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 19:36	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 19:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 19:36	107-06-2	
1,1-Dichloroethene	**1.6**	ug/L	1.0	0.20	1		01/13/16 19:36	75-35-4	
cis-1,2-Dichloroethene	**19.2**	ug/L	1.0	0.080	1		01/13/16 19:36	156-59-2	
trans-1,2-Dichloroethene	**0.28J**	ug/L	1.0	0.20	1		01/13/16 19:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 19:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 19:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 19:36	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 19:36	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 19:36	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 19:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 19:36	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 19:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 19:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 19:36	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 19:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 19:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 19:36	79-00-5	
Trichloroethene	**408**	ug/L	5.0	0.85	5		01/14/16 14:20	79-01-6	
Vinyl chloride	**0.32J**	ug/L	1.0	0.13	1		01/13/16 19:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 19:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 19:36	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 19:36	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/13/16 19:36	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 19:36		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-56R-201601 **Lab ID: 60210974011** Collected: 01/11/16 13:30 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**127**	mg/L	20.0	2.0	1		01/21/16 11:21		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 11:21		
Alkalinity, Total as CaCO3	**127**	mg/L	20.0	2.0	1		01/21/16 11:21		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.34**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.2**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:03	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**152**	mg/L	20.0	10.0	20		01/14/16 02:11	16887-00-6	
Sulfate	**17.8**	mg/L	2.0	0.47	2		01/14/16 01:56	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:20	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/12/16 15:23		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:23		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/12/16 15:23		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**258**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.93J**	mg/L	1.0	0.50	1		01/20/16 17:39	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.077**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:06		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-57R-201601 **Lab ID: 60210974012** Collected: 01/11/16 15:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 18:20	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**1610**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:40	7439-89-6	
Manganese	**1020**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:40	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 19:50	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 19:50	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 19:50	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 19:50	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 19:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 19:50	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 19:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 19:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 19:50	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 19:50	75-00-3	
Chloroform	**0.23J**	ug/L	1.0	0.14	1		01/13/16 19:50	67-66-3	
Chloromethane	**0.21J**	ug/L	1.0	0.080	1		01/13/16 19:50	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 19:50	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 19:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 19:50	107-06-2	
1,1-Dichloroethene	**1.7**	ug/L	1.0	0.20	1		01/13/16 19:50	75-35-4	
cis-1,2-Dichloroethene	**15.7**	ug/L	1.0	0.080	1		01/13/16 19:50	156-59-2	
trans-1,2-Dichloroethene	**0.26J**	ug/L	1.0	0.20	1		01/13/16 19:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 19:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 19:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 19:50	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 19:50	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 19:50	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 19:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 19:50	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 19:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 19:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 19:50	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 19:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 19:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 19:50	79-00-5	
Trichloroethene	**422**	ug/L	5.0	0.85	5		01/14/16 14:35	79-01-6	
Vinyl chloride	**0.48J**	ug/L	1.0	0.13	1		01/13/16 19:50	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 19:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/13/16 19:50	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 19:50	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/13/16 19:50	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 19:50		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-57R-201601 **Lab ID: 60210974012** Collected: 01/11/16 15:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**92.2**	mg/L	20.0	2.0	1		01/21/16 11:26		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 11:26		
Alkalinity, Total as CaCO3	**92.2**	mg/L	20.0	2.0	1		01/21/16 11:26		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**1.6**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.8**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:03	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**160**	mg/L	20.0	10.0	20		01/14/16 13:24	16887-00-6	
Sulfate	**4.9**	mg/L	1.0	0.24	1		01/14/16 12:55	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:21	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/12/16 15:31		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:31		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/12/16 15:31		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**409**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.68J**	mg/L	1.0	0.50	1		01/20/16 17:52	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.11**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:07		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-71-201601 **Lab ID: 60210974013** Collected: 01/11/16 16:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 18:31	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**325**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:46	7439-89-6	
Manganese	**1330**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:46	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 19:21	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 19:21	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 19:21	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 19:21	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 19:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 19:21	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 19:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 19:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 19:21	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 19:21	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 19:21	67-66-3	
Chloromethane	**0.11J**	ug/L	1.0	0.080	1		01/13/16 19:21	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 19:21	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 19:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 19:21	107-06-2	
1,1-Dichloroethene	**1.3**	ug/L	1.0	0.20	1		01/13/16 19:21	75-35-4	
cis-1,2-Dichloroethene	**6.1**	ug/L	1.0	0.080	1		01/13/16 19:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 19:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 19:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 19:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 19:21	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 19:21	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 19:21	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 19:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 19:21	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 19:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 19:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 19:21	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 19:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 19:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 19:21	79-00-5	
Trichloroethene	**171**	ug/L	1.0	0.17	1		01/13/16 19:21	79-01-6	
Vinyl chloride	**0.40J**	ug/L	1.0	0.13	1		01/13/16 19:21	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 19:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	80-120		1		01/13/16 19:21	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 19:21	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/13/16 19:21	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 19:21		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-71-201601 **Lab ID: 60210974013** Collected: 01/11/16 16:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**22.7**	mg/L	20.0	2.0	1		01/21/16 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 11:30		
Alkalinity, Total as CaCO3	**22.7**	mg/L	20.0	2.0	1		01/21/16 11:30		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.8**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:04	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**227**	mg/L	20.0	10.0	20		01/14/16 03:08	16887-00-6	
Sulfate	**2.6**	mg/L	1.0	0.24	1		01/14/16 02:54	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:22	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/12/16 15:27		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:27		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/12/16 15:27		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**93.5**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 18:05	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.043**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:52		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: EB-01-201601 **Lab ID: 60210974014** Collected: 01/11/16 17:13 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 16:41	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 16:41	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 16:41	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 16:41	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 16:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 16:41	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 16:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 16:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 16:41	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 16:41	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 16:41	67-66-3	
Chloromethane	**0.15J**	ug/L	1.0	0.080	1		01/13/16 16:41	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 16:41	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 16:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 16:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 16:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 16:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 16:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 16:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 16:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 16:41	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 16:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 16:41	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 16:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 16:41	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 16:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 16:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 16:41	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 16:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 16:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 16:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 16:41	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 16:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 16:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/13/16 16:41	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/13/16 16:41	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/13/16 16:41	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 16:41		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: TB-03-201601 **Lab ID: 60210974015** Collected: 01/11/16 08:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 15:43	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 15:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 15:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 15:43	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 15:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 15:43	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 15:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 15:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 15:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 15:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 15:43	67-66-3	
Chloromethane	**0.15J**	ug/L	1.0	0.080	1		01/13/16 15:43	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 15:43	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 15:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 15:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 15:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 15:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 15:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 15:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 15:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 15:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 15:43	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 15:43	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 15:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 15:43	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 15:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 15:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 15:43	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 15:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 15:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 15:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 15:43	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 15:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 15:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/13/16 15:43	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 15:43	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/13/16 15:43	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 15:43		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: TB-04-201601 **Lab ID: 60210974016** Collected: 01/11/16 08:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 15:58	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 15:58	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 15:58	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 15:58	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 15:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 15:58	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 15:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 15:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 15:58	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 15:58	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 15:58	67-66-3	
Chloromethane	**0.081J**	ug/L	1.0	0.080	1		01/13/16 15:58	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 15:58	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 15:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 15:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 15:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 15:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 15:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 15:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 15:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 15:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 15:58	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 15:58	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 15:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 15:58	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 15:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 15:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 15:58	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 15:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 15:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 15:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 15:58	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 15:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 15:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/13/16 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120		1		01/13/16 15:58	17060-07-0	
Toluene-d8 (S)	106	%	80-120		1		01/13/16 15:58	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 15:58		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: TB-05-201601 **Lab ID: 60210974017** Collected: 01/11/16 08:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 16:12	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 16:12	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 16:12	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 16:12	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 16:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 16:12	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 16:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 16:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 16:12	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 16:12	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 16:12	67-66-3	
Chloromethane	**0.10J**	ug/L	1.0	0.080	1		01/13/16 16:12	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 16:12	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 16:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 16:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 16:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 16:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 16:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 16:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 16:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 16:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 16:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 16:12	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 16:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 16:12	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 16:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 16:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 16:12	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 16:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 16:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 16:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 16:12	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 16:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 16:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 16:12	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/13/16 16:12	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/13/16 16:12	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 16:12		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: TB-06-201601 **Lab ID: 60210974018** Collected: 01/11/16 08:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 16:27	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 16:27	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 16:27	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 16:27	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 16:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 16:27	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 16:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 16:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 16:27	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 16:27	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 16:27	67-66-3	
Chloromethane	**0.11J**	ug/L	1.0	0.080	1		01/13/16 16:27	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 16:27	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 16:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 16:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 16:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 16:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 16:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 16:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 16:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 16:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 16:27	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 16:27	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 16:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 16:27	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 16:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 16:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 16:27	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 16:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 16:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 16:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 16:27	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 16:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 16:27	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 16:27	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 16:27	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/13/16 16:27	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 16:27		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: EB-02-201601 **Lab ID: 60210974019** Collected: 01/11/16 17:50 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 16:55	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 16:55	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 16:55	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 16:55	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 16:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 16:55	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 16:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 16:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 16:55	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 16:55	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 16:55	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 16:55	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 16:55	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 16:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 16:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 16:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 16:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 16:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 16:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 16:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 16:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 16:55	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 16:55	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 16:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 16:55	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 16:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 16:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 16:55	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 16:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 16:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 16:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 16:55	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 16:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 16:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 16:55	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/13/16 16:55	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		01/13/16 16:55	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 16:55		

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: GCSV/4870 Analysis Method: EPA 8015 - Alcohol
QC Batch Method: EPA 8015 - Alcohol Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

METHOD BLANK: 194891 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/14/16 10:36	

LABORATORY CONTROL SAMPLE: 194892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	88400	88	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194893 194894

Parameter	Units	60210967019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	102000	94400	102	94	40-140	8	40	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: MPRP/34569 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

METHOD BLANK: 1696263 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	9.0	01/18/16 17:05	
Manganese	ug/L	ND	5.0	2.4	01/18/16 17:05	

LABORATORY CONTROL SAMPLE: 1696264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9960	100	80-120	
Manganese	ug/L	1000	966	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696265 1696266

Parameter	Units	60210974001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	358	10000	10000	10200	10400	99	100	75-125	1	20	
Manganese	ug/L	177	1000	1000	1120	1130	94	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: MSV/73727 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005

METHOD BLANK: 1696308 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 09:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 09:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 09:11	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 09:11	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 09:11	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 09:11	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 09:11	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 09:11	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 09:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 09:11	
Acetone	ug/L	ND	10.0	1.9	01/13/16 09:11	
Benzene	ug/L	ND	1.0	0.060	01/13/16 09:11	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 09:11	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 09:11	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 09:11	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 09:11	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 09:11	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 09:11	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 09:11	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 09:11	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 09:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 09:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 09:11	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 09:11	
Ethylbenzene	ug/L	ND	1.0	0.18	01/13/16 09:11	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 09:11	
Styrene	ug/L	ND	1.0	0.12	01/13/16 09:11	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 09:11	
Toluene	ug/L	ND	1.0	0.17	01/13/16 09:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 09:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 09:11	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 09:11	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 09:11	
Xylene (Total)	ug/L	ND	3.0	0.42	01/13/16 09:11	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 09:11	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 09:11	
Toluene-d8 (S)	%	105	80-120		01/13/16 09:11	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

LABORATORY CONTROL SAMPLE: 1696309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.4	97	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	96	73-121	
1,1,2-Trichloroethane	ug/L	20	17.6	88	80-120	
1,1-Dichloroethane	ug/L	20	21.0	105	80-120	
1,1-Dichloroethene	ug/L	20	19.1	95	80-120	
1,2-Dichloroethane	ug/L	20	19.3	97	81-120	
1,2-Dichloropropane	ug/L	20	19.3	97	80-120	
2-Butanone (MEK)	ug/L	100	109	109	67-122	
2-Hexanone	ug/L	100	109	109	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	76-120	
Acetone	ug/L	100	118	118	72-120	
Benzene	ug/L	20	20.3	102	80-120	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	17.6	88	73-138	
Bromomethane	ug/L	20	22.2	111	38-137	
Carbon disulfide	ug/L	20	21.1	105	71-129	
Carbon tetrachloride	ug/L	20	19.0	95	67-146	
Chlorobenzene	ug/L	20	19.7	99	80-120	
Chloroethane	ug/L	20	18.7	94	76-120	
Chloroform	ug/L	20	18.4	92	80-120	
Chloromethane	ug/L	20	20.4	102	34-165	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	80-120	
Dibromochloromethane	ug/L	20	19.1	96	80-126	
Ethylbenzene	ug/L	20	20.7	104	80-120	
Methylene chloride	ug/L	20	20.0	100	80-120	
Styrene	ug/L	20	22.0	110	80-123	
Tetrachloroethene	ug/L	20	18.1	91	80-123	
Toluene	ug/L	20	19.8	99	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.1	100	80-129	
Trichloroethene	ug/L	20	18.5	93	80-120	
Vinyl chloride	ug/L	20	22.0	110	62-125	
Xylene (Total)	ug/L	60	64.7	108	80-120	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: MSV/73728 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013, 60210974014, 60210974015, 60210974016, 60210974017, 60210974018, 60210974019

METHOD BLANK: 1696364 Matrix: Water
Associated Lab Samples: 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013, 60210974014, 60210974015, 60210974016, 60210974017, 60210974018, 60210974019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 15:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 15:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 15:29	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 15:29	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 15:29	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 15:29	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 15:29	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 15:29	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 15:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 15:29	
Acetone	ug/L	ND	10.0	1.9	01/13/16 15:29	
Benzene	ug/L	ND	1.0	0.060	01/13/16 15:29	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 15:29	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 15:29	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 15:29	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 15:29	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 15:29	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 15:29	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 15:29	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 15:29	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 15:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 15:29	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 15:29	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 15:29	
Ethylbenzene	ug/L	ND	1.0	0.18	01/13/16 15:29	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 15:29	
Styrene	ug/L	ND	1.0	0.12	01/13/16 15:29	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 15:29	
Toluene	ug/L	ND	1.0	0.17	01/13/16 15:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 15:29	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 15:29	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 15:29	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 15:29	
Xylene (Total)	ug/L	ND	3.0	0.42	01/13/16 15:29	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 15:29	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 15:29	
Toluene-d8 (S)	%	103	80-120		01/13/16 15:29	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

LABORATORY CONTROL SAMPLE: 1696365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.8	94	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	21.1	106	73-121	
1,1,2-Trichloroethane	ug/L	20	19.4	97	80-120	
1,1-Dichloroethane	ug/L	20	19.4	97	80-120	
1,1-Dichloroethene	ug/L	20	17.5	88	80-120	
1,2-Dichloroethane	ug/L	20	19.7	99	81-120	
1,2-Dichloropropane	ug/L	20	19.8	99	80-120	
2-Butanone (MEK)	ug/L	100	112	112	67-122	
2-Hexanone	ug/L	100	119	119	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	114	114	76-120	
Acetone	ug/L	100	119	119	72-120	
Benzene	ug/L	20	20.5	103	80-120	
Bromodichloromethane	ug/L	20	19.5	97	80-120	
Bromoform	ug/L	20	18.8	94	73-138	
Bromomethane	ug/L	20	23.2	116	38-137	
Carbon disulfide	ug/L	20	19.2	96	71-129	
Carbon tetrachloride	ug/L	20	18.7	94	67-146	
Chlorobenzene	ug/L	20	20.5	103	80-120	
Chloroethane	ug/L	20	19.4	97	76-120	
Chloroform	ug/L	20	17.9	89	80-120	
Chloromethane	ug/L	20	21.3	106	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.3	91	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.8	99	80-120	
Dibromochloromethane	ug/L	20	20.6	103	80-126	
Ethylbenzene	ug/L	20	20.9	104	80-120	
Methylene chloride	ug/L	20	19.4	97	80-120	
Styrene	ug/L	20	20.8	104	80-123	
Tetrachloroethene	ug/L	20	19.6	98	80-123	
Toluene	ug/L	20	20.9	105	80-120	
trans-1,2-Dichloroethene	ug/L	20	17.9	89	80-120	
trans-1,3-Dichloropropene	ug/L	20	21.9	110	80-129	
Trichloroethene	ug/L	20	17.9	90	80-120	
Vinyl chloride	ug/L	20	21.1	106	62-125	
Xylene (Total)	ug/L	60	61.7	103	80-120	
1,2-Dichloroethane-d4 (S)	%			105	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			106	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: MSV/73748
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210974011, 60210974012

METHOD BLANK: 1696916 Matrix: Water
Associated Lab Samples: 60210974011, 60210974012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	0.17	01/14/16 09:29	
1,2-Dichloroethane-d4 (S)	%	106	80-120		01/14/16 09:29	
4-Bromofluorobenzene (S)	%	98	80-120		01/14/16 09:29	
Toluene-d8 (S)	%	100	80-120		01/14/16 09:29	

LABORATORY CONTROL SAMPLE: 1696917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	20	18.1	90	80-120	
1,2-Dichloroethane-d4 (S)	%			107	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696926 1696927

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichloroethene	ug/L	0.26J	20	20	19.2	19.3	95	95	70-135	1	10	
1,2-Dichloroethane-d4 (S)	%						105	108	80-120			
4-Bromofluorobenzene (S)	%						105	102	80-120			
Toluene-d8 (S)	%						103	99	80-120			

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WET/59653 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010

METHOD BLANK: 1699425 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/20/16 12:24	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/20/16 12:24	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/20/16 12:24	

LABORATORY CONTROL SAMPLE: 1699426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	490	98	90-110	

SAMPLE DUPLICATE: 1699427

Parameter	Units	60210967014 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	175	179	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	175	179	2	10	

SAMPLE DUPLICATE: 1699428

Parameter	Units	60210969002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	51.2	51.2	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	51.2	51.2	0	10	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WET/59679 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60210974011, 60210974012, 60210974013

METHOD BLANK: 1700120 Matrix: Water
Associated Lab Samples: 60210974011, 60210974012, 60210974013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/21/16 11:16	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/21/16 11:16	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/21/16 11:16	

LABORATORY CONTROL SAMPLE: 1700121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	504	101	90-110	

SAMPLE DUPLICATE: 1700122

Parameter	Units	60211085009 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	51.8	52.1	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	51.8	52.1	0	10	

SAMPLE DUPLICATE: 1700123

Parameter	Units	60211085012 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	126	126	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	126	126	0	10	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WET/59530 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007

METHOD BLANK: 1696147 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/13/16 13:39	

LABORATORY CONTROL SAMPLE: 1696148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.52	105	80-120	

MATRIX SPIKE SAMPLE: 1696149

Parameter	Units	60210924011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.40	81	75-125	

SAMPLE DUPLICATE: 1696150

Parameter	Units	60210924012 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1696151

Parameter	Units	60210967019 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WET/59531 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

METHOD BLANK: 1696164 Matrix: Water
Associated Lab Samples: 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/13/16 14:01	

LABORATORY CONTROL SAMPLE: 1696165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.53	105	80-120	

MATRIX SPIKE SAMPLE: 1696166

Parameter	Units	60210974008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.50	100	75-125	

SAMPLE DUPLICATE: 1696167

Parameter	Units	60210974009 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/37703 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005

METHOD BLANK: 1696186 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/13/16 09:08	
Sulfate	mg/L	ND	1.0	0.25	01/13/16 09:08	

LABORATORY CONTROL SAMPLE: 1696187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	95	90-110	
Sulfate	mg/L	5	4.7	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696188 1696189

Parameter	Units	60210999001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	5	5	10.1	10	93	91	80-120	1	15	
Sulfate	mg/L	32.3	25	25	54.2	54.6	88	89	80-120	1	15	

MATRIX SPIKE SAMPLE: 1696190

Parameter	Units	60211007001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	515	250	748	93	80-120	
Sulfate	mg/L	2840	1000	3710	87	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/37705 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60210974006, 60210974010, 60210974011, 60210974013

METHOD BLANK: 1696310 Matrix: Water
Associated Lab Samples: 60210974006, 60210974010, 60210974011, 60210974013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/13/16 21:22	
Sulfate	mg/L	ND	1.0	0.25	01/13/16 21:22	

LABORATORY CONTROL SAMPLE: 1696311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.2	104	90-110	
Sulfate	mg/L	5	4.7	94	90-110	

MATRIX SPIKE SAMPLE: 1696312

Parameter	Units	60210969001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5.5	5	10.2	94	80-120	
Sulfate	mg/L	6.9	5	11.4	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696313 1696314

Parameter	Units	60211031002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1130	500	500	1600	1590	93	93	80-120	0	15	
Sulfate	mg/L	ND	500	500	507	510	90	91	80-120	1	15	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/37724 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60210974007, 60210974008, 60210974012

METHOD BLANK: 1697101 Matrix: Water
Associated Lab Samples: 60210974007, 60210974008, 60210974012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/14/16 08:55	
Sulfate	mg/L	ND	1.0	0.25	01/14/16 08:55	

LABORATORY CONTROL SAMPLE: 1697102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	
Sulfate	mg/L	5	4.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697103 1697104

Parameter	Units	60211146001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1400	1000	1000	2330	2350	93	95	80-120	1	15	
Sulfate	mg/L	ND	1000	1000	1010	1020	90	91	80-120	1	15	

MATRIX SPIKE SAMPLE: 1697105

Parameter	Units	60210974012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	160	100	252	92	80-120	
Sulfate	mg/L	4.9	5	9.5	92	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/37727 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60210974009

METHOD BLANK: 1697242 Matrix: Water
Associated Lab Samples: 60210974009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/14/16 22:02	
Sulfate	mg/L	ND	1.0	0.25	01/14/16 22:02	

LABORATORY CONTROL SAMPLE: 1697243

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	
Sulfate	mg/L	5	4.8	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697244 1697245

Parameter	Units	60211187002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	266	125	125	382	381	93	92	80-120	0	15	
Sulfate	mg/L	ND	125	125	122	123	94	94	80-120	0	15	

MATRIX SPIKE SAMPLE: 1697246

Parameter	Units	60211178001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1210	1000	2150	95	80-120	
Sulfate	mg/L	2040	1000	2930	90	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/37767 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004

METHOD BLANK: 1698752 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/19/16 08:36	

LABORATORY CONTROL SAMPLE: 1698753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1698754

Parameter	Units	60210944002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.76	2	2.9	107	90-110	

MATRIX SPIKE SAMPLE: 1698755

Parameter	Units	60210970005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	2	2.2	101	90-110	

SAMPLE DUPLICATE: 1698756

Parameter	Units	60210971002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	5.9	5.9	1	18	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/37768 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

METHOD BLANK: 1698757 Matrix: Water
Associated Lab Samples: 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/19/16 09:09	

LABORATORY CONTROL SAMPLE: 1698758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.2	108	90-110	

MATRIX SPIKE SAMPLE: 1698759

Parameter	Units	60211017006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.19	2	2.6	119	90-110	M1

MATRIX SPIKE SAMPLE: 1698760

Parameter	Units	60211019003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1.2	2	3.5	113	90-110	M1

SAMPLE DUPLICATE: 1698761

Parameter	Units	60211021003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	2.4	2.3	2	18	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/37686 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

METHOD BLANK: 1695935 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.014	01/12/16 15:06	
Nitrogen, Nitrite	mg/L	ND	0.10	0.023	01/12/16 15:06	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	0.014	01/12/16 15:06	

LABORATORY CONTROL SAMPLE: 1695936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.7	103	85-115	
Nitrogen, Nitrite	mg/L	.4	0.38	95	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1695937

Parameter	Units	60210964001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.044J	1.6	1.7	106	85-115	
Nitrogen, Nitrite	mg/L	<0.023	.4	0.50	120	90-110	M1
Nitrogen, NO2 plus NO3	mg/L	0.060J	2	2.2	109	90-110	

MATRIX SPIKE SAMPLE: 1695938

Parameter	Units	60210964002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.18	1.6	1.9	105	85-115	
Nitrogen, Nitrite	mg/L	<0.023	.4	0.42	106	90-110	
Nitrogen, NO2 plus NO3	mg/L	0.18	2	2.3	105	90-110	

SAMPLE DUPLICATE: 1695939

Parameter	Units	60210965001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.36	0.36	0	20	
Nitrogen, Nitrite	mg/L	<0.023	ND		20	
Nitrogen, NO2 plus NO3	mg/L	0.36	0.36	0	20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/37791 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

METHOD BLANK: 1699297 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/20/16 13:31	

LABORATORY CONTROL SAMPLE: 1699298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.6	111	80-120	

MATRIX SPIKE SAMPLE: 1699299

Parameter	Units	60210969003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	0.55J	5	6.4	117	80-120	

SAMPLE DUPLICATE: 1699300

Parameter	Units	60210974001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/10263 Analysis Method: SM 4500-P E
QC Batch Method: SM4500-P B Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012

METHOD BLANK: 195829 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.014J	0.030	0.010	01/19/16 15:52	

LABORATORY CONTROL SAMPLE: 195830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.4	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195831 195832

Parameter	Units	60210967013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.19	1.5	1.5	1.3	1.2	70	69	80-120	2	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195833 195834

Parameter	Units	60210974003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.39	1.5	1.5	1.4	1.6	67	78	80-120	11	20	M1

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/10277
QC Batch Method: SM4500-P B
Analysis Method: SM 4500-P E
Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60210974013

METHOD BLANK: 196224 Matrix: Water
Associated Lab Samples: 60210974013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.018J	0.030	0.010	01/20/16 15:51	

LABORATORY CONTROL SAMPLE: 196225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.3	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196226 196227

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.080	1.5	1.5	1.4	1.4	88	85	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196228 196229

Parameter	Units	60211085012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.095	1.5	1.5	1.4	1.4	84	87	80-120	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60210974

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-D	Pace Analytical Services - Dallas
PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73727
- [M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/73728
- [M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: WET/59731
- [1] Ferrous Fe performed in the field

Batch: WET/59734
- [1] Field pH

Batch: WET/59750
- [1] Ferrous Fe perfromed in the field

ANALYTE QUALIFIERS

1e	Total Iron was confirmed.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210974001	MW-191-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974002	MW-192-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974003	MW-185-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974004	MW-190-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974005	MW-50R-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974006	MW-60R-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974007	MW-67R-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974008	MW-66-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974009	MW-193-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974010	MW-62R-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974011	MW-56R-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974012	MW-57R-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974013	MW-71-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974001	MW-191-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974002	MW-192-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974003	MW-185-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974004	MW-190-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974005	MW-50R-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974006	MW-60R-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974007	MW-67R-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974008	MW-66-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974009	MW-193-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974010	MW-62R-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974011	MW-56R-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974012	MW-57R-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974013	MW-71-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974001	MW-191-201601	EPA 5030B/8260	MSV/73727		
60210974002	MW-192-201601	EPA 5030B/8260	MSV/73727		
60210974003	MW-185-201601	EPA 5030B/8260	MSV/73727		
60210974004	MW-190-201601	EPA 5030B/8260	MSV/73727		
60210974005	MW-50R-201601	EPA 5030B/8260	MSV/73727		
60210974006	MW-60R-201601	EPA 5030B/8260	MSV/73728		
60210974007	MW-67R-201601	EPA 5030B/8260	MSV/73728		
60210974008	MW-66-201601	EPA 5030B/8260	MSV/73728		
60210974009	MW-193-201601	EPA 5030B/8260	MSV/73728		
60210974010	MW-62R-201601	EPA 5030B/8260	MSV/73728		
60210974011	MW-56R-201601	EPA 5030B/8260	MSV/73728		
60210974011	MW-56R-201601	EPA 5030B/8260	MSV/73748		
60210974012	MW-57R-201601	EPA 5030B/8260	MSV/73728		
60210974012	MW-57R-201601	EPA 5030B/8260	MSV/73748		
60210974013	MW-71-201601	EPA 5030B/8260	MSV/73728		
60210974014	EB-01-201601	EPA 5030B/8260	MSV/73728		
60210974015	TB-03-201601	EPA 5030B/8260	MSV/73728		
60210974016	TB-04-201601	EPA 5030B/8260	MSV/73728		
60210974017	TB-05-201601	EPA 5030B/8260	MSV/73728		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210974018	**TB-06-201601**	EPA 5030B/8260	MSV/73728		
60210974019	**EB-02-201601**	EPA 5030B/8260	MSV/73728		
60210974001	**MW-191-201601**	SM 2320B	WET/59653		
60210974002	**MW-192-201601**	SM 2320B	WET/59653		
60210974003	**MW-185-201601**	SM 2320B	WET/59653		
60210974004	**MW-190-201601**	SM 2320B	WET/59653		
60210974005	**MW-50R-201601**	SM 2320B	WET/59653		
60210974006	**MW-60R-201601**	SM 2320B	WET/59653		
60210974007	**MW-67R-201601**	SM 2320B	WET/59653		
60210974008	**MW-66-201601**	SM 2320B	WET/59653		
60210974009	**MW-193-201601**	SM 2320B	WET/59653		
60210974010	**MW-62R-201601**	SM 2320B	WET/59653		
60210974011	**MW-56R-201601**	SM 2320B	WET/59679		
60210974012	**MW-57R-201601**	SM 2320B	WET/59679		
60210974013	**MW-71-201601**	SM 2320B	WET/59679		
60210974001	**MW-191-201601**	SM 3500-Fe B#4	WET/59731		
60210974002	**MW-192-201601**	SM 3500-Fe B#4	WET/59731		
60210974003	**MW-185-201601**	SM 3500-Fe B#4	WET/59731		
60210974004	**MW-190-201601**	SM 3500-Fe B#4	WET/59731		
60210974005	**MW-50R-201601**	SM 3500-Fe B#4	WET/59731		
60210974006	**MW-60R-201601**	SM 3500-Fe B#4	WET/59731		
60210974007	**MW-67R-201601**	SM 3500-Fe B#4	WET/59750		
60210974008	**MW-66-201601**	SM 3500-Fe B#4	WET/59731		
60210974009	**MW-193-201601**	SM 3500-Fe B#4	WET/59731		
60210974010	**MW-62R-201601**	SM 3500-Fe B#4	WET/59731		
60210974011	**MW-56R-201601**	SM 3500-Fe B#4	WET/59731		
60210974012	**MW-57R-201601**	SM 3500-Fe B#4	WET/59731		
60210974013	**MW-71-201601**	SM 3500-Fe B#4	WET/59731		
60210974001	**MW-191-201601**	SM 4500-H+B	WET/59734		
60210974002	**MW-192-201601**	SM 4500-H+B	WET/59734		
60210974003	**MW-185-201601**	SM 4500-H+B	WET/59734		
60210974004	**MW-190-201601**	SM 4500-H+B	WET/59734		
60210974005	**MW-50R-201601**	SM 4500-H+B	WET/59734		
60210974006	**MW-60R-201601**	SM 4500-H+B	WET/59734		
60210974007	**MW-67R-201601**	SM 4500-H+B	WET/59734		
60210974008	**MW-66-201601**	SM 4500-H+B	WET/59734		
60210974009	**MW-193-201601**	SM 4500-H+B	WET/59734		
60210974010	**MW-62R-201601**	SM 4500-H+B	WET/59734		
60210974011	**MW-56R-201601**	SM 4500-H+B	WET/59734		
60210974012	**MW-57R-201601**	SM 4500-H+B	WET/59734		
60210974013	**MW-71-201601**	SM 4500-H+B	WET/59734		
60210974001	**MW-191-201601**	SM 4500-S-2 D	WET/59530		
60210974002	**MW-192-201601**	SM 4500-S-2 D	WET/59530		
60210974003	**MW-185-201601**	SM 4500-S-2 D	WET/59530		
60210974004	**MW-190-201601**	SM 4500-S-2 D	WET/59530		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210974005	MW-50R-201601	SM 4500-S-2 D	WET/59530		
60210974006	MW-60R-201601	SM 4500-S-2 D	WET/59530		
60210974007	MW-67R-201601	SM 4500-S-2 D	WET/59530		
60210974008	MW-66-201601	SM 4500-S-2 D	WET/59531		
60210974009	MW-193-201601	SM 4500-S-2 D	WET/59531		
60210974010	MW-62R-201601	SM 4500-S-2 D	WET/59531		
60210974011	MW-56R-201601	SM 4500-S-2 D	WET/59531		
60210974012	MW-57R-201601	SM 4500-S-2 D	WET/59531		
60210974013	MW-71-201601	SM 4500-S-2 D	WET/59531		
60210974001	MW-191-201601	EPA 300.0	WETA/37703		
60210974002	MW-192-201601	EPA 300.0	WETA/37703		
60210974003	MW-185-201601	EPA 300.0	WETA/37703		
60210974004	MW-190-201601	EPA 300.0	WETA/37703		
60210974005	MW-50R-201601	EPA 300.0	WETA/37703		
60210974006	MW-60R-201601	EPA 300.0	WETA/37705		
60210974007	MW-67R-201601	EPA 300.0	WETA/37724		
60210974008	MW-66-201601	EPA 300.0	WETA/37724		
60210974009	MW-193-201601	EPA 300.0	WETA/37727		
60210974010	MW-62R-201601	EPA 300.0	WETA/37705		
60210974011	MW-56R-201601	EPA 300.0	WETA/37705		
60210974012	MW-57R-201601	EPA 300.0	WETA/37724		
60210974013	MW-71-201601	EPA 300.0	WETA/37705		
60210974001	MW-191-201601	EPA 350.1	WETA/37767		
60210974002	MW-192-201601	EPA 350.1	WETA/37767		
60210974003	MW-185-201601	EPA 350.1	WETA/37767		
60210974004	MW-190-201601	EPA 350.1	WETA/37767		
60210974005	MW-50R-201601	EPA 350.1	WETA/37768		
60210974006	MW-60R-201601	EPA 350.1	WETA/37768		
60210974007	MW-67R-201601	EPA 350.1	WETA/37768		
60210974008	MW-66-201601	EPA 350.1	WETA/37768		
60210974009	MW-193-201601	EPA 350.1	WETA/37768		
60210974010	MW-62R-201601	EPA 350.1	WETA/37768		
60210974011	MW-56R-201601	EPA 350.1	WETA/37768		
60210974012	MW-57R-201601	EPA 350.1	WETA/37768		
60210974013	MW-71-201601	EPA 350.1	WETA/37768		
60210974001	MW-191-201601	EPA 353.2	WETA/37686		
60210974002	MW-192-201601	EPA 353.2	WETA/37686		
60210974003	MW-185-201601	EPA 353.2	WETA/37686		
60210974004	MW-190-201601	EPA 353.2	WETA/37686		
60210974005	MW-50R-201601	EPA 353.2	WETA/37686		
60210974006	MW-60R-201601	EPA 353.2	WETA/37686		
60210974007	MW-67R-201601	EPA 353.2	WETA/37686		
60210974008	MW-66-201601	EPA 353.2	WETA/37686		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210974009	MW-193-201601	EPA 353.2	WETA/37686		
60210974010	MW-62R-201601	EPA 353.2	WETA/37686		
60210974011	MW-56R-201601	EPA 353.2	WETA/37686		
60210974012	MW-57R-201601	EPA 353.2	WETA/37686		
60210974013	MW-71-201601	EPA 353.2	WETA/37686		
60210974001	MW-191-201601	SM 4500-CO2 D	WETA/37846		
60210974002	MW-192-201601	SM 4500-CO2 D	WETA/37846		
60210974003	MW-185-201601	SM 4500-CO2 D	WETA/37846		
60210974004	MW-190-201601	SM 4500-CO2 D	WETA/37846		
60210974005	MW-50R-201601	SM 4500-CO2 D	WETA/37846		
60210974006	MW-60R-201601	SM 4500-CO2 D	WETA/37846		
60210974007	MW-67R-201601	SM 4500-CO2 D	WETA/37846		
60210974008	MW-66-201601	SM 4500-CO2 D	WETA/37846		
60210974009	MW-193-201601	SM 4500-CO2 D	WETA/37846		
60210974010	MW-62R-201601	SM 4500-CO2 D	WETA/37846		
60210974011	MW-56R-201601	SM 4500-CO2 D	WETA/37846		
60210974012	MW-57R-201601	SM 4500-CO2 D	WETA/37846		
60210974013	MW-71-201601	SM 4500-CO2 D	WETA/37846		
60210974001	MW-191-201601	SM 5310C	WETA/37791		
60210974002	MW-192-201601	SM 5310C	WETA/37791		
60210974003	MW-185-201601	SM 5310C	WETA/37791		
60210974004	MW-190-201601	SM 5310C	WETA/37791		
60210974005	MW-50R-201601	SM 5310C	WETA/37791		
60210974006	MW-60R-201601	SM 5310C	WETA/37791		
60210974007	MW-67R-201601	SM 5310C	WETA/37791		
60210974008	MW-66-201601	SM 5310C	WETA/37791		
60210974009	MW-193-201601	SM 5310C	WETA/37791		
60210974010	MW-62R-201601	SM 5310C	WETA/37791		
60210974011	MW-56R-201601	SM 5310C	WETA/37791		
60210974012	MW-57R-201601	SM 5310C	WETA/37791		
60210974013	MW-71-201601	SM 5310C	WETA/37791		
60210974001	MW-191-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974002	MW-192-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974003	MW-185-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974004	MW-190-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974005	MW-50R-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974006	MW-60R-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974007	MW-67R-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974008	MW-66-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974009	MW-193-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974010	MW-62R-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974011	MW-56R-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974012	MW-57R-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974013	MW-71-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287

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Sample Condition Upon Receipt

WO# : 60210974

60210974

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☑ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 2-3/4-9/5.14-3

Temperature should be above freezing to 6°C

Date and initials of person examining contents: PW 1/12/16

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 holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. NO2 NO3 Fe2+ pH
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8. samples receive with TB
Correct containers used:	☑Yes ☐No ☐N/A	~~1=TB1~~
Pace containers used:	☑Yes ☐No ☐N/A	~~II=TB2~~ 9. PW 1/12/16
Containers intact:	☑Yes ☐No ☐N/A	10. III=TB3
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11. IIII=TB4
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12. 5=TB5
Sample labels match COC:	☑Yes ☐No ☐N/A	6=TB6
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): Cover		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☑N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CBL Date: 01/12/16

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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 2

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	10 day TAT

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	34375000

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	8260 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity + field pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-191-20160l 3D69H 3D69H	WT	G	1/8/16	1845	1/11/16	1446		11								X		X	X	X	X	X	X	X	X	X	X	N	60210974
2	MW-192-20160l						1242		11								X		X	X	X	X	X	X	X	X	X	X	N	002
3	MW-185-20160l						0956		11								X		X	X	X	X	X	X	X	X	X	X	N	003
4	MW-190-20160l						1700		11								X		X	X	X	X	X	X	X	X	X	X	N	004
5	MW-50R-20160l						0955		11								X		X	X	X	X	X	X	X	X	X	X	N	005
6	MW-60R-20160l						1215		11								X		X	X	X	X	X	X	X	X	X	X	N	006
7	MW-67R-20160l						1435		11								X		X	X	X	X	X	X	X	X	X	X	N	007
8	MW-66R-20160l LW						1625		11								X		X	X	X	X	X	X	X	X	X	X	N	008
9	~~MW-63R-20160l LW~~								11								X		X	X	X	X	X	X	X	X	X	X	N	—
10	MW-193-20160l						1509		11								X		X	X	X	X	X	X	X	X	X	X	N	009
11	MW-62R-20160l						1135		11								X		X	X	X	X	X	X	X	X	X	X	N	010
12	MW-56R-20160l						1330		11								X		X	X	X	X	X	X	X	X	X	X	N	011

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Lucy Cross / Ramboll Environ	1/11/16	1830	[signature]	1/12/16	0740

SAMPLE CONDITIONS	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2-3		X	Y	Y
4-9		X	Y	Y
5-1		X	Y	Y
4-7		Y	Y	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lucy Cross

SIGNATURE of SAMPLER: Lucy Cross

DATE Signed (MM/DD/YY): 1/11/16

*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-Feb-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.

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	10 day TAT

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	34375000

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity + field pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-57R-20160[illegible] 3D/9H	WT	G	1/11/16	1AG35[illegible]	1/11/16	1500		11	X	X	X	X	3D/9H		X		X	X	X	X	X	X	X	X	X	X	X	N	18[illegible] 18[illegible] 18[illegible] 002
2	EB-01-201601 3D/9H	WT	G			1/11/16	1713		3				X					X													004
3	MW-71-201601 3D/9H 3D/9H	WT	G	↓	↓	1/11/16	1615		11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	↓ ↓ ↓ 003
4	TB-03-201601 2D/9H	WT	G			1/11/16			2				X					X													005
5	TB-04-201601	WT	G			1/11/16			2				X					X													006
6	TB-05-201601	WT	G			1/11/16			2				X					X													007
7	TB-06-201601	WT	G			1/11/16			2				X					X													008
8	EB-02-201601 ~~3D/9H~~ 3D/9H	WT	G	↓	↓	1/11/16	1750		3				X					X													009
9				01/12/16																											
10																															
11									1																						
12																															

Requested Analysis Filtered (Y/N)

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)
	Lucy Cross/Ramboll ENV 1126	1/11/16	1830	[signature] 01/12/16	1/12/16	0750	23	Y	Y	Y	
							49	X	Y	Y	
							5.1	Y	Y	Y	
							4.3	X	X	Y	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*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.

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 60210974 **Workorder Name:** FORT SMITH, AR **Owner Received Date:** 1/12/2016 **Results Requested By:** 1/22/2016

Report To	Subcontract To
Colleen Clyne Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Dallas 400 West Bethany Drive Suite 190 Allen, TX 75013 Phone (972)727-1123

						Preserved Containers						Requested Analysis											
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	BP3S	DG9U					8015 Chloroethanol	Total Phosphate										LAB USE ONLY
1	MW-191-201601	PS	1/11/2016 14:46	60210974001	Water	1	3					X	X										001
2	MW-192-201601	PS	1/11/2016 12:42	60210974002	Water	1	3					X	X										002
3	MW-185-201601	PS	1/11/2016 09:56	60210974003	Water	1	3					X	X										003
4	MW-190-201601	PS	1/11/2016 17:00	60210974004	Water	1	3					X	X										004
5	MW-50R-201601	PS	1/11/2016 09:55	60210974005	Water	1	3					X	X										005
6	MW-60R-201601	PS	1/11/2016 12:15	60210974006	Water	1	3					X	X										006
7	MW-67R-201601	PS	1/11/2016 14:35	60210974007	Water	1	3					X	X										007
8	MW-66R-201601	PS	1/11/2016 16:25	60210974008	Water	1	3					X	X										008
9	MW-193-201601	PS	1/11/2016 15:08	60210974009	Water	1	3					X	X										009
10	MW-62R-201601	PS	1/11/2016 11:35	60210974010	Water	1	3					X	X										010
11	MW-56R-201601	PS	1/11/2016 13:30	60210974011	Water	1	3					X	X										011
12	MW-57R-201601	PS	1/11/2016 15:00	60210974012	Water	1	3					X	X										012
13	MW-71-201601	PS	1/11/2016 16:15	60210974013	Water	1	3					X	X										013

WO#: 7537283

7537283

					Comments
Transfers	Released By	Date/Time	Received By	Date/Time	
1		1/12/16 1700		1/13/16 09:05	
2					
3					

Cooler Temperature on Receipt 0.1 °C IR-02 **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Pace Analytical

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐San Angelo

Client Name: Pace - Kansas Project Work order: 7537283

Courier: FedEX ☑ UPS ☐ USPS ☐ Client ☐ Courier ☐ LSO ☐ PACE ☐ Other:

Tracking#: 6508 8163 6390

Custody Seal on Cooler/Box: Yes ☑ No ☐ Seals Intact: Yes ☑ No ☐ NA ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☑ Other ☐

Thermometer Used: ~~IR-01 IR-03~~ Type of Ice: Wet ☑ Blue ☐ None ☐ Sample Received on ice, cooling process has begun ☑

Cooler Temp: 0.1 (Temp should be above freezing to 6°C)

Chain of Custody Present	Yes ☑ No ☐ NA ☐	1
Chain of Custody filled out	Yes ☑ No ☐ NA ☐	2
Chain of Custody relinquished	Yes ☑ No ☐ NA ☐	3
Sampler name & signature on COC	Yes ☐ No ☑ NA ☐	4
Sample received within HT	Yes ☑ No ☐ NA ☐	5
Short HT analyses (<72 hrs)	Yes ☐ No ☑ NA ☐	6
Rush TAT requested	Yes ☐ No ☑ NA ☐	7
Sufficient Volume received	Yes ☑ No ☐ NA ☐	8
Correct Container used Pace Container used	Yes ☑ No ☐ NA ☐ Yes ☑ No ☐ NA ☐	9
Container Intact	Yes ☑ No ☐ NA ☐	10
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑	11
Filtered volume received for Dissolved tests	Yes ☐ No ☐ NA ☑	12
Sample labels match COC Include date/time/ID/analyses Matrix: WATER	Yes ☑ No ☐ NA ☐	13
All containers needing preservation have been checked	Yes ☑ No ☐ NA ☐	14a. Lot# of pH strip: 641200 3 pH checked Yes ☑ No ☐ pH<2 ☑ pH>9 ☐ pH>12 ☐ Lot# of Iodine strip: Lot# of Lead Acetate strip:
Do containers require preservation at the lab	Yes ☐ No ☑ NA ☐	14b. Preservation: / Lot#:
All containers needing preservation are found to be in Compliance with EPA recommendation Exception: VOA, coliform, O&G	Yes ☑ No ☐ Yes ☑ No ☐	14c.
Are soil samples (volatiles) received in Bulk ☐ Terracore ☐ EnCore ☐ NA ☑		15.
Trip Blank present Trip Blank Custody Seals Intact Pace Trip Blank Lot# (if purchased):	Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑	16.
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☑	17.
Project sampled in USDA Regulated Area:	Yes ☐ No ☐ NA ☑	18. List State

Client Notification/Resolution/Comments:

Person Contacted: Date:

Comments/Resolution:

Person Examining Contents: Date: 1/13/16

Pace Analytical Services - Dallas

Sample Container Count-

COC PAGE 1 of 2

COC ID# _____

Pace Project # 7537283

Sample Line Item	AG1S	AG1U	AG3S	BG1S	BP1U	BP2N	BP2S	BP2U	BP20	SP5T	VG9H	DG9M	VG9U	VG9W	WGFU	WGKU	BP3C	GN	WG2U	BP3S				
1							1						3											
2							1						3											
3							1						3											
4							1						3											
5							1						3											
6							1						3											
7							1						3											
8							1						3											
9							1						3											
10							1						3											
11							1						3											
12							1						3											

Container Codes

AF	Air Filter	BP1A	1 liter NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic	R	terra core kit
AG1H	1L HCL Amber Glass	BP1N	1 liter HNO3 plastic	BP3U	250mL unpreserved plastic	SP5T	120mL Coliform Na Thiosulfate
AG1S	1L H2SO4 Amber Glass	BP1S	1 liter H2SO4 plastic	BP3Z	250mL NaOH, Zn Ac plastic	SP5U	120mL Coliform unpreserved
AG1T	1L Sodium Thiosulfate Amber	BP1U	1 liter unpreserved plastic	C	Air Cassettes	VG9H	40mL HCL clear vial
AG1U	1L Unpreserved Amber Glass	BP1Z	1 liter NaOH, Zn, Ac	DG9B	40mL Na Bisulfate amber vial	VG9T	40mL Na Thio. clear vial
AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plasti	DG9H	40mL HCL amber voa vial	VG9U	40mL unpreserved clear vial
AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	DG9M	40mL MeOH clear vial	VG9W	40mL Unpreserved Tared
AG2U	500mL unpreserved amber glas	BP2O	500mL NaOH plastic	DG9P	40mL TSP amber vial	VSG	Headspace septa vial & HCL
AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	DG9S	40mL H2SO4 amber vial	WGFU	4oz clear soil jar
AG3U	250mL unpreserved amber glas	BP2U	500mL unpreserved plastic	DG9T	40mL Na Thio amber vial	WGFX	4oz wide jar w/hexane wipe
BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac	DG9U	40mL unpreserved amber vial	WGKU	8oz wide jar upreserved
BG1S	1 liter H2SO4 clear glass	BP3A	250mL NaOh, Asc Acid plastic	GN	General unpreserved	WG2U	2oz clear jar
BG1T	1 liter Na Thiosulfate clear gla	BP3C	250mL NaOH plastic	I	Wipe/Swab	ZPLC	Ziploc Bag
BG1U	1 liter unpreserved glass	BP3N	250mL HNO3 plastic	JGFU	4oz unpreserved amber wide	Other	Other

Pace Analytical Services - Dallas

Sample Container Count-

COC PAGE 2 of 2

COC ID# _____

Pace Project # 75372S3

Sample Line Item	AG1S	AG1U	AG3S	BG1S	BP1U	BP2N	BP2S	BP2U	BP20	SP5T	VG9H	DG9M	VG9U	VG9W	WGFU	WGKU	BP3C	GN	WG2U	BP3S				
1							1						3											
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Container Codes

AF	Air Filter	BP1A	1 liter NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic	R	terra core kit
AG1H	1L HCL Amber Glass	BP1N	1 liter HNO3 plastic	BP3U	250mL unpreserved plastic	SP5T	120mL Coliform Na Thiosulfate
AG1S	1L H2SO4 Amber Glass	BP1S	1 liter H2SO4 plastic	BP3Z	250mL NaOH, Zn Ac plastic	SP5U	120mL Coliform unpreserved
AG1T	1L Sodium Thiosulfate Amber	BP1U	1 liter unpreserved plastic	C	Air Cassettes	VG9H	40mL HCL clear vial
AG1U	1L Unpreserved Amber Glass	BP1Z	1 liter NaOH, Zn, Ac	DG9B	40mL Na Bisulfate amber vial	VG9T	40mL Na Thio. clear vial
AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plasti	DG9H	40mL HCL amber voa vial	VG9U	40mL unpreserved clear vial
AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	DG9M	40mL MeOH clear vial	VG9W	40mL Unpreserved Tared
AG2U	500mL unpreserved amber glas	BP2O	500mL NaOH plastic	DG9P	40mL TSP amber vial	VSG	Headspace septa vial & HCL
AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	DG9S	40mL H2SO4 amber vial	WGFU	4oz clear soil jar
AG3U	250mL unpreserved amber glas	BP2U	500mL unpreserved plastic	DG9T	40mL Na Thio amber vial	WGFX	4oz wide jar w/hexane wipe
BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac	DG9U	40mL unpreserved amber vial	WGKU	8oz wide jar upreserved
BG1S	1 liter H2SO4 clear glass	BP3A	250mL NaOh, Asc Acid plastic	GN	General unpreserved	WG2U	2oz clear jar
BG1T	1 liter Na Thiosulfate clear gla	BP3C	250mL NaOH plastic	I	Wipe/Swab	ZPLC	Ziploc Bag
BG1U	1 liter unpreserved glass	BP3N	250mL HNO3 plastic	JGFU	4oz unpreserved amber wide	Other	Other

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 22, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60210978

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60210978

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60210978

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60210978001	**MW-181-201601**	Water	01/11/16 15:45	01/12/16 07:50
60210978002	**MW-177-201601**	Water	01/11/16 14:50	01/12/16 07:50
60210978003	**VP-12-201601**	Water	01/11/16 16:25	01/12/16 07:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210978

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60210978001	**MW-181-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210978002	**MW-177-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210978003	**VP-12-201601**	EPA 5030B/8260	PGH	38	PASI-K

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(913)599-5665

PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210978

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 22, 2016

General Information:
3 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73728

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210978

Sample: MW-181-201601 **Lab ID: 60210978001** Collected: 01/11/16 15:45 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 17:10	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 17:10	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 17:10	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 17:10	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 17:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 17:10	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 17:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 17:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 17:10	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 17:10	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 17:10	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 17:10	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 17:10	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 17:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 17:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 17:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 17:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 17:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 17:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 17:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 17:10	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 17:10	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 17:10	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 17:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 17:10	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 17:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 17:10	79-34-5	
Tetrachloroethene	**0.28J**	ug/L	1.0	0.10	1		01/13/16 17:10	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 17:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 17:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 17:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 17:10	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 17:10	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 17:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 17:10	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 17:10	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		01/13/16 17:10	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 17:10		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210978

Sample: MW-177-201601 **Lab ID: 60210978002** Collected: 01/11/16 14:50 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 17:24	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 17:24	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 17:24	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 17:24	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 17:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 17:24	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 17:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 17:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 17:24	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 17:24	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 17:24	67-66-3	
Chloromethane	**0.20J**	ug/L	1.0	0.080	1		01/13/16 17:24	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 17:24	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 17:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 17:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 17:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 17:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 17:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 17:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 17:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 17:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 17:24	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 17:24	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 17:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 17:24	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 17:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 17:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 17:24	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 17:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 17:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 17:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 17:24	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 17:24	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 17:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/13/16 17:24	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 17:24	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/13/16 17:24	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 17:24		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210978

Sample: VP-12-201601 **Lab ID: 60210978003** Collected: 01/11/16 16:25 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 17:39	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 17:39	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 17:39	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 17:39	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 17:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 17:39	78-93-3	
Carbon disulfide	**0.15J**	ug/L	5.0	0.12	1		01/13/16 17:39	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 17:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 17:39	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 17:39	75-00-3	
Chloroform	**0.19J**	ug/L	1.0	0.14	1		01/13/16 17:39	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 17:39	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 17:39	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 17:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 17:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 17:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 17:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 17:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 17:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 17:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 17:39	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 17:39	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 17:39	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 17:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 17:39	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 17:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 17:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 17:39	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 17:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 17:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 17:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 17:39	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 17:39	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 17:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/13/16 17:39	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 17:39	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/13/16 17:39	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 17:39		

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210978

QC Batch: MSV/73728 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210978001, 60210978002, 60210978003

METHOD BLANK: 1696364 Matrix: Water
Associated Lab Samples: 60210978001, 60210978002, 60210978003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 15:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 15:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 15:29	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 15:29	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 15:29	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 15:29	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 15:29	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 15:29	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 15:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 15:29	
Acetone	ug/L	ND	10.0	1.9	01/13/16 15:29	
Benzene	ug/L	ND	1.0	0.060	01/13/16 15:29	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 15:29	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 15:29	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 15:29	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 15:29	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 15:29	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 15:29	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 15:29	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 15:29	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 15:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 15:29	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 15:29	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 15:29	
Ethylbenzene	ug/L	ND	1.0	0.18	01/13/16 15:29	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 15:29	
Styrene	ug/L	ND	1.0	0.12	01/13/16 15:29	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 15:29	
Toluene	ug/L	ND	1.0	0.17	01/13/16 15:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 15:29	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 15:29	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 15:29	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 15:29	
Xylene (Total)	ug/L	ND	3.0	0.42	01/13/16 15:29	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 15:29	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 15:29	
Toluene-d8 (S)	%	103	80-120		01/13/16 15:29	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210978

LABORATORY CONTROL SAMPLE: 1696365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.8	94	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	21.1	106	73-121	
1,1,2-Trichloroethane	ug/L	20	19.4	97	80-120	
1,1-Dichloroethane	ug/L	20	19.4	97	80-120	
1,1-Dichloroethene	ug/L	20	17.5	88	80-120	
1,2-Dichloroethane	ug/L	20	19.7	99	81-120	
1,2-Dichloropropane	ug/L	20	19.8	99	80-120	
2-Butanone (MEK)	ug/L	100	112	112	67-122	
2-Hexanone	ug/L	100	119	119	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	114	114	76-120	
Acetone	ug/L	100	119	119	72-120	
Benzene	ug/L	20	20.5	103	80-120	
Bromodichloromethane	ug/L	20	19.5	97	80-120	
Bromoform	ug/L	20	18.8	94	73-138	
Bromomethane	ug/L	20	23.2	116	38-137	
Carbon disulfide	ug/L	20	19.2	96	71-129	
Carbon tetrachloride	ug/L	20	18.7	94	67-146	
Chlorobenzene	ug/L	20	20.5	103	80-120	
Chloroethane	ug/L	20	19.4	97	76-120	
Chloroform	ug/L	20	17.9	89	80-120	
Chloromethane	ug/L	20	21.3	106	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.3	91	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.8	99	80-120	
Dibromochloromethane	ug/L	20	20.6	103	80-126	
Ethylbenzene	ug/L	20	20.9	104	80-120	
Methylene chloride	ug/L	20	19.4	97	80-120	
Styrene	ug/L	20	20.8	104	80-123	
Tetrachloroethene	ug/L	20	19.6	98	80-123	
Toluene	ug/L	20	20.9	105	80-120	
trans-1,2-Dichloroethene	ug/L	20	17.9	89	80-120	
trans-1,3-Dichloropropene	ug/L	20	21.9	110	80-129	
Trichloroethene	ug/L	20	17.9	90	80-120	
Vinyl chloride	ug/L	20	21.1	106	62-125	
Xylene (Total)	ug/L	60	61.7	103	80-120	
1,2-Dichloroethane-d4 (S)	%			105	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			106	80-120	

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QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60210978

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73728

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210978

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210978001	**MW-181-201601**	EPA 5030B/8260	MSV/73728		
60210978002	**MW-177-201601**	EPA 5030B/8260	MSV/73728		
60210978003	**VP-12-201601**	EPA 5030B/8260	MSV/73728		

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Sample Condition Upon Receipt

WO# : 60210978

60210978

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☑ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☑ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 4.3

Temperature should be above freezing to 6°C

Date and initials of person examining contents: PVI 12/16

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 holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<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	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☐Yes ☑No ☐N/A	
Pace Trip Blank lot # (if purchased): _____		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☑N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 01/13/2016

CHAIN-OF-CUSTODY / Analytical Request Document

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

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Environ	Report To:	Wendy Stonestreet	Attention:	Tamara Gleason
Address:	7500 College Blvd., Ste. 925	Copy To:	Tamara Gleason	Company Name:	
	Overland Park, KS 66210		tgleason@environcorp.com	Address:	
Email To:	wstonestreet@environcorp.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	913-553-5926 Fax:	Project Name:	Fort Smith, AR	Pace Project Manager:	Colleen Clyne (913) 563-1406
Requested Due Date/TAT:	Standard 10 day	Project Number:		Pace Profile #:	7444 water, 7709 soil

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER ADEQ

Site Location STATE: AR

Requested Analysis Filtered (Y/N)

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-191-201601	WT	G	1/11/16	1545				3				X					X	X	N	30694 M
2	MW-177-201601	WT	G	1/11/16	1450				3				X					X	X	N	10694 W2
3	VP-12-201601	WT	G	1/11/16	1625				1				X					X	X	N	10694 W3
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

60210978

m 1/12/16

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)
	Wendy Stonestreet /WS	1/11/16	1830		1/12/16	0750	4.3	X	X	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM/DD/YY): 1/11/2016

*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.

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

January 22, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60210979

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60210979

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60210979

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60210979001	**MW-175-201610**	Water	01/11/16 10:35	01/12/16 07:50
60210979002	**VP-08-201610**	Water	01/11/16 11:00	01/12/16 07:50
60210979003	**VP-07-201610**	Water	01/11/16 11:20	01/12/16 07:50

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210979

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60210979001	**MW-175-201610**	EPA 5030B/8260	PGH	38	PASI-K
60210979002	**VP-08-201610**	EPA 5030B/8260	PGH	38	PASI-K
60210979003	**VP-07-201610**	EPA 5030B/8260	PGH	38	PASI-K

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210979

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 22, 2016

General Information:
3 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73728

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73734

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210979

Sample: MW-175-201610 **Lab ID: 60210979001** Collected: 01/11/16 10:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**23.4**	ug/L	10.0	1.9	1		01/13/16 17:54	67-64-1	
Benzene	**0.16J**	ug/L	1.0	0.060	1		01/13/16 17:54	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 17:54	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 17:54	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 17:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 17:54	78-93-3	
Carbon disulfide	**0.15J**	ug/L	5.0	0.12	1		01/13/16 17:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 17:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 17:54	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 17:54	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 17:54	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 17:54	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 17:54	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 17:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 17:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 17:54	75-35-4	
cis-1,2-Dichloroethene	**1.1**	ug/L	1.0	0.080	1		01/13/16 17:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 17:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 17:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 17:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 17:54	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 17:54	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 17:54	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 17:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 17:54	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 17:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 17:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 17:54	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 17:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 17:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 17:54	79-00-5	
Trichloroethene	**52.6**	ug/L	1.0	0.17	1		01/13/16 17:54	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 17:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 17:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/13/16 17:54	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/13/16 17:54	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		01/13/16 17:54	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 17:54		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210979

Sample: VP-08-201610 **Lab ID: 60210979002** Collected: 01/11/16 11:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**198**	ug/L	10.0	1.9	1		01/13/16 23:57	67-64-1	
Benzene	**0.68J**	ug/L	1.0	0.060	1		01/13/16 23:57	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 23:57	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 23:57	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 23:57	74-83-9	
2-Butanone (MEK)	**32.8**	ug/L	10.0	0.59	1		01/13/16 23:57	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 23:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 23:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 23:57	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 23:57	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 23:57	67-66-3	
Chloromethane	**0.33J**	ug/L	1.0	0.080	1		01/13/16 23:57	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 23:57	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 23:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 23:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 23:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 23:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 23:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 23:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 23:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 23:57	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 23:57	100-41-4	
2-Hexanone	**8.6J**	ug/L	10.0	1.2	1		01/13/16 23:57	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 23:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.79J**	ug/L	10.0	0.42	1		01/13/16 23:57	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 23:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 23:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 23:57	127-18-4	
Toluene	**0.42J**	ug/L	1.0	0.17	1		01/13/16 23:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 23:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 23:57	79-00-5	
Trichloroethene	**3.2**	ug/L	1.0	0.17	1		01/13/16 23:57	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 23:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 23:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/13/16 23:57	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 23:57	17060-07-0	
Toluene-d8 (S)	104	%	80-120		1		01/13/16 23:57	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 23:57		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210979

Sample: VP-07-201610 **Lab ID: 60210979003** Collected: 01/11/16 11:20 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**29.4**	ug/L	10.0	1.9	1		01/14/16 00:11	67-64-1	
Benzene	**0.17J**	ug/L	1.0	0.060	1		01/14/16 00:11	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 00:11	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 00:11	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 00:11	74-83-9	
2-Butanone (MEK)	**5.0J**	ug/L	10.0	0.59	1		01/14/16 00:11	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 00:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 00:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 00:11	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 00:11	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 00:11	67-66-3	
Chloromethane	**0.21J**	ug/L	1.0	0.080	1		01/14/16 00:11	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 00:11	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 00:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 00:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 00:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 00:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 00:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 00:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 00:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 00:11	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 00:11	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 00:11	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 00:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.83J**	ug/L	10.0	0.42	1		01/14/16 00:11	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 00:11	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 00:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 00:11	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 00:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 00:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 00:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 00:11	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 00:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 00:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/14/16 00:11	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/14/16 00:11	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/14/16 00:11	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 00:11		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210979

QC Batch: MSV/73728
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210979001

METHOD BLANK: 1696364
Matrix: Water
Associated Lab Samples: 60210979001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 15:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 15:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 15:29	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 15:29	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 15:29	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 15:29	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 15:29	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 15:29	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 15:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 15:29	
Acetone	ug/L	ND	10.0	1.9	01/13/16 15:29	
Benzene	ug/L	ND	1.0	0.060	01/13/16 15:29	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 15:29	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 15:29	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 15:29	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 15:29	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 15:29	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 15:29	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 15:29	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 15:29	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 15:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 15:29	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 15:29	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 15:29	
Ethylbenzene	ug/L	ND	1.0	0.18	01/13/16 15:29	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 15:29	
Styrene	ug/L	ND	1.0	0.12	01/13/16 15:29	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 15:29	
Toluene	ug/L	ND	1.0	0.17	01/13/16 15:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 15:29	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 15:29	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 15:29	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 15:29	
Xylene (Total)	ug/L	ND	3.0	0.42	01/13/16 15:29	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 15:29	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 15:29	
Toluene-d8 (S)	%	103	80-120		01/13/16 15:29	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210979

LABORATORY CONTROL SAMPLE: 1696365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.8	94	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	21.1	106	73-121	
1,1,2-Trichloroethane	ug/L	20	19.4	97	80-120	
1,1-Dichloroethane	ug/L	20	19.4	97	80-120	
1,1-Dichloroethene	ug/L	20	17.5	88	80-120	
1,2-Dichloroethane	ug/L	20	19.7	99	81-120	
1,2-Dichloropropane	ug/L	20	19.8	99	80-120	
2-Butanone (MEK)	ug/L	100	112	112	67-122	
2-Hexanone	ug/L	100	119	119	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	114	114	76-120	
Acetone	ug/L	100	119	119	72-120	
Benzene	ug/L	20	20.5	103	80-120	
Bromodichloromethane	ug/L	20	19.5	97	80-120	
Bromoform	ug/L	20	18.8	94	73-138	
Bromomethane	ug/L	20	23.2	116	38-137	
Carbon disulfide	ug/L	20	19.2	96	71-129	
Carbon tetrachloride	ug/L	20	18.7	94	67-146	
Chlorobenzene	ug/L	20	20.5	103	80-120	
Chloroethane	ug/L	20	19.4	97	76-120	
Chloroform	ug/L	20	17.9	89	80-120	
Chloromethane	ug/L	20	21.3	106	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.3	91	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.8	99	80-120	
Dibromochloromethane	ug/L	20	20.6	103	80-126	
Ethylbenzene	ug/L	20	20.9	104	80-120	
Methylene chloride	ug/L	20	19.4	97	80-120	
Styrene	ug/L	20	20.8	104	80-123	
Tetrachloroethene	ug/L	20	19.6	98	80-123	
Toluene	ug/L	20	20.9	105	80-120	
trans-1,2-Dichloroethene	ug/L	20	17.9	89	80-120	
trans-1,3-Dichloropropene	ug/L	20	21.9	110	80-129	
Trichloroethene	ug/L	20	17.9	90	80-120	
Vinyl chloride	ug/L	20	21.1	106	62-125	
Xylene (Total)	ug/L	60	61.7	103	80-120	
1,2-Dichloroethane-d4 (S)	%			105	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			106	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210979

QC Batch: MSV/73734
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210979002, 60210979003

METHOD BLANK: 1696551
Matrix: Water
Associated Lab Samples: 60210979002, 60210979003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 21:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 21:47	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 21:47	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 21:47	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 21:47	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 21:47	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 21:47	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 21:47	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 21:47	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 21:47	
Acetone	ug/L	ND	10.0	1.9	01/13/16 21:47	
Benzene	ug/L	ND	1.0	0.060	01/13/16 21:47	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 21:47	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 21:47	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 21:47	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 21:47	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 21:47	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 21:47	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 21:47	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 21:47	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 21:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 21:47	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 21:47	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 21:47	
Ethylbenzene	ug/L	ND	1.0	0.18	01/13/16 21:47	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 21:47	
Styrene	ug/L	ND	1.0	0.12	01/13/16 21:47	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 21:47	
Toluene	ug/L	ND	1.0	0.17	01/13/16 21:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 21:47	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 21:47	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 21:47	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 21:47	
Xylene (Total)	ug/L	ND	3.0	0.42	01/13/16 21:47	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 21:47	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 21:47	
Toluene-d8 (S)	%	102	80-120		01/13/16 21:47	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210979

LABORATORY CONTROL SAMPLE: 1696552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.0	95	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	21.8	109	73-121	
1,1,2-Trichloroethane	ug/L	20	18.9	94	80-120	
1,1-Dichloroethane	ug/L	20	20.0	100	80-120	
1,1-Dichloroethene	ug/L	20	17.6	88	80-120	
1,2-Dichloroethane	ug/L	20	19.4	97	81-120	
1,2-Dichloropropane	ug/L	20	19.3	96	80-120	
2-Butanone (MEK)	ug/L	100	106	106	67-122	
2-Hexanone	ug/L	100	115	115	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	76-120	
Acetone	ug/L	100	117	117	72-120	
Benzene	ug/L	20	20.2	101	80-120	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	18.3	91	73-138	
Bromomethane	ug/L	20	22.1	110	38-137	
Carbon disulfide	ug/L	20	19.3	97	71-129	
Carbon tetrachloride	ug/L	20	18.1	91	67-146	
Chlorobenzene	ug/L	20	19.9	99	80-120	
Chloroethane	ug/L	20	18.7	94	76-120	
Chloroform	ug/L	20	18.0	90	80-120	
Chloromethane	ug/L	20	21.3	107	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	80-120	
Dibromochloromethane	ug/L	20	19.2	96	80-126	
Ethylbenzene	ug/L	20	19.6	98	80-120	
Methylene chloride	ug/L	20	19.2	96	80-120	
Styrene	ug/L	20	19.9	99	80-123	
Tetrachloroethene	ug/L	20	18.7	94	80-123	
Toluene	ug/L	20	20.2	101	80-120	
trans-1,2-Dichloroethene	ug/L	20	17.5	88	80-120	
trans-1,3-Dichloropropene	ug/L	20	21.1	105	80-129	
Trichloroethene	ug/L	20	17.8	89	80-120	
Vinyl chloride	ug/L	20	20.5	102	62-125	
Xylene (Total)	ug/L	60	58.1	97	80-120	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			102	80-120	

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QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60210979

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73728

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/73734

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210979

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210979001	**MW-175-201610**	EPA 5030B/8260	MSV/73728		
60210979002	**VP-08-201610**	EPA 5030B/8260	MSV/73734		
60210979003	**VP-07-201610**	EPA 5030B/8260	MSV/73734		

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Sample Condition Upon Receipt

WO# : 60210979

60210979

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☑ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☑ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 4.3

Temperature should be above freezing to 6°C

Date and initials of person examining contents: PVI 1/12/16

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 holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<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	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☐Yes ☑No ☐N/A	
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☑N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Colleen Clayton Date: 01/13/2016

F-KS-C-003-Rev.9, 30June2015

CHAIN-OF-CUSTODY / Analytical Request Document

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

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Page: 1 of 1

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tamara Gleason
	tgleason@environcorp.com
Purchase Order No.:	
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tamara Gleason
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Colleen Clyne (913) 563-1406
Pace Profile #:	7444 water, 7709 soil

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-175-201610	WT	G	1/11/16	1035				3				X					X	X	N	30696 01
2	VP-08-201610	WT	G	1/11/16	1100				3				X					X	X	N	02
3	VP-07-201610	WT	G	1/11/16	1120				3				X					X	X	N	03
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

60210979

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Wendy Stonestreet/REE	1/11/16	1830	[signature]	1/12/16	0750	4°C	X	X	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM/DD/YY): 1/11/2016

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-Feb-2007

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

January 22, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60210981

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60210981

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60210981

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60210981001	**VP-15-201601**	Water	01/11/16 13:30	01/12/16 07:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210981

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60210981001	**VP-15-201601**	EPA 5030B/8260	PGH	38	PASI-K

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210981

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 22, 2016

General Information:
1 sample was analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73734

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210981

Sample: VP-15-201601 **Lab ID: 60210981001** Collected: 01/11/16 13:30 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 23:43	67-64-1	
Benzene	**1.1**	ug/L	1.0	0.060	1		01/13/16 23:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 23:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 23:43	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 23:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 23:43	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 23:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 23:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 23:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 23:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 23:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 23:43	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 23:43	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 23:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 23:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 23:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 23:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 23:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 23:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 23:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 23:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 11:11	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 23:43	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 23:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 23:43	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 23:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 23:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 23:43	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 23:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 23:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 23:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 23:43	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 23:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 11:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 23:43	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	80-120		1		01/13/16 23:43	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/13/16 23:43	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 23:43		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210981

QC Batch: MSV/73734
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210981001

METHOD BLANK: 1696551
Matrix: Water
Associated Lab Samples: 60210981001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 21:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 21:47	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 21:47	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 21:47	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 21:47	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 21:47	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 21:47	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 21:47	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 21:47	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 21:47	
Acetone	ug/L	ND	10.0	1.9	01/13/16 21:47	
Benzene	ug/L	ND	1.0	0.060	01/13/16 21:47	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 21:47	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 21:47	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 21:47	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 21:47	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 21:47	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 21:47	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 21:47	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 21:47	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 21:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 21:47	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 21:47	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 21:47	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 21:47	
Styrene	ug/L	ND	1.0	0.12	01/13/16 21:47	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 21:47	
Toluene	ug/L	ND	1.0	0.17	01/13/16 21:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 21:47	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 21:47	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 21:47	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 21:47	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 21:47	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 21:47	
Toluene-d8 (S)	%	102	80-120		01/13/16 21:47	

LABORATORY CONTROL SAMPLE: 1696552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.0	95	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210981

LABORATORY CONTROL SAMPLE: 1696552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	21.8	109	73-121	
1,1,2-Trichloroethane	ug/L	20	18.9	94	80-120	
1,1-Dichloroethane	ug/L	20	20.0	100	80-120	
1,1-Dichloroethene	ug/L	20	17.6	88	80-120	
1,2-Dichloroethane	ug/L	20	19.4	97	81-120	
1,2-Dichloropropane	ug/L	20	19.3	96	80-120	
2-Butanone (MEK)	ug/L	100	106	106	67-122	
2-Hexanone	ug/L	100	115	115	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	76-120	
Acetone	ug/L	100	117	117	72-120	
Benzene	ug/L	20	20.2	101	80-120	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	18.3	91	73-138	
Bromomethane	ug/L	20	22.1	110	38-137	
Carbon disulfide	ug/L	20	19.3	97	71-129	
Carbon tetrachloride	ug/L	20	18.1	91	67-146	
Chlorobenzene	ug/L	20	19.9	99	80-120	
Chloroethane	ug/L	20	18.7	94	76-120	
Chloroform	ug/L	20	18.0	90	80-120	
Chloromethane	ug/L	20	21.3	107	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	80-120	
Dibromochloromethane	ug/L	20	19.2	96	80-126	
Methylene chloride	ug/L	20	19.2	96	80-120	
Styrene	ug/L	20	19.9	99	80-123	
Tetrachloroethene	ug/L	20	18.7	94	80-123	
Toluene	ug/L	20	20.2	101	80-120	
trans-1,2-Dichloroethene	ug/L	20	17.5	88	80-120	
trans-1,3-Dichloropropene	ug/L	20	21.1	105	80-129	
Trichloroethene	ug/L	20	17.8	89	80-120	
Vinyl chloride	ug/L	20	20.5	102	62-125	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			102	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210981

QC Batch: MSV/73748
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210981001

METHOD BLANK: 1696916 Matrix: Water
Associated Lab Samples: 60210981001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	1.0	0.18	01/14/16 09:29	
Xylene (Total)	ug/L	ND	3.0	0.42	01/14/16 09:29	
1,2-Dichloroethane-d4 (S)	%	106	80-120		01/14/16 09:29	
4-Bromofluorobenzene (S)	%	98	80-120		01/14/16 09:29	
Toluene-d8 (S)	%	100	80-120		01/14/16 09:29	

LABORATORY CONTROL SAMPLE: 1696917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	20	20.8	104	80-120	
Xylene (Total)	ug/L	60	65.1	108	80-120	
1,2-Dichloroethane-d4 (S)	%			107	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696926 1696927

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethylbenzene	ug/L	ND	20	20	20.4	21.6	102	108	51-148	6	14	
Xylene (Total)	ug/L	ND	60	60	58.9	67.5	98	112	39-158	14	15	
1,2-Dichloroethane-d4 (S)	%						105	108	80-120			
4-Bromofluorobenzene (S)	%						105	102	80-120			
Toluene-d8 (S)	%						103	99	80-120			

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QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60210981

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73734

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210981

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210981001	**VP-15-201601**	EPA 5030B/8260	MSV/73734		
60210981001	**VP-15-201601**	EPA 5030B/8260	MSV/73748		

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Sample Condition Upon Receipt

WO# : 60210981

60210981

Optional
Proj Due Date:
Proj Name:

Client Name: Environ

Courier: FedEx ☐ UPS ☐ VIA ☑ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☑ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 4.3

Temperature should be above freezing to 6°C

Date and initials of person examining contents: PVI 1/12/16

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 holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<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	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☐Yes ☑No ☐N/A	
Pace Trip Blank lot # (if purchased): _____		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☑N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Colleen Clyne Date: 01/13/2016

F-KS-C-003-Rev.9, 30June2015

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical
www.pacelabs.com

Page: 1 of 1

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	Section D 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 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	8010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	VP-15 201601	WT	G	1/11/16	1330				3				X					X											N	30694 01
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

6021098l

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)
~~Level IV data package required~~	Wendy Stonestreet IRE	1/11/16	1830		1/12/16	0750	4-3	X	X	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM/DD/YY): 1/11/2016

*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-Feb-2007

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 27, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH AR
Pace Project No.: 60211085

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 13, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH AR
Pace Project No.: 60211085

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

Dallas Certification IDs:

400 West Bethany Dr Suite 190, Allen, TX 75013
EPA# TX00074
Texas Certification #: T104704232-15-12
Texas Certification #: T104704232-14-8
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 2014-055
Louisiana Certification #: 02007

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SAMPLE SUMMARY

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60211085001	MW-40R-201601	Water	01/12/16 09:35	01/13/16 08:55
60211085002	IW-72-201601	Water	01/12/16 09:30	01/13/16 08:55
60211085003	IW-74-201601	Water	01/12/16 10:55	01/13/16 08:55
60211085004	IW-73-201601	Water	01/12/16 14:10	01/13/16 08:55
60211085005	MW-41R-201601	Water	01/12/16 11:20	01/13/16 08:55
60211085006	IW-76-201601	Water	01/12/16 16:00	01/13/16 08:55
60211085007	MW-39R-201601	Water	01/12/16 13:15	01/13/16 08:55
60211085008	MW-46R-201601	Water	01/12/16 15:56	01/13/16 08:55
60211085009	MW-55R-201601	Water	01/12/16 08:55	01/13/16 08:55
60211085010	MW-68-201601	Water	01/12/16 11:12	01/13/16 08:55
60211085011	RW-69-201601	Water	01/12/16 13:30	01/13/16 08:55
60211085012	ITMW-6-201601	Water	01/12/16 16:45	01/13/16 08:55
60211085013	MW-27-201601	Water	01/12/16 09:20	01/13/16 08:55
60211085014	MW-31R-201601	Water	01/12/16 15:10	01/13/16 08:55
60211085015	MW-32R-201601	Water	01/12/16 17:15	01/13/16 08:55
60211085016	MW-97-201601	Water	01/12/16 13:00	01/13/16 08:55
60211085017	MW-183-201601	Water	01/12/16 09:03	01/13/16 08:55
60211085018	MW-96-201601	Water	01/12/16 11:05	01/13/16 08:55
60211085019	MW-89-201601	Water	01/12/16 17:20	01/13/16 08:55
60211085020	MW-58R-201601	Water	01/12/16 10:15	01/13/16 08:55
60211085021	MW-88-201601	Water	01/12/16 13:35	01/13/16 08:55
60211085022	ITMW-20-201601	Water	01/12/16 15:35	01/13/16 08:55
60211085023	MW-63R-201601	Water	01/12/16 09:10	01/13/16 08:55
60211085024	MW-22-201601	Water	01/12/16 15:25	01/13/16 08:55
60211085025	ITMW-14-201601	Water	01/12/16 15:35	01/13/16 08:55
60211085026	MW-90-201601	Water	01/12/16 11:15	01/13/16 08:55
60211085027	ITMW-2-201601	Water	01/12/16 15:20	01/13/16 08:55
60211085028	ITMW-4-201601	Water	01/12/16 13:25	01/13/16 08:55
60211085029	MW-28-201601	Water	01/12/16 11:50	01/13/16 08:55
60211085030	DUP-07-201601	Water	01/12/16 11:20	01/13/16 08:55
60211085031	DUP-06-201601	Water	01/12/16 09:35	01/13/16 08:55
60211085032	DUP-05-201601	Water	01/12/16 10:55	01/13/16 08:55
60211085033	DUP-10-201601	Water	01/12/16 10:15	01/13/16 08:55
60211085034	EB-04-201601	Water	01/12/16 16:45	01/13/16 08:55
60211085035	EB-03-201601	Water	01/12/16 17:10	01/13/16 08:55
60211085036	TB-07-201601	Water	01/12/16 08:00	01/13/16 08:55
60211085037	TB-08-2016021	Water	01/12/16 08:00	01/13/16 08:55

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
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SAMPLE SUMMARY

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60211085038	**TB-09-2016021**	Water	01/12/16 08:00	01/13/16 08:55
60211085039	**TB-10-2016021**	Water	01/12/16 08:00	01/13/16 08:55
60211085040	**TB-11-2016021**	Water	01/12/16 08:00	01/13/16 08:55
60211085041	**TB-12-2016021**	Water	01/12/16 08:00	01/13/16 08:55
60211085042	**TB-13-2016021**	Water	01/12/16 08:00	01/13/16 08:55
60211085043	**TB-14-2016021**	Water	01/12/16 08:00	01/13/16 08:55
60211085044	**IW-74-201601**	Water	01/12/16 10:55	01/13/16 08:55

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60211085001	**MW-40R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085002	**IW-72-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085003	**IW-74-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085004	**IW-73-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085005	**MW-41R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085006	**IW-76-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K

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(913)599-5665

SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085007	**MW-39R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085008	**MW-46R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085009	**MW-55R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085010	**MW-68-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085011	**RW-69-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085012	**ITMW-6-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085013	**MW-27-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085014	**MW-31R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085015	**MW-32R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085016	**MW-97-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085017	**MW-183-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085018	**MW-96-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085019	**MW-89-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085020	**MW-58R-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-P E	MRU	1	PASI-D
60211085021	**MW-88-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085022	**ITMW-20-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085023	**MW-63R-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085024	**MW-22-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085025	**ITMW-14-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085026	**MW-90-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085027	**ITMW-2-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085028	**ITMW-4-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085029	**MW-28-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085030	**DUP-07-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211085031	**DUP-06-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211085032	**DUP-05-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211085033	**DUP-10-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211085034	**EB-04-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211085035	**EB-03-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211085036	**TB-07-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211085037	**TB-08-2016021**	EPA 5030B/8260	PGH	38	PASI-K
60211085038	**TB-09-2016021**	EPA 5030B/8260	PGH	38	PASI-K
60211085039	**TB-10-2016021**	EPA 5030B/8260	PGH	38	PASI-K
60211085040	**TB-11-2016021**	EPA 5030B/8260	PGH	38	PASI-K
60211085041	**TB-12-2016021**	EPA 5030B/8260	PGH	38	PASI-K
60211085042	**TB-13-2016021**	EPA 5030B/8260	PGH	38	PASI-K
60211085043	**TB-14-2016021**	EPA 5030B/8260	PGH	38	PASI-K

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 8015 - Alcohol**
Description: Alcohol by Direct Inject GCFID
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for EPA 8015 - Alcohol. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 27, 2016

General Information:
43 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: MSV/73769

S2: Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

- IW-76-201601 (Lab ID: 60211085006)
  - Toluene-d8 (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: MSV/73748

B: Analyte was detected in the associated method blank.

- BLANK for HBN 415721 [MSV/7374 (Lab ID: 1696916)
  - Chloromethane

QC Batch: MSV/73750

B: Analyte was detected in the associated method blank.

- BLANK for HBN 415737 [MSV/7375 (Lab ID: 1697069)
  - Chloromethane

QC Batch: MSV/73769

B: Analyte was detected in the associated method blank.

- BLANK for HBN 415881 [MSV/7376 (Lab ID: 1697620)
  - Chloromethane

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 27, 2016

QC Batch: MSV/73748

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 1696917)
  - Acetone

QC Batch: MSV/73752

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 1697130)
  - 2-Hexanone
  - Acetone

QC Batch: MSV/73769

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 1697621)
  - Acetone

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73748

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211085009

R1: RPD value was outside control limits.
- MSD (Lab ID: 1696927)
  - 1,1,2,2-Tetrachloroethane
  - Styrene

QC Batch: MSV/73749

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73750

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211085012,60211085022

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 1697071)
  - Styrene
- MS (Lab ID: 1697073)
  - Styrene
- MSD (Lab ID: 1697072)
  - Styrene
- MSD (Lab ID: 1697074)
  - 2-Hexanone
  - Styrene

R1: RPD value was outside control limits.
- MSD (Lab ID: 1697074)
  - 1,1,2,2-Tetrachloroethane
  - 1,1,2-Trichloroethane
  - Chlorobenzene

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 27, 2016

QC Batch: MSV/73750

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211085012,60211085022

R1: RPD value was outside control limits.

- Dibromochloromethane
- Tetrachloroethene
- trans-1,3-Dichloropropene

QC Batch: MSV/73752

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211085026,60211085029

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1697131)
  - 2-Hexanone

R1: RPD value was outside control limits.

- MSD (Lab ID: 1697132)
  - 1,1,2,2-Tetrachloroethane

QC Batch: MSV/73769

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73771

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73772

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: MSV/73769

P2: Re-extraction or re-analysis could not be performed due to insufficient sample amount.

- IW-76-201601 (Lab ID: 60211085006)
  - Acetone

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **SM 3500-Fe B#4**
Description: Iron, Ferric (Calculation)
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for SM 3500-Fe B#4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Ferrous Fe performed in the field
- QC Batch: WET / 59735
- QC Batch: WET / 59736

Ferrous Fe perfromed in the field
- QC Batch: WET / 59750

Analyte Comments:

QC Batch: WET/59750

1e: Total Iron was confirmed.
- MW-22-201601 (Lab ID: 60211085024)
  - Iron, Ferric
- MW-39R-201601 (Lab ID: 60211085007)
  - Iron, Ferric

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- ITMW-14-201601 (Lab ID: 60211085025)
- ITMW-2-201601 (Lab ID: 60211085027)
- ITMW-20-201601 (Lab ID: 60211085022)
- ITMW-4-201601 (Lab ID: 60211085028)
- ITMW-6-201601 (Lab ID: 60211085012)
- IW-72-201601 (Lab ID: 60211085002)
- IW-73-201601 (Lab ID: 60211085004)
- IW-74-201601 (Lab ID: 60211085003)
- IW-76-201601 (Lab ID: 60211085006)
- MW-183-201601 (Lab ID: 60211085017)
- MW-22-201601 (Lab ID: 60211085024)
- MW-27-201601 (Lab ID: 60211085013)
- MW-28-201601 (Lab ID: 60211085029)
- MW-31R-201601 (Lab ID: 60211085014)
- MW-32R-201601 (Lab ID: 60211085015)
- MW-39R-201601 (Lab ID: 60211085007)
- MW-40R-201601 (Lab ID: 60211085001)
- MW-41R-201601 (Lab ID: 60211085005)
- MW-46R-201601 (Lab ID: 60211085008)
- MW-55R-201601 (Lab ID: 60211085009)
- MW-58R-201601 (Lab ID: 60211085020)
- MW-63R-201601 (Lab ID: 60211085023)
- MW-68-201601 (Lab ID: 60211085010)
- MW-88-201601 (Lab ID: 60211085021)
- MW-89-201601 (Lab ID: 60211085019)
- MW-90-201601 (Lab ID: 60211085026)
- MW-96-201601 (Lab ID: 60211085018)
- MW-97-201601 (Lab ID: 60211085016)
- RW-69-201601 (Lab ID: 60211085011)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Environ_AR
Date: January 27, 2016

Additional Comments:

Batch Comments:

Field pH
- QC Batch: WET / 59744
- QC Batch: WET / 59745

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.
- MW-46R-201601 (Lab ID: 60211085008)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 350.1**
Description: 350.1 Ammonia
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37769

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211036001,60211037003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1698764)
  - Nitrogen, Ammonia

QC Batch: WETA/37770

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211085009,60211085012

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1698769)
  - Nitrogen, Ammonia
- MS (Lab ID: 1698770)
  - Nitrogen, Ammonia

QC Batch: WETA/37771

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211085026,60211085029

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1698774)
  - Nitrogen, Ammonia
- MS (Lab ID: 1698775)
  - Nitrogen, Ammonia

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 350.1**
Description: 350.1 Ammonia
Client: Environ_AR
Date: January 27, 2016

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37712

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211080001,60211085009

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1696523)
  - Nitrogen, NO2 plus NO3
  - Nitrogen, Nitrate

QC Batch: WETA/37713

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211085022,60211092002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1696537)
  - Nitrogen, NO2 plus NO3
  - Nitrogen, Nitrate
  - Nitrogen, Nitrite

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **SM 4500-CO2 D**
Description: Total Carbon Dioxide Calc
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for SM 4500-CO2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **SM 5310C**
Description: 5310C TOC
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **SM 4500-P E**
Description: SM4500P-E, Total Phosphorus
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for SM 4500-P E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with SM4500-P B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-40R-201601 **Lab ID: 60211085001** Collected: 01/12/16 09:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 12:43	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**17500**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 11:42	7439-89-6	
Manganese	**4640**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 11:42	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 11:26	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 11:26	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 11:26	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 11:26	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 11:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 11:26	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 11:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 11:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 11:26	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 11:26	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 11:26	67-66-3	
Chloromethane	**0.39J**	ug/L	1.0	0.080	1		01/14/16 11:26	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 11:26	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 11:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 11:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 11:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 11:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 11:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 11:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 11:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 11:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 11:26	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 11:26	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 11:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 11:26	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 11:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 11:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 11:26	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 11:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 11:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 11:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 11:26	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 11:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 11:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/14/16 11:26	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	80-120		1		01/14/16 11:26	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		01/14/16 11:26	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 11:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-40R-201601 **Lab ID: 60211085001** Collected: 01/12/16 09:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**64.3**	mg/L	20.0	2.0	1		01/21/16 11:44		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 11:44		
Alkalinity, Total as CaCO3	**64.3**	mg/L	20.0	2.0	1		01/21/16 11:44		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**14.2**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:05	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**194**	mg/L	20.0	10.0	20		01/17/16 12:47	16887-00-6	
Sulfate	**5.3**	mg/L	1.0	0.24	1		01/17/16 12:30	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 10:16	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.015J**	mg/L	0.10	0.014	1		01/13/16 14:30		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:30		
Nitrogen, NO2 plus NO3	**0.015J**	mg/L	0.10	0.014	1		01/13/16 14:30		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**164**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 18:31	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.12**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:53		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: IW-72-201601 **Lab ID: 60211085002** Collected: 01/12/16 09:30 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 12:54	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**300**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:22	7439-89-6	
Manganese	**2590**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 11:44	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**2.0J**	ug/L	10.0	1.9	1		01/14/16 11:40	67-64-1	L1
Benzene	**0.14J**	ug/L	1.0	0.060	1		01/14/16 11:40	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 11:40	75-27-4	
Bromoform	**1.4**	ug/L	1.0	0.070	1		01/14/16 11:40	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 11:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 11:40	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 11:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 11:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 11:40	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 11:40	75-00-3	
Chloroform	**0.19J**	ug/L	1.0	0.14	1		01/14/16 11:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/14/16 11:40	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 11:40	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 11:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 11:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 11:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 11:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 11:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 11:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 11:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 11:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 11:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 11:40	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 11:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 11:40	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 11:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 11:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 11:40	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 11:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 11:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 11:40	79-00-5	
Trichloroethene	**1.4**	ug/L	1.0	0.17	1		01/14/16 11:40	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 11:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 11:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	80-120		1		01/14/16 11:40	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/14/16 11:40	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/14/16 11:40	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 11:40		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: IW-72-201601 **Lab ID: 60211085002** Collected: 01/12/16 09:30 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**117**	mg/L	20.0	2.0	1		01/21/16 11:48		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 11:48		
Alkalinity, Total as CaCO3	**117**	mg/L	20.0	2.0	1		01/21/16 11:48		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.30**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.9**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**220**	mg/L	20.0	10.0	20		01/17/16 13:21	16887-00-6	
Sulfate	**6.3**	mg/L	1.0	0.24	1		01/17/16 13:04	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 10:17	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.1**	mg/L	0.10	0.014	1		01/13/16 14:31		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:31		
Nitrogen, NO2 plus NO3	**1.1**	mg/L	0.10	0.014	1		01/13/16 14:31		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**384**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 18:44	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.26**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:54		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: IW-74-201601 **Lab ID: 60211085003** Collected: 01/12/16 10:55 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 13:06	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**54.3**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:24	7439-89-6	
Manganese	**610**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 11:47	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 12:24	67-64-1	L3
Benzene	**0.18J**	ug/L	1.0	0.060	1		01/14/16 12:24	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 12:24	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 12:24	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 12:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 12:24	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 12:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 12:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 12:24	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 12:24	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 12:24	67-66-3	
Chloromethane	**0.25J**	ug/L	1.0	0.080	1		01/14/16 12:24	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 12:24	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 12:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 12:24	107-06-2	
1,1-Dichloroethene	**0.26J**	ug/L	1.0	0.20	1		01/14/16 12:24	75-35-4	
cis-1,2-Dichloroethene	**3.2**	ug/L	1.0	0.080	1		01/14/16 12:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 12:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 12:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 12:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 12:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 12:24	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 12:24	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 12:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 12:24	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 12:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 12:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 12:24	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 12:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 12:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 12:24	79-00-5	
Trichloroethene	**135**	ug/L	1.0	0.17	1		01/14/16 12:24	79-01-6	
Vinyl chloride	**0.17J**	ug/L	1.0	0.13	1		01/14/16 12:24	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 12:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/14/16 12:24	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/14/16 12:24	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/14/16 12:24	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 12:24		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: IW-74-201601 **Lab ID: 60211085003** Collected: 01/12/16 10:55 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**68.8**	mg/L	20.0	2.0	1		01/21/16 11:52		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 11:52		
Alkalinity, Total as CaCO3	**68.8**	mg/L	20.0	2.0	1		01/21/16 11:52		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.7**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**227**	mg/L	20.0	10.0	20		01/17/16 14:30	16887-00-6	
Sulfate	**3.0**	mg/L	1.0	0.24	1		01/17/16 14:13	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:27	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.69**	mg/L	0.10	0.014	1		01/13/16 14:34		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:34		
Nitrogen, NO2 plus NO3	**0.69**	mg/L	0.10	0.014	1		01/13/16 14:34		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**329**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 18:57	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.21**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:54		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: IW-73-201601 **Lab ID: 60211085004** Collected: 01/12/16 14:10 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 13:17	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**568**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 11:49	7439-89-6	
Manganese	**1480**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 11:49	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 12:39	67-64-1	L3
Benzene	**0.11J**	ug/L	1.0	0.060	1		01/14/16 12:39	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 12:39	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 12:39	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 12:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 12:39	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 12:39	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 12:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 12:39	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 12:39	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 12:39	67-66-3	
Chloromethane	**0.15J**	ug/L	1.0	0.080	1		01/14/16 12:39	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 12:39	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 12:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 12:39	107-06-2	
1,1-Dichloroethene	**0.92J**	ug/L	1.0	0.20	1		01/14/16 12:39	75-35-4	
cis-1,2-Dichloroethene	**4.3**	ug/L	1.0	0.080	1		01/14/16 12:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 12:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 12:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 12:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 12:39	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 12:39	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 12:39	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 12:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 12:39	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 12:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 12:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 12:39	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 12:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 12:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 12:39	79-00-5	
Trichloroethene	**103**	ug/L	1.0	0.17	1		01/14/16 12:39	79-01-6	
Vinyl chloride	**0.24J**	ug/L	1.0	0.13	1		01/14/16 12:39	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 12:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/14/16 12:39	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/14/16 12:39	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/14/16 12:39	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 12:39		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: IW-73-201601 **Lab ID: 60211085004** Collected: 01/12/16 14:10 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**75.6**	mg/L	20.0	2.0	1		01/21/16 12:09		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:09		
Alkalinity, Total as CaCO3	**75.6**	mg/L	20.0	2.0	1		01/21/16 12:09		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.57**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**157**	mg/L	20.0	10.0	20		01/17/16 15:05	16887-00-6	
Sulfate	**7.0**	mg/L	1.0	0.24	1		01/17/16 14:47	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:29	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.26**	mg/L	0.10	0.014	1		01/13/16 14:35		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:35		
Nitrogen, NO2 plus NO3	**0.26**	mg/L	0.10	0.014	1		01/13/16 14:35		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**184**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.97J**	mg/L	1.0	0.50	1		01/20/16 19:10	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.14**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:55		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-41R-201601 **Lab ID: 60211085005** Collected: 01/12/16 11:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 13:28	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**15500**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 11:51	7439-89-6	
Manganese	**10100**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 11:51	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 12:53	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 12:53	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 12:53	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 12:53	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 12:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 12:53	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 12:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 12:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 12:53	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 12:53	75-00-3	
Chloroform	**0.81J**	ug/L	1.0	0.14	1		01/14/16 12:53	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/14/16 12:53	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 12:53	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 12:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 12:53	107-06-2	
1,1-Dichloroethene	**0.28J**	ug/L	1.0	0.20	1		01/14/16 12:53	75-35-4	
cis-1,2-Dichloroethene	**40.9**	ug/L	1.0	0.080	1		01/14/16 12:53	156-59-2	
trans-1,2-Dichloroethene	**0.61J**	ug/L	1.0	0.20	1		01/14/16 12:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 12:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 12:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 12:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 12:53	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 12:53	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 12:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 12:53	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 12:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 12:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 12:53	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 12:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 12:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 12:53	79-00-5	
Trichloroethene	**59.9**	ug/L	1.0	0.17	1		01/14/16 12:53	79-01-6	
Vinyl chloride	**0.38J**	ug/L	1.0	0.13	1		01/14/16 12:53	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 12:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/14/16 12:53	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/14/16 12:53	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/14/16 12:53	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 12:53		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-41R-201601 **Lab ID: 60211085005** Collected: 01/12/16 11:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**70.1**	mg/L	20.0	2.0	1		01/21/16 12:13		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:13		
Alkalinity, Total as CaCO3	**70.1**	mg/L	20.0	2.0	1		01/21/16 12:13		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**12.2**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**313**	mg/L	20.0	10.0	20		01/17/16 15:39	16887-00-6	
Sulfate	**2.4**	mg/L	1.0	0.24	1		01/17/16 15:22	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:30	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.021J**	mg/L	0.10	0.014	1		01/13/16 14:35		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:35		
Nitrogen, NO2 plus NO3	**0.021J**	mg/L	0.10	0.014	1		01/13/16 14:35		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**170**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 19:50	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.047**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:55		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: IW-76-201601 **Lab ID: 60211085006** Collected: 01/12/16 16:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 13:39	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**2880**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 11:53	7439-89-6	
Manganese	**2640**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 11:53	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**45.6**	ug/L	10.0	1.9	1		01/15/16 11:56	67-64-1	L1,P2
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 11:56	71-43-2	
Bromodichloromethane	**0.56J**	ug/L	1.0	0.19	1		01/15/16 11:56	75-27-4	
Bromoform	**46.3**	ug/L	1.0	0.070	1		01/15/16 11:56	75-25-2	
Bromomethane	**105**	ug/L	5.0	0.16	1		01/15/16 11:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 11:56	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 11:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 11:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 11:56	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 11:56	75-00-3	
Chloroform	**0.27J**	ug/L	1.0	0.14	1		01/15/16 11:56	67-66-3	
Chloromethane	**21.1**	ug/L	1.0	0.080	1		01/15/16 11:56	74-87-3	
Dibromochloromethane	**1.9**	ug/L	1.0	0.21	1		01/15/16 11:56	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 11:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 11:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 11:56	75-35-4	
cis-1,2-Dichloroethene	**1.9**	ug/L	1.0	0.080	1		01/15/16 11:56	156-59-2	
trans-1,2-Dichloroethene	**0.65J**	ug/L	1.0	0.20	1		01/15/16 11:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 11:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 11:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 11:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 11:56	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 11:56	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 11:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 11:56	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 11:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 11:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 11:56	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 11:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 11:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 11:56	79-00-5	
Trichloroethene	**80.2**	ug/L	1.0	0.17	1		01/15/16 11:56	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 11:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 11:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/15/16 11:56	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/15/16 11:56	17060-07-0	
Toluene-d8 (S)	70	%	80-120		1		01/15/16 11:56	2037-26-5	S2
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 11:56		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: IW-76-201601 **Lab ID: 60211085006** Collected: 01/12/16 16:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:17		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:17		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/21/16 12:17		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**2.9**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.0**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**289**	mg/L	20.0	10.0	20		01/17/16 15:56	16887-00-6	
Sulfate	**1450**	mg/L	100	23.7	100		01/17/16 16:13	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.16**	mg/L	0.10	0.046	1		01/19/16 11:31	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.4**	mg/L	0.10	0.014	1		01/13/16 14:36		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:36		
Nitrogen, NO2 plus NO3	**1.4**	mg/L	0.10	0.014	1		01/13/16 14:36		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 20:29	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.26**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:55		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-39R-201601 **Lab ID: 60211085007** Collected: 01/12/16 13:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 13:50	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**1990**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 11:56	7439-89-6	
Manganese	**986**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 11:56	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 11:55	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 11:55	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 11:55	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 11:55	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 11:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 11:55	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 11:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 11:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 11:55	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 11:55	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 11:55	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/14/16 11:55	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 11:55	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 11:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 11:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 11:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 11:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 11:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 11:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 11:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 11:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 11:55	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 11:55	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 11:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 11:55	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 11:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 11:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 11:55	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 11:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 11:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 11:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 11:55	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 11:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 11:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/14/16 11:55	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/14/16 11:55	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/14/16 11:55	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 11:55		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-39R-201601 **Lab ID: 60211085007** Collected: 01/12/16 13:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**88.1**	mg/L	20.0	2.0	1		01/21/16 12:21		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:21		
Alkalinity, Total as CaCO3	**88.1**	mg/L	20.0	2.0	1		01/21/16 12:21		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/27/16 00:00	7439-89-6	1e
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.2**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:07	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**201**	mg/L	20.0	10.0	20		01/17/16 16:47	16887-00-6	
Sulfate	**3.7**	mg/L	1.0	0.24	1		01/17/16 16:30	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:32	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/13/16 14:37		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:37		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/13/16 14:37		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**189**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.72J**	mg/L	1.0	0.50	1		01/20/16 20:42	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.11**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:56		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-46R-201601 **Lab ID: 60211085008** Collected: 01/12/16 15:56 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 14:02	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**119**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:26	7439-89-6	
Manganese	**107**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 11:58	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 13:22	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 13:22	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 13:22	75-27-4	
Bromoform	**0.91J**	ug/L	1.0	0.070	1		01/14/16 13:22	75-25-2	
Bromomethane	**1.6J**	ug/L	5.0	0.16	1		01/14/16 13:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 13:22	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 13:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 13:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 13:22	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 13:22	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 13:22	67-66-3	
Chloromethane	**0.11J**	ug/L	1.0	0.080	1		01/14/16 13:22	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 13:22	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 13:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 13:22	107-06-2	
1,1-Dichloroethene	**1.3**	ug/L	1.0	0.20	1		01/14/16 13:22	75-35-4	
cis-1,2-Dichloroethene	**10.9**	ug/L	1.0	0.080	1		01/14/16 13:22	156-59-2	
trans-1,2-Dichloroethene	**0.42J**	ug/L	1.0	0.20	1		01/14/16 13:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 13:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 13:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 13:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 13:22	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 13:22	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 13:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 13:22	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 13:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 13:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 13:22	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 13:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 13:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 13:22	79-00-5	
Trichloroethene	**432**	ug/L	5.0	0.85	5		01/14/16 13:37	79-01-6	
Vinyl chloride	**0.56J**	ug/L	1.0	0.13	1		01/14/16 13:22	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 13:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/14/16 13:22	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/14/16 13:22	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/14/16 13:22	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 13:22		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-46R-201601 **Lab ID: 60211085008** Collected: 01/12/16 15:56 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:25		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:25		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/21/16 12:25		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**4.9**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/20/16 11:38	18496-25-8	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**217**	mg/L	20.0	10.0	20		01/17/16 17:56	16887-00-6	
Sulfate	**0.64J**	mg/L	1.0	0.24	1		01/17/16 17:39	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:33	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/13/16 14:38		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:38		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/13/16 14:38		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 20:55	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.062**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:56		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-55R-201601 **Lab ID: 60211085009** Collected: 01/12/16 08:55 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 11:12	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**138**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:28	7439-89-6	
Manganese	**116**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:05	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 12:10	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 12:10	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 12:10	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 12:10	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 12:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 12:10	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 12:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 12:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 12:10	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 12:10	75-00-3	
Chloroform	**0.15J**	ug/L	1.0	0.14	1		01/14/16 12:10	67-66-3	
Chloromethane	**0.19J**	ug/L	1.0	0.080	1		01/14/16 12:10	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 12:10	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 12:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 12:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 12:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 12:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 12:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 12:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 12:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 12:10	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 12:10	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 12:10	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 12:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 12:10	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 12:10	100-42-5	R1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 12:10	79-34-5	R1
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 12:10	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 12:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 12:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 12:10	79-00-5	
Trichloroethene	**0.26J**	ug/L	1.0	0.17	1		01/14/16 12:10	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 12:10	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 12:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/14/16 12:10	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/14/16 12:10	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/14/16 12:10	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 12:10		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-55R-201601 **Lab ID: 60211085009** Collected: 01/12/16 08:55 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**51.8**	mg/L	20.0	2.0	1		01/21/16 12:29		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:29		
Alkalinity, Total as CaCO3	**51.8**	mg/L	20.0	2.0	1		01/21/16 12:29		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.6**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:07	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**11.6**	mg/L	1.0	0.50	1		01/18/16 08:29	16887-00-6	
Sulfate	**16.6**	mg/L	1.0	0.24	1		01/18/16 08:29	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:37	7664-41-7	M1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.16**	mg/L	0.10	0.014	1		01/13/16 14:39		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:39		
Nitrogen, NO2 plus NO3	**0.16**	mg/L	0.10	0.014	1		01/13/16 14:39		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**74.2**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.0**	mg/L	1.0	0.50	1		01/20/16 21:08	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.080**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:57		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-68-201601 **Lab ID: 60211085010** Collected: 01/12/16 11:12 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 14:13	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**456**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:35	7439-89-6	
Manganese	**972**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:11	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 16:16	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 16:16	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 16:16	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 16:16	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 16:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 16:16	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 16:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 16:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 16:16	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 16:16	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 16:16	67-66-3	
Chloromethane	**0.15J**	ug/L	1.0	0.080	1		01/14/16 16:16	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 16:16	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 16:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 16:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 16:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 16:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 16:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 16:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 16:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 16:16	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 16:16	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 16:16	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 16:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 16:16	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 16:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 16:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 16:16	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 16:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 16:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 16:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 16:16	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 16:16	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 16:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/14/16 16:16	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/14/16 16:16	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/14/16 16:16	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 16:16		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-68-201601 **Lab ID: 60211085010** Collected: 01/12/16 11:12 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:37		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:37		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/21/16 12:37		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.36**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:07	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**216**	mg/L	20.0	10.0	20		01/17/16 20:14	16887-00-6	
Sulfate	**1.3**	mg/L	1.0	0.24	1		01/17/16 19:57	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:39	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.17**	mg/L	0.10	0.014	1		01/13/16 14:41		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:41		
Nitrogen, NO2 plus NO3	**0.17**	mg/L	0.10	0.014	1		01/13/16 14:41		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 21:34	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.091**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:57		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: RW-69-201601 **Lab ID: 60211085011** Collected: 01/12/16 13:30 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 14:24	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**177**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:37	7439-89-6	
Manganese	**718**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:13	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 18:56	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 18:56	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 18:56	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 18:56	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 18:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 18:56	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 18:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 18:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 18:56	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 18:56	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 18:56	67-66-3	
Chloromethane	**0.15J**	ug/L	1.0	0.080	1		01/14/16 18:56	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 18:56	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 18:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 18:56	107-06-2	
1,1-Dichloroethene	**0.52J**	ug/L	1.0	0.20	1		01/14/16 18:56	75-35-4	
cis-1,2-Dichloroethene	**4.6**	ug/L	1.0	0.080	1		01/14/16 18:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 18:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 18:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 18:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 18:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 18:56	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 18:56	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 18:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 18:56	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 18:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 18:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 18:56	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 18:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 18:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 18:56	79-00-5	
Trichloroethene	**128**	ug/L	1.0	0.17	1		01/14/16 18:56	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 18:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 18:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/14/16 18:56	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/14/16 18:56	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/14/16 18:56	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 18:56		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: RW-69-201601 **Lab ID: 60211085011** Collected: 01/12/16 13:30 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:42		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:42		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/21/16 12:42		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.4**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**256**	mg/L	20.0	10.0	20		01/17/16 21:22	16887-00-6	
Sulfate	**1.8**	mg/L	1.0	0.24	1		01/17/16 21:05	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:40	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.041J**	mg/L	0.10	0.014	1		01/13/16 14:42		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:42		
Nitrogen, NO2 plus NO3	**0.041J**	mg/L	0.10	0.014	1		01/13/16 14:42		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 21:47	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.062**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:57		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-6-201601 **Lab ID: 60211085012** Collected: 01/12/16 16:45 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 12:10	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**399**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:43	7439-89-6	
Manganese	**259**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:16	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 16:31	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 16:31	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 16:31	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 16:31	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 16:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 16:31	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 16:31	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 16:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 16:31	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 16:31	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 16:31	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/14/16 16:31	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 16:31	124-48-1	
1,1-Dichloroethane	**5.2**	ug/L	1.0	0.050	1		01/14/16 16:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 16:31	107-06-2	
1,1-Dichloroethene	**0.60J**	ug/L	1.0	0.20	1		01/14/16 16:31	75-35-4	
cis-1,2-Dichloroethene	**6.2**	ug/L	1.0	0.080	1		01/14/16 16:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 16:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 16:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 16:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 16:31	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 16:31	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 16:31	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 16:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 16:31	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 16:31	100-42-5	M1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 16:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 16:31	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 16:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 16:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 16:31	79-00-5	
Trichloroethene	**4.2**	ug/L	1.0	0.17	1		01/14/16 16:31	79-01-6	
Vinyl chloride	**0.32J**	ug/L	1.0	0.13	1		01/14/16 16:31	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 16:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/14/16 16:31	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/14/16 16:31	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		01/14/16 16:31	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 16:31		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-6-201601 **Lab ID: 60211085012** Collected: 01/12/16 16:45 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**126**	mg/L	20.0	2.0	1		01/21/16 12:47		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:47		
Alkalinity, Total as CaCO3	**126**	mg/L	20.0	2.0	1		01/21/16 12:47		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.39**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.0**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**114**	mg/L	10.0	5.0	10		01/17/16 21:40	16887-00-6	
Sulfate	**98.7**	mg/L	10.0	2.4	10		01/17/16 21:40	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:41	7664-41-7	M1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**22.6**	mg/L	1.0	0.14	10		01/13/16 15:16		
Nitrogen, Nitrite	ND	mg/L	1.0	0.23	10		01/13/16 15:16		
Nitrogen, NO2 plus NO3	**22.6**	mg/L	1.0	0.14	10		01/13/16 15:16		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**387**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.52J**	mg/L	1.0	0.50	1		01/20/16 22:27	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.095**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:58		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-27-201601 **Lab ID: 60211085013** Collected: 01/12/16 09:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 14:35	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**992**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 12:22	7439-89-6	
Manganese	**21.1**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:22	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 16:45	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 16:45	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 16:45	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 16:45	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 16:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 16:45	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 16:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 16:45	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 16:45	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 16:45	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 16:45	67-66-3	
Chloromethane	**0.13J**	ug/L	1.0	0.080	1		01/14/16 16:45	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 16:45	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 16:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 16:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 16:45	75-35-4	
cis-1,2-Dichloroethene	**0.42J**	ug/L	1.0	0.080	1		01/14/16 16:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 16:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 16:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 16:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 16:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 16:45	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 16:45	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 16:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 16:45	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 16:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 16:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 16:45	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 16:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 16:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 16:45	79-00-5	
Trichloroethene	**0.61J**	ug/L	1.0	0.17	1		01/14/16 16:45	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 16:45	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 16:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/14/16 16:45	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/14/16 16:45	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/14/16 16:45	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 16:45		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-27-201601 **Lab ID: 60211085013** Collected: 01/12/16 09:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**39.0**	mg/L	20.0	2.0	1		01/21/16 13:07		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 13:07		
Alkalinity, Total as CaCO3	**39.0**	mg/L	20.0	2.0	1		01/21/16 13:07		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.81**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.9**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**29.0**	mg/L	5.0	2.5	5		01/17/16 22:31	16887-00-6	
Sulfate	**7.2**	mg/L	1.0	0.24	1		01/17/16 22:14	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:43	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.30**	mg/L	0.10	0.014	1		01/13/16 15:18		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 15:18		
Nitrogen, NO2 plus NO3	**0.30**	mg/L	0.10	0.014	1		01/13/16 15:18		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**140**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.87J**	mg/L	1.0	0.50	1		01/20/16 22:53	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.17**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:59		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-31R-201601 **Lab ID: 60211085014** Collected: 01/12/16 15:10 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 14:46	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**1330**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 12:25	7439-89-6	
Manganese	**668**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:25	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 17:00	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 17:00	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 17:00	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 17:00	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 17:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 17:00	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 17:00	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 17:00	56-23-5	
Chlorobenzene	**0.22J**	ug/L	1.0	0.21	1		01/14/16 17:00	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:00	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 17:00	67-66-3	
Chloromethane	**0.25J**	ug/L	1.0	0.080	1		01/14/16 17:00	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 17:00	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 17:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 17:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 17:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 17:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 17:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 17:00	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 17:00	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 17:00	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 17:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 17:00	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 17:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:00	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 17:00	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 17:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 17:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 17:00	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 17:00	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 17:00	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 17:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		01/14/16 17:00	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		01/14/16 17:00	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/14/16 17:00	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 17:00		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-31R-201601 **Lab ID: 60211085014** Collected: 01/12/16 15:10 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**27.9**	mg/L	20.0	2.0	1		01/21/16 13:12		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 13:12		
Alkalinity, Total as CaCO3	**27.9**	mg/L	20.0	2.0	1		01/21/16 13:12		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.46**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.3**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**117**	mg/L	10.0	5.0	10		01/17/16 23:06	16887-00-6	
Sulfate	**28.8**	mg/L	2.0	0.47	2		01/17/16 22:48	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:44	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.059J**	mg/L	0.10	0.014	1		01/13/16 14:47		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:47		
Nitrogen, NO2 plus NO3	**0.059J**	mg/L	0.10	0.014	1		01/13/16 14:47		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**318**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 23:06	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.058**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:59		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-32R-201601 **Lab ID: 60211085015** Collected: 01/12/16 17:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 14:57	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**4280**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 12:31	7439-89-6	
Manganese	**2130**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:31	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**49.9**	ug/L	10.0	1.9	1		01/15/16 16:48	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 10:13	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 10:13	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 10:13	75-25-2	
Bromomethane	**14.7**	ug/L	5.0	0.16	1		01/14/16 10:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 10:13	78-93-3	
Carbon disulfide	**0.59J**	ug/L	5.0	0.12	1		01/14/16 10:13	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 10:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 10:13	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 10:13	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 10:13	67-66-3	
Chloromethane	**11.6**	ug/L	1.0	0.080	1		01/14/16 10:13	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 10:13	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 10:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 10:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 10:13	75-35-4	
cis-1,2-Dichloroethene	**0.45J**	ug/L	1.0	0.080	1		01/14/16 10:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 10:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 10:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 10:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 10:13	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 10:13	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 10:13	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 10:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 10:13	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 10:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 10:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 10:13	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 10:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 10:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 10:13	79-00-5	
Trichloroethene	**13.1**	ug/L	1.0	0.17	1		01/14/16 10:13	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 10:13	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 10:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/14/16 10:13	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/14/16 10:13	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/14/16 10:13	2037-26-5	
Preservation pH	**3.0**		0.10	0.10	1		01/14/16 10:13		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-32R-201601 **Lab ID: 60211085015** Collected: 01/12/16 17:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 13:16		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 13:16		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/21/16 13:16		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**4.2**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**4.9**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**232**	mg/L	20.0	10.0	20		01/17/16 23:23	16887-00-6	
Sulfate	**339**	mg/L	20.0	4.7	20		01/17/16 23:23	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:46	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.29**	mg/L	0.10	0.014	1		01/13/16 14:48		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:48		
Nitrogen, NO2 plus NO3	**0.29**	mg/L	0.10	0.014	1		01/13/16 14:48		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 23:19	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.069**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:14		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-97-201601 **Lab ID: 60211085016** Collected: 01/12/16 13:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 15:09	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**320**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:50	7439-89-6	
Manganese	**18.9**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:34	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 17:14	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 17:14	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 17:14	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 17:14	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 17:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 17:14	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 17:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 17:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 17:14	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:14	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 17:14	67-66-3	
Chloromethane	**0.11J**	ug/L	1.0	0.080	1		01/14/16 17:14	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 17:14	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 17:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 17:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 17:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 17:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 17:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 17:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 17:14	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 17:14	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 17:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 17:14	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 17:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 17:14	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 17:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 17:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 17:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 17:14	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 17:14	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 17:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/14/16 17:14	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/14/16 17:14	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/14/16 17:14	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 17:14		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-97-201601 **Lab ID: 60211085016** Collected: 01/12/16 13:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**75.6**	mg/L	20.0	2.0	1		01/21/16 13:50		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 13:50		
Alkalinity, Total as CaCO3	**75.6**	mg/L	20.0	2.0	1		01/21/16 13:50		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.30**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.8**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:09	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**9.5**	mg/L	1.0	0.50	1		01/18/16 00:32	16887-00-6	
Sulfate	**49.2**	mg/L	5.0	1.2	5		01/17/16 23:40	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:47	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.16**	mg/L	0.10	0.014	1		01/13/16 14:48		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:48		
Nitrogen, NO2 plus NO3	**0.16**	mg/L	0.10	0.014	1		01/13/16 14:48		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**312**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.90J**	mg/L	1.0	0.50	1		01/20/16 23:32	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.13**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:15		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-183-201601 **Lab ID: 60211085017** Collected: 01/12/16 09:03 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 15:20	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**167**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:54	7439-89-6	
Manganese	**36.9**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:36	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 17:29	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 17:29	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 17:29	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 17:29	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 17:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 17:29	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 17:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 17:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 17:29	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:29	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 17:29	67-66-3	
Chloromethane	**0.14J**	ug/L	1.0	0.080	1		01/14/16 17:29	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 17:29	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 17:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 17:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:29	75-35-4	
cis-1,2-Dichloroethene	**0.32J**	ug/L	1.0	0.080	1		01/14/16 17:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 17:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 17:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 17:29	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 17:29	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 17:29	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 17:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 17:29	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 17:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 17:29	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 17:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 17:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 17:29	79-00-5	
Trichloroethene	**2.7**	ug/L	1.0	0.17	1		01/14/16 17:29	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 17:29	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 17:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/14/16 17:29	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/14/16 17:29	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/14/16 17:29	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 17:29		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-183-201601 **Lab ID: 60211085017** Collected: 01/12/16 09:03 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**96.2**	mg/L	20.0	2.0	1		01/21/16 13:55		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 13:55		
Alkalinity, Total as CaCO3	**96.2**	mg/L	20.0	2.0	1		01/21/16 13:55		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.2**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:09	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.3**	mg/L	1.0	0.50	1		01/18/16 00:49	16887-00-6	
Sulfate	**24.2**	mg/L	2.0	0.47	2		01/18/16 01:06	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:50	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.77**	mg/L	0.10	0.014	1		01/13/16 14:49		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:49		
Nitrogen, NO2 plus NO3	**0.77**	mg/L	0.10	0.014	1		01/13/16 14:49		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**203**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.53J**	mg/L	1.0	0.50	1		01/20/16 23:45	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.12**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:15		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-96-201601 **Lab ID: 60211085018** Collected: 01/12/16 11:05 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 15:31	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**963**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 12:38	7439-89-6	
Manganese	**436**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:38	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 17:43	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 17:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 17:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 17:43	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 17:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 17:43	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 17:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 17:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 17:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 17:43	67-66-3	
Chloromethane	**0.15J**	ug/L	1.0	0.080	1		01/14/16 17:43	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 17:43	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 17:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 17:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 17:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 17:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 17:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 17:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 17:43	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 17:43	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 17:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 17:43	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 17:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 17:43	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 17:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 17:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 17:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 17:43	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 17:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 17:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/14/16 17:43	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/14/16 17:43	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/14/16 17:43	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 17:43		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-96-201601 **Lab ID: 60211085018** Collected: 01/12/16 11:05 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**26.2**	mg/L	20.0	2.0	1		01/21/16 13:59		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 13:59		
Alkalinity, Total as CaCO3	**26.2**	mg/L	20.0	2.0	1		01/21/16 13:59		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.56**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.2**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:09	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**23.7**	mg/L	2.0	1.0	2		01/19/16 05:41	16887-00-6	
Sulfate	**11.2**	mg/L	1.0	0.24	1		01/19/16 05:24	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:51	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.16**	mg/L	0.10	0.014	1		01/13/16 14:50		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:50		
Nitrogen, NO2 plus NO3	**0.16**	mg/L	0.10	0.014	1		01/13/16 14:50		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**332**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 23:58	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.036**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:15		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-89-201601 **Lab ID: 60211085019** Collected: 01/12/16 17:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 15:42	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**92.4**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:17	7439-89-6	
Manganese	**385**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:17	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 17:58	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 17:58	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 17:58	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 17:58	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 17:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 17:58	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 17:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 17:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 17:58	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:58	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 17:58	67-66-3	
Chloromethane	**0.18J**	ug/L	1.0	0.080	1		01/14/16 17:58	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 17:58	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 17:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 17:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:58	75-35-4	
cis-1,2-Dichloroethene	**0.20J**	ug/L	1.0	0.080	1		01/14/16 17:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 17:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 17:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 17:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 17:58	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 17:58	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 17:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 17:58	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 17:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 17:58	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 17:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 17:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 17:58	79-00-5	
Trichloroethene	**11.6**	ug/L	1.0	0.17	1		01/14/16 17:58	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 17:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 17:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/14/16 17:58	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/14/16 17:58	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/14/16 17:58	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 17:58		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-89-201601 **Lab ID: 60211085019** Collected: 01/12/16 17:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**30.6**	mg/L	20.0	2.0	1		01/21/16 14:03		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:03		
Alkalinity, Total as CaCO3	**30.6**	mg/L	20.0	2.0	1		01/21/16 14:03		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.4**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:09	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**39.9**	mg/L	5.0	2.5	5		01/18/16 02:15	16887-00-6	
Sulfate	**5.7**	mg/L	1.0	0.24	1		01/18/16 01:58	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:52	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**86.5**	mg/L	5.0	0.70	50		01/13/16 15:23		
Nitrogen, Nitrite	ND	mg/L	5.0	1.2	50		01/13/16 15:23		
Nitrogen, NO2 plus NO3	**86.5**	mg/L	5.0	0.70	50		01/13/16 15:23		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**282**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.72J**	mg/L	1.0	0.50	1		01/21/16 00:11	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.069**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:16		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-58R-201601 **Lab ID: 60211085020** Collected: 01/12/16 10:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 16:07	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**10400**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:19	7439-89-6	
Manganese	**2170**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:19	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 19:10	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 19:10	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 19:10	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 19:10	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 19:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 19:10	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 19:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 19:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 19:10	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 19:10	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 19:10	67-66-3	
Chloromethane	**0.23J**	ug/L	1.0	0.080	1		01/14/16 19:10	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 19:10	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 19:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 19:10	107-06-2	
1,1-Dichloroethene	**1.9**	ug/L	1.0	0.20	1		01/14/16 19:10	75-35-4	
cis-1,2-Dichloroethene	**28.7**	ug/L	1.0	0.080	1		01/14/16 19:10	156-59-2	
trans-1,2-Dichloroethene	**0.24J**	ug/L	1.0	0.20	1		01/14/16 19:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 19:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 19:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 19:10	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 19:10	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 19:10	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 19:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 19:10	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 19:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 19:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 19:10	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 19:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 19:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 19:10	79-00-5	
Trichloroethene	**312**	ug/L	5.0	0.85	5		01/15/16 11:27	79-01-6	
Vinyl chloride	**0.67J**	ug/L	1.0	0.13	1		01/14/16 19:10	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 19:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/14/16 19:10	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/14/16 19:10	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/14/16 19:10	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 19:10		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-58R-201601 **Lab ID: 60211085020** Collected: 01/12/16 10:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**35.3**	mg/L	20.0	2.0	1		01/21/16 14:07		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:07		
Alkalinity, Total as CaCO3	**35.3**	mg/L	20.0	2.0	1		01/21/16 14:07		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**7.0**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.5**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**228**	mg/L	20.0	10.0	20		01/15/16 20:17	16887-00-6	
Sulfate	**1.2**	mg/L	1.0	0.24	1		01/15/16 20:00	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:54	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/13/16 15:20		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 15:20		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/13/16 15:20		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**249**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/21/16 00:25	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.043**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:16		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-88-201601 **Lab ID: 60211085021** Collected: 01/12/16 13:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 16:19	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**813**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:22	7439-89-6	
Manganese	**496**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:22	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 18:12	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 18:12	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 18:12	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 18:12	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 18:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 18:12	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 18:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 18:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 18:12	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 18:12	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 18:12	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/14/16 18:12	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 18:12	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 18:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 18:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 18:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 18:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 18:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 18:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 18:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 18:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 18:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 18:12	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 18:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 18:12	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 18:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 18:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 18:12	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 18:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 18:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 18:12	79-00-5	
Trichloroethene	**0.58J**	ug/L	1.0	0.17	1		01/14/16 18:12	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 18:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 18:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/14/16 18:12	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		01/14/16 18:12	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/14/16 18:12	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 18:12		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-88-201601 **Lab ID: 60211085021** Collected: 01/12/16 13:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**132**	mg/L	20.0	2.0	1		01/21/16 14:11		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:11		
Alkalinity, Total as CaCO3	**132**	mg/L	20.0	2.0	1		01/21/16 14:11		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/12/16 23:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**35.7**	mg/L	5.0	2.5	5		01/15/16 20:34	16887-00-6	
Sulfate	**5.2**	mg/L	1.0	0.24	1		01/15/16 21:26	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:55	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/13/16 14:56		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:56		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/13/16 14:56		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**341**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**1.9**	mg/L	1.0	0.50	1		01/21/16 01:04	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.055**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:16		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-20-201601 **Lab ID: 60211085022** Collected: 01/12/16 15:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 17:26	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**31.4J**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:24	7439-89-6	
Manganese	**8.9**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:24	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 18:27	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 18:27	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 18:27	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 18:27	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 18:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 18:27	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 18:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 18:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 18:27	108-90-7	R1
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 18:27	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 18:27	67-66-3	
Chloromethane	**0.088J**	ug/L	1.0	0.080	1		01/14/16 18:27	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 18:27	124-48-1	R1
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 18:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 18:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 18:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 18:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 18:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 18:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 18:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 18:27	10061-02-6	R1
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 18:27	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 18:27	591-78-6	M1
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 18:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 18:27	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 18:27	100-42-5	M1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 18:27	79-34-5	R1
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 18:27	127-18-4	R1
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 18:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 18:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 18:27	79-00-5	R1
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 18:27	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 18:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 18:27	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/14/16 18:27	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/14/16 18:27	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/14/16 18:27	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 18:27		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-20-201601 **Lab ID: 60211085022** Collected: 01/12/16 15:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**51.9**	mg/L	20.0	2.0	1		01/21/16 14:15		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:15		
Alkalinity, Total as CaCO3	**51.9**	mg/L	20.0	2.0	1		01/21/16 14:15		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/12/16 23:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.7**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**98.7**	mg/L	5.0	2.5	5		01/15/16 22:35	16887-00-6	
Sulfate	**18.0**	mg/L	2.0	0.47	2		01/15/16 21:43	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:56	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.69**	mg/L	0.10	0.014	1		01/13/16 14:57		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:57		
Nitrogen, NO2 plus NO3	**0.69**	mg/L	0.10	0.014	1		01/13/16 14:57		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**235**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/21/16 15:15	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.040**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:17		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-63R-201601 **Lab ID: 60211085023** Collected: 01/12/16 09:10 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 16:30	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**219**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:35	7439-89-6	
Manganese	**610**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:35	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 18:41	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 18:41	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 18:41	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 18:41	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 18:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 18:41	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 18:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 18:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 18:41	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 18:41	75-00-3	
Chloroform	**0.65J**	ug/L	1.0	0.14	1		01/14/16 18:41	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/14/16 18:41	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 18:41	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 18:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 18:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 18:41	75-35-4	
cis-1,2-Dichloroethene	**0.39J**	ug/L	1.0	0.080	1		01/14/16 18:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 18:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 18:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 18:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 18:41	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 18:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 18:41	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 18:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 18:41	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 18:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 18:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 18:41	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 18:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 18:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 18:41	79-00-5	
Trichloroethene	**3.2**	ug/L	1.0	0.17	1		01/14/16 18:41	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 18:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 18:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	80-120		1		01/14/16 18:41	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/14/16 18:41	17060-07-0	
Toluene-d8 (S)	104	%	80-120		1		01/14/16 18:41	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 18:41		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-63R-201601 **Lab ID: 60211085023** Collected: 01/12/16 09:10 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**63.4**	mg/L	20.0	2.0	1		01/21/16 14:36		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:36		
Alkalinity, Total as CaCO3	**63.4**	mg/L	20.0	2.0	1		01/21/16 14:36		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/12/16 23:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.9**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**115**	mg/L	10.0	5.0	10		01/15/16 23:43	16887-00-6	
Sulfate	**7.5**	mg/L	1.0	0.24	1		01/15/16 23:26	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 12:00	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.11**	mg/L	0.10	0.014	1		01/13/16 14:59		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:59		
Nitrogen, NO2 plus NO3	**0.11**	mg/L	0.10	0.014	1		01/13/16 14:59		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**205**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.53J**	mg/L	1.0	0.50	1		01/21/16 01:17	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.032**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:19		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-22-201601 **Lab ID: 60211085024** Collected: 01/12/16 15:25 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 16:41	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**34.7J**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:37	7439-89-6	
Manganese	**98.5**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:37	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 22:48	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 22:48	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 22:48	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 22:48	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 22:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 22:48	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 22:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 22:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 22:48	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 22:48	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 22:48	67-66-3	
Chloromethane	**0.14J**	ug/L	1.0	0.080	1		01/14/16 22:48	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 22:48	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 22:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 22:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 22:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 22:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 22:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 22:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 22:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 22:48	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 22:48	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 22:48	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 22:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 22:48	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 22:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 22:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 22:48	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 22:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 22:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 22:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 22:48	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 22:48	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 22:48	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/14/16 22:48	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/14/16 22:48	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/14/16 22:48	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 22:48		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-22-201601 **Lab ID: 60211085024** Collected: 01/12/16 15:25 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**51.6**	mg/L	20.0	2.0	1		01/21/16 14:39		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:39		
Alkalinity, Total as CaCO3	**51.6**	mg/L	20.0	2.0	1		01/21/16 14:39		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/27/16 00:00	7439-89-6	1e
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.3**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.0**	mg/L	1.0	0.50	1		01/16/16 00:01	16887-00-6	
Sulfate	**12.9**	mg/L	1.0	0.24	1		01/16/16 00:01	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 12:04	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/13/16 15:00		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 15:00		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/13/16 15:00		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**517**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.67J**	mg/L	1.0	0.50	1		01/21/16 01:30	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.028J**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:19		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-14-201601 **Lab ID: 60211085025** Collected: 01/12/16 15:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 16:52	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**145**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:39	7439-89-6	
Manganese	**11.6**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:39	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 23:03	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 23:03	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 23:03	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 23:03	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 23:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 23:03	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 23:03	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 23:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 23:03	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 23:03	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 23:03	67-66-3	
Chloromethane	**0.17J**	ug/L	1.0	0.080	1		01/14/16 23:03	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 23:03	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 23:03	75-34-3	
1,2-Dichloroethane	**0.62J**	ug/L	1.0	0.12	1		01/14/16 23:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 23:03	75-35-4	
cis-1,2-Dichloroethene	**10**	ug/L	1.0	0.080	1		01/14/16 23:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 23:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 23:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 23:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 23:03	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 23:03	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 23:03	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 23:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 23:03	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 23:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 23:03	79-34-5	
Tetrachloroethene	**18.6**	ug/L	1.0	0.10	1		01/14/16 23:03	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 23:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 23:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 23:03	79-00-5	
Trichloroethene	**4.3**	ug/L	1.0	0.17	1		01/14/16 23:03	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 23:03	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 23:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/14/16 23:03	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/14/16 23:03	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/14/16 23:03	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 23:03		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-14-201601 **Lab ID: 60211085025** Collected: 01/12/16 15:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**38.5**	mg/L	20.0	2.0	1		01/21/16 14:44		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:44		
Alkalinity, Total as CaCO3	**38.5**	mg/L	20.0	2.0	1		01/21/16 14:44		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/12/16 23:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.8**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.2**	mg/L	1.0	0.50	1		01/16/16 00:52	16887-00-6	
Sulfate	**11.5**	mg/L	1.0	0.24	1		01/16/16 00:52	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 12:05	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.48**	mg/L	0.10	0.014	1		01/13/16 15:01		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 15:01		
Nitrogen, NO2 plus NO3	**0.48**	mg/L	0.10	0.014	1		01/13/16 15:01		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**143**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.71J**	mg/L	1.0	0.50	1		01/21/16 01:43	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.055**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:20		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-90-201601 **Lab ID: 60211085026** Collected: 01/12/16 11:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 17:59	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**1840**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:42	7439-89-6	
Manganese	**248**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:42	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 23:17	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 23:17	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 23:17	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 23:17	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 23:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 23:17	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 23:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 23:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 23:17	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 23:17	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 23:17	67-66-3	
Chloromethane	**0.10J**	ug/L	1.0	0.080	1		01/14/16 23:17	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 23:17	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 23:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 23:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 23:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 23:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 23:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 23:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 23:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 23:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 23:17	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 23:17	591-78-6	L3,M0
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 23:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 23:17	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 23:17	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 23:17	79-34-5	R1
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 23:17	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 23:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 23:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 23:17	79-00-5	
Trichloroethene	**0.25J**	ug/L	1.0	0.17	1		01/14/16 23:17	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 23:17	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 23:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/14/16 23:17	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/14/16 23:17	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/14/16 23:17	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 23:17		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-90-201601 **Lab ID: 60211085026** Collected: 01/12/16 11:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**171**	mg/L	20.0	2.0	1		01/21/16 14:48		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:48		
Alkalinity, Total as CaCO3	**171**	mg/L	20.0	2.0	1		01/21/16 14:48		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.98**	mg/L	0.20		1		01/12/16 23:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.2**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**94.9**	mg/L	10.0	5.0	10		01/16/16 01:44	16887-00-6	
Sulfate	**34.4**	mg/L	5.0	1.2	5		01/16/16 01:09	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 12:06	7664-41-7	M1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/13/16 15:01		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 15:01		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/13/16 15:01		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**381**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**4.1**	mg/L	1.0	0.50	1		01/25/16 12:33	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.11**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:20		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-2-201601 **Lab ID: 60211085027** Collected: 01/12/16 15:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 17:03	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**733**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:48	7439-89-6	
Manganese	**17.4**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:48	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 23:32	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 23:32	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 23:32	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 23:32	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 23:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 23:32	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 23:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 23:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 23:32	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 23:32	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 23:32	67-66-3	
Chloromethane	**0.22J**	ug/L	1.0	0.080	1		01/14/16 23:32	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 23:32	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 23:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 23:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 23:32	75-35-4	
cis-1,2-Dichloroethene	**0.42J**	ug/L	1.0	0.080	1		01/14/16 23:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 23:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 23:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 23:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 23:32	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 23:32	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 23:32	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 23:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 23:32	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 23:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 23:32	79-34-5	
Tetrachloroethene	**0.28J**	ug/L	1.0	0.10	1		01/14/16 23:32	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 23:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 23:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 23:32	79-00-5	
Trichloroethene	**0.21J**	ug/L	1.0	0.17	1		01/14/16 23:32	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 23:32	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 23:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/14/16 23:32	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/14/16 23:32	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/14/16 23:32	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 23:32		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-2-201601 **Lab ID: 60211085027** Collected: 01/12/16 15:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**60.7**	mg/L	20.0	2.0	1		01/21/16 14:58		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:58		
Alkalinity, Total as CaCO3	**60.7**	mg/L	20.0	2.0	1		01/21/16 14:58		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.29**	mg/L	0.20		1		01/12/16 23:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:12	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**44.6**	mg/L	10.0	5.0	10		01/16/16 02:35	16887-00-6	
Sulfate	**15.4**	mg/L	1.0	0.24	1		01/16/16 02:18	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 12:08	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.87**	mg/L	0.10	0.014	1		01/13/16 15:02		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 15:02		
Nitrogen, NO2 plus NO3	**0.87**	mg/L	0.10	0.014	1		01/13/16 15:02		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**154**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/21/16 01:56	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.18**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:21		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-4-201601 **Lab ID: 60211085028** Collected: 01/12/16 13:25 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 17:14	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**2350**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:50	7439-89-6	
Manganese	**3420**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:50	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 23:46	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 23:46	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 23:46	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 23:46	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 23:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 23:46	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 23:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 23:46	56-23-5	
Chlorobenzene	**0.81J**	ug/L	1.0	0.21	1		01/14/16 23:46	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 23:46	75-00-3	
Chloroform	**0.20J**	ug/L	1.0	0.14	1		01/14/16 23:46	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/14/16 23:46	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 23:46	124-48-1	
1,1-Dichloroethane	**0.20J**	ug/L	1.0	0.050	1		01/14/16 23:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 23:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 23:46	75-35-4	
cis-1,2-Dichloroethene	**2.5**	ug/L	1.0	0.080	1		01/14/16 23:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 23:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 23:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 23:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 23:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 23:46	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 23:46	591-78-6	L3
Methylene chloride	**3.3**	ug/L	1.0	0.15	1		01/14/16 23:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 23:46	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 23:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 23:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 23:46	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 23:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 23:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 23:46	79-00-5	
Trichloroethene	**1.5**	ug/L	1.0	0.17	1		01/14/16 23:46	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 23:46	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 23:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/14/16 23:46	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		01/14/16 23:46	17060-07-0	
Toluene-d8 (S)	104	%	80-120		1		01/14/16 23:46	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 23:46		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-4-201601 **Lab ID: 60211085028** Collected: 01/12/16 13:25 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**81.1**	mg/L	20.0	2.0	1		01/21/16 15:02		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 15:02		
Alkalinity, Total as CaCO3	**81.1**	mg/L	20.0	2.0	1		01/21/16 15:02		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**2.2**	mg/L	0.20		1		01/12/16 23:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.4**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:12	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.2**	mg/L	1.0	0.50	1		01/16/16 02:53	16887-00-6	
Sulfate	**15.1**	mg/L	1.0	0.24	1		01/16/16 02:53	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.14**	mg/L	0.10	0.046	1		01/19/16 12:10	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/13/16 15:05		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 15:05		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/13/16 15:05		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**141**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**7.8**	mg/L	1.0	0.50	1		01/21/16 15:41	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.099**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:21		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-28-201601 **Lab ID: 60211085029** Collected: 01/12/16 11:50 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 18:32	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**203**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:53	7439-89-6	
Manganese	**30.0**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:53	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 00:01	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 00:01	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 00:01	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 00:01	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 00:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 00:01	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 00:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 00:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 00:01	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:01	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 00:01	67-66-3	
Chloromethane	**0.27J**	ug/L	1.0	0.080	1		01/15/16 00:01	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 00:01	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 00:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 00:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 00:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 00:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 00:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 00:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 00:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 00:01	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 00:01	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 00:01	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 00:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 00:01	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 00:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 00:01	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 00:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 00:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 00:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 00:01	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 00:01	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 00:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	80-120		1		01/15/16 00:01	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/15/16 00:01	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 00:01	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 00:01		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-28-201601 **Lab ID: 60211085029** Collected: 01/12/16 11:50 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**89.1**	mg/L	20.0	2.0	1		01/25/16 09:39		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 09:39		
Alkalinity, Total as CaCO3	**89.1**	mg/L	20.0	2.0	1		01/25/16 09:39		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.20**	mg/L	0.20		1		01/12/16 23:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:12	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**16.9**	mg/L	2.0	1.0	2		01/18/16 03:58	16887-00-6	
Sulfate	**36.2**	mg/L	2.0	0.47	2		01/18/16 03:58	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 12:11	7664-41-7	M1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/13/16 15:06		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 15:06		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/13/16 15:06		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**217**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.65J**	mg/L	1.0	0.50	1		01/25/16 13:00	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.19**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:21		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: DUP-07-201601 **Lab ID: 60211085030** Collected: 01/12/16 11:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 00:15	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 00:15	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 00:15	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 00:15	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 00:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 00:15	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 00:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 00:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 00:15	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:15	75-00-3	
Chloroform	**0.81J**	ug/L	1.0	0.14	1		01/15/16 00:15	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/15/16 00:15	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 00:15	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 00:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 00:15	107-06-2	
1,1-Dichloroethene	**0.30J**	ug/L	1.0	0.20	1		01/15/16 00:15	75-35-4	
cis-1,2-Dichloroethene	**40.1**	ug/L	1.0	0.080	1		01/15/16 00:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 00:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 00:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 00:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 00:15	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 00:15	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 00:15	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 00:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 00:15	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 00:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 00:15	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 00:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 00:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 00:15	79-00-5	
Trichloroethene	**56.6**	ug/L	1.0	0.17	1		01/15/16 00:15	79-01-6	
Vinyl chloride	**0.35J**	ug/L	1.0	0.13	1		01/15/16 00:15	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 00:15	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/15/16 00:15	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		01/15/16 00:15	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		01/15/16 00:15	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 00:15		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: DUP-06-201601 **Lab ID: 60211085031** Collected: 01/12/16 09:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 00:30	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 00:30	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 00:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 00:30	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 00:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 00:30	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 00:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 00:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 00:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:30	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 00:30	67-66-3	
Chloromethane	**0.14J**	ug/L	1.0	0.080	1		01/15/16 00:30	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 00:30	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 00:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 00:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 00:30	75-35-4	
cis-1,2-Dichloroethene	**0.22J**	ug/L	1.0	0.080	1		01/15/16 00:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 00:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 00:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 00:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 00:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 00:30	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 00:30	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 00:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 00:30	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 00:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 00:30	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 00:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 00:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 00:30	79-00-5	
Trichloroethene	**0.28J**	ug/L	1.0	0.17	1		01/15/16 00:30	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 00:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 00:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/15/16 00:30	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/15/16 00:30	17060-07-0	
Toluene-d8 (S)	104	%	80-120		1		01/15/16 00:30	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 00:30		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: DUP-05-201601 **Lab ID: 60211085032** Collected: 01/12/16 10:55 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 00:44	67-64-1	L3
Benzene	**0.17J**	ug/L	1.0	0.060	1		01/15/16 00:44	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 00:44	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 00:44	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 00:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 00:44	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 00:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 00:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 00:44	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:44	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 00:44	67-66-3	
Chloromethane	**0.24J**	ug/L	1.0	0.080	1		01/15/16 00:44	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 00:44	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 00:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 00:44	107-06-2	
1,1-Dichloroethene	**0.28J**	ug/L	1.0	0.20	1		01/15/16 00:44	75-35-4	
cis-1,2-Dichloroethene	**3.3**	ug/L	1.0	0.080	1		01/15/16 00:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 00:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 00:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 00:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 00:44	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 00:44	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 00:44	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 00:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 00:44	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 00:44	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 00:44	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 00:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 00:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 00:44	79-00-5	
Trichloroethene	**135**	ug/L	1.0	0.17	1		01/15/16 00:44	79-01-6	
Vinyl chloride	**0.18J**	ug/L	1.0	0.13	1		01/15/16 00:44	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 00:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/15/16 00:44	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/15/16 00:44	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/15/16 00:44	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 00:44		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: DUP-10-201601 **Lab ID: 60211085033** Collected: 01/12/16 10:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 00:59	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 00:59	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 00:59	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 00:59	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 00:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 00:59	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 00:59	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 00:59	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 00:59	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:59	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 00:59	67-66-3	
Chloromethane	**0.32J**	ug/L	1.0	0.080	1		01/15/16 00:59	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 00:59	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 00:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 00:59	107-06-2	
1,1-Dichloroethene	**1.8**	ug/L	1.0	0.20	1		01/15/16 00:59	75-35-4	
cis-1,2-Dichloroethene	**29.4**	ug/L	1.0	0.080	1		01/15/16 00:59	156-59-2	
trans-1,2-Dichloroethene	**0.25J**	ug/L	1.0	0.20	1		01/15/16 00:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 00:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 00:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 00:59	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 00:59	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 00:59	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 00:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 00:59	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 00:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 00:59	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 00:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 00:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 00:59	79-00-5	
Trichloroethene	**319**	ug/L	5.0	0.85	5		01/15/16 11:41	79-01-6	
Vinyl chloride	**0.66J**	ug/L	1.0	0.13	1		01/15/16 00:59	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 00:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/15/16 00:59	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/15/16 00:59	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/15/16 00:59	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 00:59		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: EB-04-201601 **Lab ID: 60211085034** Collected: 01/12/16 16:45 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 22:19	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 22:19	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 22:19	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 22:19	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 22:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 22:19	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 22:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 22:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 22:19	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 22:19	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 22:19	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/14/16 22:19	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 22:19	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 22:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 22:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 22:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 22:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 22:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 22:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 22:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 22:19	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 22:19	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 22:19	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 22:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 22:19	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 22:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 22:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 22:19	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 22:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 22:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 22:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 22:19	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 22:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 22:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/14/16 22:19	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/14/16 22:19	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		01/14/16 22:19	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 22:19		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: EB-03-201601 **Lab ID: 60211085035** Collected: 01/12/16 17:10 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 22:34	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 22:34	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 22:34	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 22:34	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 22:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 22:34	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 22:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 22:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 22:34	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 22:34	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 22:34	67-66-3	
Chloromethane	**0.20J**	ug/L	1.0	0.080	1		01/14/16 22:34	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 22:34	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 22:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 22:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 22:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 22:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 22:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 22:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 22:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 22:34	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 22:34	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 22:34	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 22:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 22:34	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 22:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 22:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 22:34	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 22:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 22:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 22:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 22:34	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 22:34	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 22:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/14/16 22:34	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		01/14/16 22:34	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/14/16 22:34	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 22:34		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: TB-07-201601 **Lab ID: 60211085036** Collected: 01/12/16 08:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 09:59	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 09:59	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 09:59	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 09:59	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 09:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 09:59	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 09:59	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 09:59	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 09:59	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 09:59	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 09:59	67-66-3	
Chloromethane	**0.13J**	ug/L	1.0	0.080	1		01/15/16 09:59	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 09:59	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 09:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 09:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 09:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 09:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 09:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 09:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 09:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 09:59	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 09:59	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 09:59	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 09:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 09:59	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 09:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 09:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 09:59	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 09:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 09:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 09:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 09:59	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 09:59	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 09:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/15/16 09:59	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/15/16 09:59	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/15/16 09:59	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 09:59		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: TB-08-2016021 **Lab ID: 60211085037** Collected: 01/12/16 08:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 10:14	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 10:14	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 10:14	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 10:14	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 10:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 10:14	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 10:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 10:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 10:14	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 10:14	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 10:14	67-66-3	
Chloromethane	**0.15J**	ug/L	1.0	0.080	1		01/15/16 10:14	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 10:14	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 10:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 10:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 10:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 10:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 10:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 10:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 10:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 10:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 10:14	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 10:14	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 10:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 10:14	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 10:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 10:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 10:14	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 10:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 10:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 10:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 10:14	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 10:14	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 10:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	80-120		1		01/15/16 10:14	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/15/16 10:14	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/15/16 10:14	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 10:14		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: TB-09-2016021 **Lab ID: 60211085038** Collected: 01/12/16 08:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 10:28	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 10:28	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 10:28	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 10:28	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 10:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 10:28	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 10:28	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 10:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 10:28	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 10:28	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 10:28	67-66-3	
Chloromethane	**0.35J**	ug/L	1.0	0.080	1		01/15/16 10:28	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 10:28	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 10:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 10:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 10:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 10:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 10:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 10:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 10:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 10:28	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 10:28	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 10:28	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 10:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 10:28	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 10:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 10:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 10:28	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 10:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 10:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 10:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 10:28	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 10:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 10:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/15/16 10:28	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/15/16 10:28	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 10:28	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 10:28		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: TB-10-2016021 **Lab ID: 60211085039** Collected: 01/12/16 08:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 10:43	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 10:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 10:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 10:43	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 10:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 10:43	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 10:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 10:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 10:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 10:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 10:43	67-66-3	
Chloromethane	**0.28J**	ug/L	1.0	0.080	1		01/15/16 10:43	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 10:43	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 10:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 10:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 10:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 10:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 10:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 10:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 10:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 10:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 10:43	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 10:43	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 10:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 10:43	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 10:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 10:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 10:43	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 10:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 10:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 10:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 10:43	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 10:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 10:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/15/16 10:43	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/15/16 10:43	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/15/16 10:43	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 10:43		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: TB-11-2016021 **Lab ID: 60211085040** Collected: 01/12/16 08:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 10:57	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 10:57	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 10:57	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 10:57	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 10:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 10:57	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 10:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 10:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 10:57	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 10:57	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 10:57	67-66-3	
Chloromethane	**0.23J**	ug/L	1.0	0.080	1		01/15/16 10:57	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 10:57	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 10:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 10:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 10:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 10:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 10:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 10:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 10:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 10:57	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 10:57	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 10:57	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 10:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 10:57	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 10:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 10:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 10:57	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 10:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 10:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 10:57	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 10:57	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 10:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 10:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/15/16 10:57	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/15/16 10:57	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 10:57	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 10:57		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: TB-12-2016021 **Lab ID: 60211085041** Collected: 01/12/16 08:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 15:49	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 15:49	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 15:49	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 15:49	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 15:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 15:49	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 15:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 15:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 15:49	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 15:49	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 15:49	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/15/16 15:49	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 15:49	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 15:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 15:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 15:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 15:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 15:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 15:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 15:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 15:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 15:49	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 15:49	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 15:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 15:49	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 15:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 15:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 15:49	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 15:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 15:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 15:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 15:49	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 15:49	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 15:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/15/16 15:49	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		01/15/16 15:49	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/15/16 15:49	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 15:49		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: TB-13-2016021 **Lab ID: 60211085042** Collected: 01/12/16 08:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 16:04	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 16:04	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 16:04	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 16:04	75-25-2	
Bromomethane	**1.6J**	ug/L	5.0	0.16	1		01/15/16 16:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 16:04	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 16:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 16:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 16:04	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 16:04	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 16:04	67-66-3	
Chloromethane	**0.32J**	ug/L	1.0	0.080	1		01/15/16 16:04	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 16:04	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 16:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 16:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 16:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 16:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 16:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 16:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 16:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 16:04	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 16:04	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 16:04	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 16:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 16:04	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 16:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 16:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 16:04	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 16:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 16:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 16:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 16:04	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 16:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 16:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/15/16 16:04	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/15/16 16:04	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/15/16 16:04	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 16:04		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: TB-14-2016021 **Lab ID: 60211085043** Collected: 01/12/16 08:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 16:18	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 16:18	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 16:18	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 16:18	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 16:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 16:18	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 16:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 16:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 16:18	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 16:18	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 16:18	67-66-3	
Chloromethane	**0.24J**	ug/L	1.0	0.080	1		01/15/16 16:18	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 16:18	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 16:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 16:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 16:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 16:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 16:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 16:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 16:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 16:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 16:18	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 16:18	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 16:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 16:18	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 16:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 16:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 16:18	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 16:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 16:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 16:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 16:18	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 16:18	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 16:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		01/15/16 16:18	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/15/16 16:18	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 16:18	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 16:18		

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: GCSV/4882 Analysis Method: EPA 8015 - Alcohol
QC Batch Method: EPA 8015 - Alcohol Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020

METHOD BLANK: 195446 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/15/16 10:09	

LABORATORY CONTROL SAMPLE: 195447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	95400	95	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195448 195449

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	105000	95300	105	95	40-140	10	40	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195450 195451

Parameter	Units	60211085012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	96400	99800	96	100	40-140	3	40	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: GCSV/4883 Analysis Method: EPA 8015 - Alcohol
QC Batch Method: EPA 8015 - Alcohol Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

METHOD BLANK: 195452 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/15/16 10:20	

LABORATORY CONTROL SAMPLE: 195453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	101000	101	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195454 195455

Parameter	Units	60211085022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	110000	113000	110	113	40-140	3	40	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195456 195457

Parameter	Units	60211085026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	106000	114000	106	114	40-140	7	40	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195458 195459

Parameter	Units	60211085029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	115000	114000	115	114	40-140	1	40	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MPRP/34588 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018

METHOD BLANK: 1696910 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	51.7	50.0	9.0	01/21/16 12:06	
Manganese	ug/L	ND	5.0	2.4	01/21/16 12:06	

LABORATORY CONTROL SAMPLE: 1696911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9450	94	80-120	
Manganese	ug/L	1000	952	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696912 1696913

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	138			10200	10300				1	20	
Manganese	ug/L	116	1000	1000	1110	1110	99	100	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696914 1696915

Parameter	Units	60211085012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	399			10400	10400				0	20	
Manganese	ug/L	259	1000	1000	1280	1280	102	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MPRP/34589 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60211085019, 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

METHOD BLANK: 1696918 Matrix: Water
Associated Lab Samples: 60211085019, 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	9.0	01/21/16 12:15	
Manganese	ug/L	ND	5.0	2.4	01/21/16 12:15	

LABORATORY CONTROL SAMPLE: 1696919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9880	99	80-120	
Manganese	ug/L	1000	984	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696920 1696921

Parameter	Units	60211085022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	31.4J	10000	10000	9910	10000	99	100	75-125	1	20	
Manganese	ug/L	8.9	1000	1000	1000	1000	99	99	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696922 1696923

Parameter	Units	60211085026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	1840	10000	10000	11600	11800	97	100	75-125	2	20	
Manganese	ug/L	248	1000	1000	1200	1220	95	98	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696924 1696925

Parameter	Units	60211085029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	203	10000	10000	9950	10000	97	98	75-125	1	20	
Manganese	ug/L	30.0	1000	1000	1010	1010	98	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MPRP/34682 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60211085002, 60211085003, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085016, 60211085017

METHOD BLANK: 1700604 Matrix: Water
Associated Lab Samples: 60211085002, 60211085003, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085016, 60211085017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	9.0	01/22/16 12:19	

LABORATORY CONTROL SAMPLE: 1700605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9780	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1700606 1700607

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	138	10000	10000	9680	9930	95	98	75-125	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1700608 1700609

Parameter	Units	60211085012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	399	10000	10000	10000	10200	96	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MSV/73748 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085007, 60211085008, 60211085009

METHOD BLANK: 1696916 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085007, 60211085008, 60211085009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/14/16 09:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/14/16 09:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/14/16 09:29	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/14/16 09:29	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/14/16 09:29	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/14/16 09:29	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/14/16 09:29	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/14/16 09:29	
2-Hexanone	ug/L	ND	10.0	1.2	01/14/16 09:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/14/16 09:29	
Acetone	ug/L	ND	10.0	1.9	01/14/16 09:29	
Benzene	ug/L	ND	1.0	0.060	01/14/16 09:29	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/14/16 09:29	
Bromoform	ug/L	ND	1.0	0.070	01/14/16 09:29	
Bromomethane	ug/L	ND	5.0	0.16	01/14/16 09:29	
Carbon disulfide	ug/L	ND	5.0	0.12	01/14/16 09:29	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/14/16 09:29	
Chlorobenzene	ug/L	ND	1.0	0.21	01/14/16 09:29	
Chloroethane	ug/L	ND	1.0	0.15	01/14/16 09:29	
Chloroform	ug/L	ND	1.0	0.14	01/14/16 09:29	
Chloromethane	ug/L	0.29J	1.0	0.080	01/14/16 09:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/14/16 09:29	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/14/16 09:29	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/14/16 09:29	
Ethylbenzene	ug/L	ND	1.0	0.18	01/14/16 09:29	
Methylene chloride	ug/L	ND	1.0	0.15	01/14/16 09:29	
Styrene	ug/L	ND	1.0	0.12	01/14/16 09:29	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/14/16 09:29	
Toluene	ug/L	ND	1.0	0.17	01/14/16 09:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/14/16 09:29	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/14/16 09:29	
Trichloroethene	ug/L	ND	1.0	0.17	01/14/16 09:29	
Vinyl chloride	ug/L	ND	1.0	0.13	01/14/16 09:29	
Xylene (Total)	ug/L	ND	3.0	0.42	01/14/16 09:29	
1,2-Dichloroethane-d4 (S)	%	106	80-120		01/14/16 09:29	
4-Bromofluorobenzene (S)	%	98	80-120		01/14/16 09:29	
Toluene-d8 (S)	%	100	80-120		01/14/16 09:29	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

LABORATORY CONTROL SAMPLE: 1696917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.2	96	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	97	73-121	
1,1,2-Trichloroethane	ug/L	20	18.4	92	80-120	
1,1-Dichloroethane	ug/L	20	20.9	104	80-120	
1,1-Dichloroethene	ug/L	20	18.4	92	80-120	
1,2-Dichloroethane	ug/L	20	20.1	101	81-120	
1,2-Dichloropropane	ug/L	20	19.7	99	80-120	
2-Butanone (MEK)	ug/L	100	119	119	67-122	
2-Hexanone	ug/L	100	117	117	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	116	116	76-120	
Acetone	ug/L	100	127	127	72-120	L0
Benzene	ug/L	20	20.1	101	80-120	
Bromodichloromethane	ug/L	20	19.3	96	80-120	
Bromoform	ug/L	20	18.3	92	73-138	
Bromomethane	ug/L	20	20.4	102	38-137	
Carbon disulfide	ug/L	20	20.8	104	71-129	
Carbon tetrachloride	ug/L	20	18.5	93	67-146	
Chlorobenzene	ug/L	20	19.5	98	80-120	
Chloroethane	ug/L	20	21.9	110	76-120	
Chloroform	ug/L	20	18.2	91	80-120	
Chloromethane	ug/L	20	18.3	91	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.5	93	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	80-120	
Dibromochloromethane	ug/L	20	19.3	96	80-126	
Ethylbenzene	ug/L	20	20.8	104	80-120	
Methylene chloride	ug/L	20	20.2	101	80-120	
Styrene	ug/L	20	22.5	112	80-123	
Tetrachloroethene	ug/L	20	17.9	89	80-123	
Toluene	ug/L	20	19.7	98	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.1	91	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	80-129	
Trichloroethene	ug/L	20	18.1	90	80-120	
Vinyl chloride	ug/L	20	21.0	105	62-125	
Xylene (Total)	ug/L	60	65.1	108	80-120	
1,2-Dichloroethane-d4 (S)	%			107	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696926 1696927

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	20.4	20.8	102	104	88-124	2	9	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.2	19.3	111	97	78-116	14	13	R1
1,1,2-Trichloroethane	ug/L	ND	20	20	19.1	18.3	95	91	84-112	4	10	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696926 1696927

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/L	ND	20	20	20.6	22.0	103	110	82-121	7	9	
1,1-Dichloroethene	ug/L	ND	20	20	19.1	20.3	96	101	78-124	6	12	
1,2-Dichloroethane	ug/L	ND	20	20	19.5	21.1	98	106	79-121	8	12	
1,2-Dichloropropane	ug/L	ND	20	20	19.6	20.1	98	100	82-119	2	10	
2-Butanone (MEK)	ug/L	ND	100	100	103	109	103	109	66-114	5	13	
2-Hexanone	ug/L	ND	100	100	109	110	109	110	71-116	1	13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	108	114	108	114	72-122	6	12	
Acetone	ug/L	ND	100	100	103	107	103	107	65-113	4	27	
Benzene	ug/L	ND	20	20	21.0	20.9	105	105	46-155	0	13	
Bromodichloromethane	ug/L	ND	20	20	19.6	20.4	98	102	77-127	4	10	
Bromoform	ug/L	ND	20	20	18.9	18.7	95	94	70-125	1	11	
Bromomethane	ug/L	ND	20	20	22.4	25.0	112	125	41-140	11	30	
Carbon disulfide	ug/L	ND	20	20	20.6	22.9	103	114	68-140	10	10	
Carbon tetrachloride	ug/L	ND	20	20	20.2	20.8	101	104	68-147	3	11	
Chlorobenzene	ug/L	ND	20	20	19.7	20.3	99	101	83-121	3	9	
Chloroethane	ug/L	ND	20	20	19.5	21.3	97	107	69-126	9	19	
Chloroform	ug/L	0.15J	20	20	18.8	19.4	93	96	86-119	3	9	
Chloromethane	ug/L	0.19J	20	20	21.2	19.9	105	99	23-168	6	49	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.5	19.8	92	99	85-117	7	10	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.0	20.2	100	101	74-115	1	12	
Dibromochloromethane	ug/L	ND	20	20	20.7	19.6	103	98	65-134	5	11	
Ethylbenzene	ug/L	ND	20	20	20.4	21.6	102	108	51-148	6	14	
Methylene chloride	ug/L	ND	20	20	19.3	20.6	96	103	75-118	7	11	
Styrene	ug/L	ND	20	20	18.9	22.6	95	113	17-174	18	10	R1
Tetrachloroethene	ug/L	ND	20	20	20.1	18.4	101	92	78-127	9	9	
Toluene	ug/L	ND	20	20	21.0	20.0	105	100	47-149	4	16	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.8	19.6	94	98	84-119	4	12	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.4	20.8	107	104	71-120	3	10	
Trichloroethene	ug/L	0.26J	20	20	19.2	19.3	95	95	70-135	1	10	
Vinyl chloride	ug/L	ND	20	20	22.5	23.4	112	117	58-130	4	11	
Xylene (Total)	ug/L	ND	60	60	58.9	67.5	98	112	39-158	14	15	
1,2-Dichloroethane-d4 (S)	%						105	108	80-120			
4-Bromofluorobenzene (S)	%						105	102	80-120			
Toluene-d8 (S)	%						103	99	80-120			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MSV/73750 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085022, 60211085023

METHOD BLANK: 1697069 Matrix: Water
Associated Lab Samples: 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085022, 60211085023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/14/16 16:02	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/14/16 16:02	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/14/16 16:02	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/14/16 16:02	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/14/16 16:02	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/14/16 16:02	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/14/16 16:02	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/14/16 16:02	
2-Hexanone	ug/L	ND	10.0	1.2	01/14/16 16:02	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/14/16 16:02	
Acetone	ug/L	ND	10.0	1.9	01/14/16 16:02	
Benzene	ug/L	ND	1.0	0.060	01/14/16 16:02	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/14/16 16:02	
Bromoform	ug/L	ND	1.0	0.070	01/14/16 16:02	
Bromomethane	ug/L	ND	5.0	0.16	01/14/16 16:02	
Carbon disulfide	ug/L	ND	5.0	0.12	01/14/16 16:02	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/14/16 16:02	
Chlorobenzene	ug/L	ND	1.0	0.21	01/14/16 16:02	
Chloroethane	ug/L	ND	1.0	0.15	01/14/16 16:02	
Chloroform	ug/L	ND	1.0	0.14	01/14/16 16:02	
Chloromethane	ug/L	0.25J	1.0	0.080	01/14/16 16:02	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/14/16 16:02	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/14/16 16:02	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/14/16 16:02	
Ethylbenzene	ug/L	ND	1.0	0.18	01/14/16 16:02	
Methylene chloride	ug/L	ND	1.0	0.15	01/14/16 16:02	
Styrene	ug/L	ND	1.0	0.12	01/14/16 16:02	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/14/16 16:02	
Toluene	ug/L	ND	1.0	0.17	01/14/16 16:02	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/14/16 16:02	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/14/16 16:02	
Trichloroethene	ug/L	ND	1.0	0.17	01/14/16 16:02	
Vinyl chloride	ug/L	ND	1.0	0.13	01/14/16 16:02	
Xylene (Total)	ug/L	ND	3.0	0.42	01/14/16 16:02	
1,2-Dichloroethane-d4 (S)	%	108	80-120		01/14/16 16:02	
4-Bromofluorobenzene (S)	%	100	80-120		01/14/16 16:02	
Toluene-d8 (S)	%	101	80-120		01/14/16 16:02	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

LABORATORY CONTROL SAMPLE: 1697070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.6	98	73-121	
1,1,2-Trichloroethane	ug/L	20	19.2	96	80-120	
1,1-Dichloroethane	ug/L	20	20.2	101	80-120	
1,1-Dichloroethene	ug/L	20	18.1	91	80-120	
1,2-Dichloroethane	ug/L	20	19.8	99	81-120	
1,2-Dichloropropane	ug/L	20	19.3	97	80-120	
2-Butanone (MEK)	ug/L	100	108	108	67-122	
2-Hexanone	ug/L	100	114	114	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	112	112	76-120	
Acetone	ug/L	100	110	110	72-120	
Benzene	ug/L	20	20.4	102	80-120	
Bromodichloromethane	ug/L	20	19.4	97	80-120	
Bromoform	ug/L	20	18.9	94	73-138	
Bromomethane	ug/L	20	18.2	91	38-137	
Carbon disulfide	ug/L	20	19.6	98	71-129	
Carbon tetrachloride	ug/L	20	19.4	97	67-146	
Chlorobenzene	ug/L	20	20.0	100	80-120	
Chloroethane	ug/L	20	19.3	96	76-120	
Chloroform	ug/L	20	18.6	93	80-120	
Chloromethane	ug/L	20	20.8	104	34-165	
cis-1,2-Dichloroethene	ug/L	20	19.1	95	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	80-120	
Dibromochloromethane	ug/L	20	19.4	97	80-126	
Ethylbenzene	ug/L	20	20.2	101	80-120	
Methylene chloride	ug/L	20	19.1	95	80-120	
Styrene	ug/L	20	20.3	101	80-123	
Tetrachloroethene	ug/L	20	19.2	96	80-123	
Toluene	ug/L	20	20.6	103	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.3	91	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.7	103	80-129	
Trichloroethene	ug/L	20	19.4	97	80-120	
Vinyl chloride	ug/L	20	20.7	104	62-125	
Xylene (Total)	ug/L	60	60.0	100	80-120	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697071 1697072

Parameter	Units	60211085012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	19.6	20.9	98	104	88-124	6	9	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.4	20.6	92	103	78-116	12	13	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.7	19.0	89	95	84-112	7	10	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697071 1697072

Parameter	Units	60211085012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/L	5.2	20	20	26.1	26.7	104	108	82-121	3	9	
1,1-Dichloroethene	ug/L	0.60J	20	20	20.2	20.9	98	101	78-124	3	12	
1,2-Dichloroethane	ug/L	ND	20	20	19.8	20.5	99	102	79-121	3	12	
1,2-Dichloropropane	ug/L	ND	20	20	19.1	20.4	96	102	82-119	6	10	
2-Butanone (MEK)	ug/L	ND	100	100	96.1	104	96	104	66-114	8	13	
2-Hexanone	ug/L	ND	100	100	102	109	102	109	71-116	6	13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	105	113	105	113	72-122	7	12	
Acetone	ug/L	ND	100	100	98.2	102	98	102	65-113	4	27	
Benzene	ug/L	ND	20	20	20.1	21.3	101	106	46-155	6	13	
Bromodichloromethane	ug/L	ND	20	20	19.2	20.3	96	102	77-127	6	10	
Bromoform	ug/L	ND	20	20	17.0	18.5	85	93	70-125	9	11	
Bromomethane	ug/L	ND	20	20	18.1	19.4	90	97	41-140	7	30	
Carbon disulfide	ug/L	ND	20	20	20.5	20.8	103	104	68-140	1	10	
Carbon tetrachloride	ug/L	ND	20	20	19.4	20.7	97	104	68-147	6	11	
Chlorobenzene	ug/L	ND	20	20	19.7	20.7	98	104	83-121	5	9	
Chloroethane	ug/L	ND	20	20	19.2	19.0	96	95	69-126	1	19	
Chloroform	ug/L	ND	20	20	18.7	19.1	94	96	86-119	2	9	
Chloromethane	ug/L	ND	20	20	14.5	16.9	73	84	23-168	15	49	
cis-1,2-Dichloroethene	ug/L	6.2	20	20	25.3	25.6	95	97	85-117	1	10	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.9	19.9	94	100	74-115	5	12	
Dibromochloromethane	ug/L	ND	20	20	19.0	20.0	95	100	65-134	5	11	
Ethylbenzene	ug/L	ND	20	20	21.0	21.3	105	106	51-148	1	14	
Methylene chloride	ug/L	ND	20	20	19.7	20.5	99	103	75-118	4	11	
Styrene	ug/L	ND	20	20	0.68J	0.68J	3	3	17-174		10	M1
Tetrachloroethene	ug/L	ND	20	20	17.9	19.5	89	97	78-127	9	9	
Toluene	ug/L	ND	20	20	19.8	21.1	99	106	47-149	7	16	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.3	19.7	92	98	84-119	7	12	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.2	20.7	96	104	71-120	8	10	
Trichloroethene	ug/L	4.2	20	20	24.0	23.2	99	95	70-135	4	10	
Vinyl chloride	ug/L	0.32J	20	20	18.9	19.3	93	95	58-130	3	11	
Xylene (Total)	ug/L	ND	60	60	64.5	65.3	108	109	39-158	1	15	
1,2-Dichloroethane-d4 (S)	%						106	107	80-120			
4-Bromofluorobenzene (S)	%						99	100	80-120			
Toluene-d8 (S)	%						99	100	80-120			
Preservation pH		1.0			1.0	1.0				0		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697073 1697074

Parameter	Units	60211085022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	19.8	20.9	99	105	88-124	6	9	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.4	22.8	92	114	78-116	21	13	R1
1,1,2-Trichloroethane	ug/L	ND	20	20	17.9	20.2	89	101	84-112	12	10	R1

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697073 1697074

Parameter	Units	60211085022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/L	ND	20	20	20.7	22.0	104	110	82-121	6	9	
1,1-Dichloroethene	ug/L	ND	20	20	20.1	18.8	100	94	78-124	6	12	
1,2-Dichloroethane	ug/L	ND	20	20	19.6	20.4	98	102	79-121	4	12	
1,2-Dichloropropane	ug/L	ND	20	20	19.2	20.8	96	104	82-119	8	10	
2-Butanone (MEK)	ug/L	ND	100	100	98.2	104	98	104	66-114	6	13	
2-Hexanone	ug/L	ND	100	100	104	117	104	117	71-116	12	13	M1
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	106	110	106	110	72-122	5	12	
Acetone	ug/L	ND	100	100	97.9	104	98	104	65-113	6	27	
Benzene	ug/L	ND	20	20	20.3	22.0	101	110	46-155	8	13	
Bromodichloromethane	ug/L	ND	20	20	19.3	20.1	97	100	77-127	4	10	
Bromoform	ug/L	ND	20	20	17.5	19.5	88	97	70-125	10	11	
Bromomethane	ug/L	ND	20	20	19.4	19.2	97	96	41-140	1	30	
Carbon disulfide	ug/L	ND	20	20	20.3	20.3	101	101	68-140	0	10	
Carbon tetrachloride	ug/L	ND	20	20	19.4	21.2	97	106	68-147	9	11	
Chlorobenzene	ug/L	ND	20	20	19.4	21.6	97	108	83-121	10	9	R1
Chloroethane	ug/L	ND	20	20	18.2	18.9	91	94	69-126	4	19	
Chloroform	ug/L	ND	20	20	18.6	19.5	93	97	86-119	4	9	
Chloromethane	ug/L	0.088J	20	20	14.4	17.5	72	87	23-168	19	49	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.7	20.3	94	102	85-117	8	10	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.7	20.9	94	104	74-115	11	12	
Dibromochloromethane	ug/L	ND	20	20	18.6	21.2	93	106	65-134	13	11	R1
Ethylbenzene	ug/L	ND	20	20	20.9	21.6	104	108	51-148	4	14	
Methylene chloride	ug/L	ND	20	20	19.4	20.3	97	102	75-118	4	11	
Styrene	ug/L	ND	20	20	0.63J	0.60J	3	3	17-174		10	M1
Tetrachloroethene	ug/L	ND	20	20	18.3	21.4	91	107	78-127	16	9	R1
Toluene	ug/L	ND	20	20	20.0	22.5	100	112	47-149	12	16	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.1	19.7	91	98	84-119	8	12	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.2	22.5	96	113	71-120	16	10	R1
Trichloroethene	ug/L	ND	20	20	18.5	20.0	92	100	70-135	8	10	
Vinyl chloride	ug/L	ND	20	20	18.3	19.4	92	97	58-130	6	11	
Xylene (Total)	ug/L	ND	60	60	64.0	64.3	107	107	39-158	0	15	
1,2-Dichloroethane-d4 (S)	%						107	101	80-120			
4-Bromofluorobenzene (S)	%						101	101	80-120			
Toluene-d8 (S)	%						100	103	80-120			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MSV/73752 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029, 60211085030, 60211085031, 60211085032, 60211085033, 60211085034, 60211085035

METHOD BLANK: 1697129 Matrix: Water
Associated Lab Samples: 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029, 60211085030, 60211085031, 60211085032, 60211085033, 60211085034, 60211085035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/14/16 22:05	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/14/16 22:05	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/14/16 22:05	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/14/16 22:05	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/14/16 22:05	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/14/16 22:05	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/14/16 22:05	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/14/16 22:05	
2-Hexanone	ug/L	ND	10.0	1.2	01/14/16 22:05	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/14/16 22:05	
Acetone	ug/L	ND	10.0	1.9	01/14/16 22:05	
Benzene	ug/L	ND	1.0	0.060	01/14/16 22:05	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/14/16 22:05	
Bromoform	ug/L	ND	1.0	0.070	01/14/16 22:05	
Bromomethane	ug/L	ND	5.0	0.16	01/14/16 22:05	
Carbon disulfide	ug/L	ND	5.0	0.12	01/14/16 22:05	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/14/16 22:05	
Chlorobenzene	ug/L	ND	1.0	0.21	01/14/16 22:05	
Chloroethane	ug/L	ND	1.0	0.15	01/14/16 22:05	
Chloroform	ug/L	ND	1.0	0.14	01/14/16 22:05	
Chloromethane	ug/L	ND	1.0	0.080	01/14/16 22:05	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/14/16 22:05	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/14/16 22:05	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/14/16 22:05	
Ethylbenzene	ug/L	ND	1.0	0.18	01/14/16 22:05	
Methylene chloride	ug/L	ND	1.0	0.15	01/14/16 22:05	
Styrene	ug/L	ND	1.0	0.12	01/14/16 22:05	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/14/16 22:05	
Toluene	ug/L	ND	1.0	0.17	01/14/16 22:05	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/14/16 22:05	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/14/16 22:05	
Trichloroethene	ug/L	ND	1.0	0.17	01/14/16 22:05	
Vinyl chloride	ug/L	ND	1.0	0.13	01/14/16 22:05	
Xylene (Total)	ug/L	ND	3.0	0.42	01/14/16 22:05	
1,2-Dichloroethane-d4 (S)	%	105	80-120		01/14/16 22:05	
4-Bromofluorobenzene (S)	%	101	80-120		01/14/16 22:05	
Toluene-d8 (S)	%	101	80-120		01/14/16 22:05	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

LABORATORY CONTROL SAMPLE: 1697130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.3	97	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	21.4	107	73-121	
1,1,2-Trichloroethane	ug/L	20	18.9	95	80-120	
1,1-Dichloroethane	ug/L	20	20.8	104	80-120	
1,1-Dichloroethene	ug/L	20	18.1	91	80-120	
1,2-Dichloroethane	ug/L	20	20.1	100	81-120	
1,2-Dichloropropane	ug/L	20	19.9	99	80-120	
2-Butanone (MEK)	ug/L	100	110	110	67-122	
2-Hexanone	ug/L	100	122	122	75-121	L0
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	76-120	
Acetone	ug/L	100	122	122	72-120	L0
Benzene	ug/L	20	20.8	104	80-120	
Bromodichloromethane	ug/L	20	19.3	96	80-120	
Bromoform	ug/L	20	19.3	96	73-138	
Bromomethane	ug/L	20	20.1	100	38-137	
Carbon disulfide	ug/L	20	20.2	101	71-129	
Carbon tetrachloride	ug/L	20	19.3	96	67-146	
Chlorobenzene	ug/L	20	20.6	103	80-120	
Chloroethane	ug/L	20	20.6	103	76-120	
Chloroform	ug/L	20	18.2	91	80-120	
Chloromethane	ug/L	20	23.9	120	34-165	
cis-1,2-Dichloroethene	ug/L	20	19.1	96	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	80-120	
Dibromochloromethane	ug/L	20	20.5	102	80-126	
Ethylbenzene	ug/L	20	21.0	105	80-120	
Methylene chloride	ug/L	20	19.8	99	80-120	
Styrene	ug/L	20	21.0	105	80-123	
Tetrachloroethene	ug/L	20	19.8	99	80-123	
Toluene	ug/L	20	21.1	106	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.1	90	80-120	
trans-1,3-Dichloropropene	ug/L	20	21.9	110	80-129	
Trichloroethene	ug/L	20	18.5	92	80-120	
Vinyl chloride	ug/L	20	22.9	114	62-125	
Xylene (Total)	ug/L	60	61.1	102	80-120	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697131 1697132

Parameter	Units	60211085026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	19.8	20.4	99	102	88-124	3	9	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.9	19.2	115	96	78-116	18	13	R1
1,1,2-Trichloroethane	ug/L	ND	20	20	19.7	18.0	98	90	84-112	9	10	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697131 1697132

Parameter	Units	60211085026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/L	ND	20	20	21.5	21.6	107	108	82-121	1	9	
1,1-Dichloroethene	ug/L	ND	20	20	18.8	19.6	94	98	78-124	4	12	
1,2-Dichloroethane	ug/L	ND	20	20	20.0	20.2	100	101	79-121	1	12	
1,2-Dichloropropane	ug/L	ND	20	20	19.9	19.6	99	98	82-119	1	10	
2-Butanone (MEK)	ug/L	ND	100	100	105	103	105	103	66-114	2	13	
2-Hexanone	ug/L	ND	100	100	117	108	117	108	71-116	7	13	M0
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	114	111	114	111	72-122	3	12	
Acetone	ug/L	ND	100	100	105	106	105	106	65-113	1	27	
Benzene	ug/L	ND	20	20	21.3	21.1	106	106	46-155	1	13	
Bromodichloromethane	ug/L	ND	20	20	19.7	19.5	99	98	77-127	1	10	
Bromoform	ug/L	ND	20	20	18.7	18.3	94	92	70-125	2	11	
Bromomethane	ug/L	ND	20	20	18.4	19.8	92	99	41-140	7	30	
Carbon disulfide	ug/L	ND	20	20	19.7	21.3	99	106	68-140	7	10	
Carbon tetrachloride	ug/L	ND	20	20	20.3	20.2	102	101	68-147	0	11	
Chlorobenzene	ug/L	ND	20	20	20.7	20.4	103	102	83-121	1	9	
Chloroethane	ug/L	ND	20	20	19.3	19.2	96	96	69-126	0	19	
Chloroform	ug/L	ND	20	20	18.6	19.2	93	96	86-119	3	9	
Chloromethane	ug/L	0.10J	20	20	17.6	17.3	88	86	23-168	2	49	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.8	19.7	99	99	85-117	0	10	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.8	19.2	99	96	74-115	3	12	
Dibromochloromethane	ug/L	ND	20	20	20.7	19.4	103	97	65-134	6	11	
Ethylbenzene	ug/L	ND	20	20	21.3	21.5	106	107	51-148	1	14	
Methylene chloride	ug/L	ND	20	20	19.8	20.5	99	102	75-118	4	11	
Styrene	ug/L	ND	20	20	20.7	22.1	104	110	17-174	6	10	
Tetrachloroethene	ug/L	ND	20	20	20.5	19.2	103	96	78-127	7	9	
Toluene	ug/L	ND	20	20	21.6	20.6	108	103	47-149	5	16	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.8	19.5	94	97	84-119	4	12	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.5	20.0	108	100	71-120	7	10	
Trichloroethene	ug/L	0.25J	20	20	21.2	19.5	105	96	70-135	8	10	
Vinyl chloride	ug/L	ND	20	20	18.2	19.1	91	96	58-130	5	11	
Xylene (Total)	ug/L	ND	60	60	61.0	65.7	102	109	39-158	7	15	
1,2-Dichloroethane-d4 (S)	%						103	107	80-120			
4-Bromofluorobenzene (S)	%						108	102	80-120			
Toluene-d8 (S)	%						103	102	80-120			
Preservation pH		1.0			1.0	1.0				0		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697133 1697134

Parameter	Units	60211085029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	20.8	20.2	104	101	88-124	3	9	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.7	19.4	98	97	78-116	1	13	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.4	17.9	92	90	84-112	2	10	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697133 1697134

Parameter	Units	60211085029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/L	ND	20	20	21.6	21.1	108	106	82-121	2	9	
1,1-Dichloroethene	ug/L	ND	20	20	20.4	19.8	102	99	78-124	3	12	
1,2-Dichloroethane	ug/L	ND	20	20	21.3	19.7	106	98	79-121	8	12	
1,2-Dichloropropane	ug/L	ND	20	20	20.9	19.2	105	96	82-119	9	10	
2-Butanone (MEK)	ug/L	ND	100	100	109	99.4	109	99	66-114	10	13	
2-Hexanone	ug/L	ND	100	100	109	101	109	101	71-116	7	13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	116	106	116	106	72-122	9	12	
Acetone	ug/L	ND	100	100	109	96.0	109	96	65-113	13	27	
Benzene	ug/L	ND	20	20	21.5	20.4	107	102	46-155	5	13	
Bromodichloromethane	ug/L	ND	20	20	20.5	19.4	103	97	77-127	6	10	
Bromoform	ug/L	ND	20	20	19.2	17.8	96	89	70-125	7	11	
Bromomethane	ug/L	ND	20	20	22.0	18.6	110	93	41-140	17	30	
Carbon disulfide	ug/L	ND	20	20	22.1	20.8	110	104	68-140	6	10	
Carbon tetrachloride	ug/L	ND	20	20	20.6	19.9	103	100	68-147	4	11	
Chlorobenzene	ug/L	ND	20	20	20.5	19.8	102	99	83-121	3	9	
Chloroethane	ug/L	ND	20	20	19.8	18.4	99	92	69-126	7	19	
Chloroform	ug/L	ND	20	20	19.8	19.1	99	95	86-119	4	9	
Chloromethane	ug/L	0.27J	20	20	16.2	15.9	80	78	23-168	2	49	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	19.1	101	96	85-117	6	10	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.6	18.7	103	94	74-115	10	12	
Dibromochloromethane	ug/L	ND	20	20	19.1	19.0	95	95	65-134	1	11	
Ethylbenzene	ug/L	ND	20	20	21.6	21.5	108	107	51-148	1	14	
Methylene chloride	ug/L	ND	20	20	21.0	20.2	105	101	75-118	4	11	
Styrene	ug/L	ND	20	20	23.6	21.8	118	109	17-174	8	10	
Tetrachloroethene	ug/L	ND	20	20	18.6	19.0	93	95	78-127	2	9	
Toluene	ug/L	ND	20	20	20.5	20.9	103	104	47-149	2	16	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.1	19.2	101	96	84-119	5	12	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.0	19.4	100	97	71-120	3	10	
Trichloroethene	ug/L	ND	20	20	19.9	18.6	99	93	70-135	7	10	
Vinyl chloride	ug/L	ND	20	20	19.6	18.9	98	94	58-130	4	11	
Xylene (Total)	ug/L	ND	60	60	67.8	64.5	113	108	39-158	5	15	
1,2-Dichloroethane-d4 (S)	%						108	106	80-120			
4-Bromofluorobenzene (S)	%						98	105	80-120			
Toluene-d8 (S)	%						98	100	80-120			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MSV/73769 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211085006, 60211085020, 60211085033, 60211085036, 60211085037, 60211085038, 60211085039, 60211085040

METHOD BLANK: 1697620 Matrix: Water
Associated Lab Samples: 60211085006, 60211085020, 60211085033, 60211085036, 60211085037, 60211085038, 60211085039, 60211085040

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/15/16 09:45	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/15/16 09:45	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/15/16 09:45	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/15/16 09:45	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 09:45	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/15/16 09:45	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/15/16 09:45	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/15/16 09:45	
2-Hexanone	ug/L	ND	10.0	1.2	01/15/16 09:45	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/15/16 09:45	
Acetone	ug/L	ND	10.0	1.9	01/15/16 09:45	
Benzene	ug/L	ND	1.0	0.060	01/15/16 09:45	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/15/16 09:45	
Bromoform	ug/L	ND	1.0	0.070	01/15/16 09:45	
Bromomethane	ug/L	ND	5.0	0.16	01/15/16 09:45	
Carbon disulfide	ug/L	ND	5.0	0.12	01/15/16 09:45	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/15/16 09:45	
Chlorobenzene	ug/L	ND	1.0	0.21	01/15/16 09:45	
Chloroethane	ug/L	ND	1.0	0.15	01/15/16 09:45	
Chloroform	ug/L	ND	1.0	0.14	01/15/16 09:45	
Chloromethane	ug/L	0.37J	1.0	0.080	01/15/16 09:45	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/15/16 09:45	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/15/16 09:45	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/15/16 09:45	
Ethylbenzene	ug/L	ND	1.0	0.18	01/15/16 09:45	
Methylene chloride	ug/L	ND	1.0	0.15	01/15/16 09:45	
Styrene	ug/L	ND	1.0	0.12	01/15/16 09:45	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/15/16 09:45	
Toluene	ug/L	ND	1.0	0.17	01/15/16 09:45	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 09:45	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/15/16 09:45	
Trichloroethene	ug/L	ND	1.0	0.17	01/15/16 09:45	
Vinyl chloride	ug/L	ND	1.0	0.13	01/15/16 09:45	
Xylene (Total)	ug/L	ND	3.0	0.42	01/15/16 09:45	
1,2-Dichloroethane-d4 (S)	%	106	80-120		01/15/16 09:45	
4-Bromofluorobenzene (S)	%	101	80-120		01/15/16 09:45	
Toluene-d8 (S)	%	99	80-120		01/15/16 09:45	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

LABORATORY CONTROL SAMPLE: 1697621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.0	100	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	73-121	
1,1,2-Trichloroethane	ug/L	20	18.6	93	80-120	
1,1-Dichloroethane	ug/L	20	21.3	107	80-120	
1,1-Dichloroethene	ug/L	20	19.7	99	80-120	
1,2-Dichloroethane	ug/L	20	21.3	106	81-120	
1,2-Dichloropropane	ug/L	20	20.2	101	80-120	
2-Butanone (MEK)	ug/L	100	118	118	67-122	
2-Hexanone	ug/L	100	114	114	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	117	117	76-120	
Acetone	ug/L	100	128	128	72-120	L0
Benzene	ug/L	20	21.3	107	80-120	
Bromodichloromethane	ug/L	20	19.9	100	80-120	
Bromoform	ug/L	20	17.1	86	73-138	
Bromomethane	ug/L	20	24.4	122	38-137	
Carbon disulfide	ug/L	20	22.4	112	71-129	
Carbon tetrachloride	ug/L	20	19.2	96	67-146	
Chlorobenzene	ug/L	20	20.5	103	80-120	
Chloroethane	ug/L	20	21.7	109	76-120	
Chloroform	ug/L	20	19.5	98	80-120	
Chloromethane	ug/L	20	24.1	120	34-165	
cis-1,2-Dichloroethene	ug/L	20	20.3	101	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.7	104	80-120	
Dibromochloromethane	ug/L	20	18.9	94	80-126	
Ethylbenzene	ug/L	20	21.3	106	80-120	
Methylene chloride	ug/L	20	20.7	104	80-120	
Styrene	ug/L	20	23.2	116	80-123	
Tetrachloroethene	ug/L	20	18.6	93	80-123	
Toluene	ug/L	20	20.1	101	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.3	101	80-129	
Trichloroethene	ug/L	20	19.1	96	80-120	
Vinyl chloride	ug/L	20	24.2	121	62-125	
Xylene (Total)	ug/L	60	66.4	111	80-120	
1,2-Dichloroethane-d4 (S)	%			107	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			97	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MSV/73771 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211085041, 60211085042, 60211085043

METHOD BLANK: 1697708 Matrix: Water
Associated Lab Samples: 60211085041, 60211085042, 60211085043

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/15/16 15:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/15/16 15:34	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/15/16 15:34	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/15/16 15:34	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 15:34	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/15/16 15:34	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/15/16 15:34	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/15/16 15:34	
2-Hexanone	ug/L	ND	10.0	1.2	01/15/16 15:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/15/16 15:34	
Acetone	ug/L	ND	10.0	1.9	01/15/16 15:34	
Benzene	ug/L	ND	1.0	0.060	01/15/16 15:34	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/15/16 15:34	
Bromoform	ug/L	ND	1.0	0.070	01/15/16 15:34	
Bromomethane	ug/L	ND	5.0	0.16	01/15/16 15:34	
Carbon disulfide	ug/L	ND	5.0	0.12	01/15/16 15:34	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/15/16 15:34	
Chlorobenzene	ug/L	ND	1.0	0.21	01/15/16 15:34	
Chloroethane	ug/L	ND	1.0	0.15	01/15/16 15:34	
Chloroform	ug/L	ND	1.0	0.14	01/15/16 15:34	
Chloromethane	ug/L	ND	1.0	0.080	01/15/16 15:34	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/15/16 15:34	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/15/16 15:34	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/15/16 15:34	
Ethylbenzene	ug/L	ND	1.0	0.18	01/15/16 15:34	
Methylene chloride	ug/L	ND	1.0	0.15	01/15/16 15:34	
Styrene	ug/L	ND	1.0	0.12	01/15/16 15:34	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/15/16 15:34	
Toluene	ug/L	ND	1.0	0.17	01/15/16 15:34	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 15:34	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/15/16 15:34	
Trichloroethene	ug/L	ND	1.0	0.17	01/15/16 15:34	
Vinyl chloride	ug/L	ND	1.0	0.13	01/15/16 15:34	
Xylene (Total)	ug/L	ND	3.0	0.42	01/15/16 15:34	
1,2-Dichloroethane-d4 (S)	%	106	80-120		01/15/16 15:34	
4-Bromofluorobenzene (S)	%	102	80-120		01/15/16 15:34	
Toluene-d8 (S)	%	101	80-120		01/15/16 15:34	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

LABORATORY CONTROL SAMPLE: 1697709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.7	93	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	18.4	92	73-121	
1,1,2-Trichloroethane	ug/L	20	17.4	87	80-120	
1,1-Dichloroethane	ug/L	20	20.3	102	80-120	
1,1-Dichloroethene	ug/L	20	18.8	94	80-120	
1,2-Dichloroethane	ug/L	20	20.0	100	81-120	
1,2-Dichloropropane	ug/L	20	19.7	98	80-120	
2-Butanone (MEK)	ug/L	100	111	111	67-122	
2-Hexanone	ug/L	100	112	112	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	76-120	
Acetone	ug/L	100	120	120	72-120	
Benzene	ug/L	20	19.8	99	80-120	
Bromodichloromethane	ug/L	20	18.9	95	80-120	
Bromoform	ug/L	20	17.3	86	73-138	
Bromomethane	ug/L	20	23.7	118	38-137	
Carbon disulfide	ug/L	20	20.6	103	71-129	
Carbon tetrachloride	ug/L	20	18.2	91	67-146	
Chlorobenzene	ug/L	20	19.7	99	80-120	
Chloroethane	ug/L	20	19.8	99	76-120	
Chloroform	ug/L	20	18.4	92	80-120	
Chloromethane	ug/L	20	22.9	114	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.7	99	80-120	
Dibromochloromethane	ug/L	20	18.4	92	80-126	
Ethylbenzene	ug/L	20	19.9	99	80-120	
Methylene chloride	ug/L	20	20.4	102	80-120	
Styrene	ug/L	20	21.8	109	80-123	
Tetrachloroethene	ug/L	20	17.9	89	80-123	
Toluene	ug/L	20	19.2	96	80-120	
trans-1,2-Dichloroethene	ug/L	20	17.9	90	80-120	
trans-1,3-Dichloropropene	ug/L	20	19.7	98	80-129	
Trichloroethene	ug/L	20	18.0	90	80-120	
Vinyl chloride	ug/L	20	22.3	112	62-125	
Xylene (Total)	ug/L	60	63.6	106	80-120	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MSV/73749
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 7 day
Associated Lab Samples: 60211085015

METHOD BLANK: 1696932
Matrix: Water
Associated Lab Samples: 60211085015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/14/16 09:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/14/16 09:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/14/16 09:29	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/14/16 09:29	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/14/16 09:29	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/14/16 09:29	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/14/16 09:29	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/14/16 09:29	
2-Hexanone	ug/L	ND	10.0	1.2	01/14/16 09:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/14/16 09:29	
Benzene	ug/L	ND	1.0	0.060	01/14/16 09:29	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/14/16 09:29	
Bromoform	ug/L	ND	1.0	0.070	01/14/16 09:29	
Bromomethane	ug/L	ND	5.0	0.16	01/14/16 09:29	
Carbon disulfide	ug/L	ND	5.0	0.12	01/14/16 09:29	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/14/16 09:29	
Chlorobenzene	ug/L	ND	1.0	0.21	01/14/16 09:29	
Chloroethane	ug/L	ND	1.0	0.15	01/14/16 09:29	
Chloroform	ug/L	ND	1.0	0.14	01/14/16 09:29	
Chloromethane	ug/L	0.29J	1.0	0.080	01/14/16 09:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/14/16 09:29	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/14/16 09:29	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/14/16 09:29	
Ethylbenzene	ug/L	ND	1.0	0.18	01/14/16 09:29	
Methylene chloride	ug/L	ND	1.0	0.15	01/14/16 09:29	
Styrene	ug/L	ND	1.0	0.12	01/14/16 09:29	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/14/16 09:29	
Toluene	ug/L	ND	1.0	0.17	01/14/16 09:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/14/16 09:29	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/14/16 09:29	
Trichloroethene	ug/L	ND	1.0	0.17	01/14/16 09:29	
Vinyl chloride	ug/L	ND	1.0	0.13	01/14/16 09:29	
Xylene (Total)	ug/L	ND	3.0	0.42	01/14/16 09:29	
1,2-Dichloroethane-d4 (S)	%	106	80-120		01/14/16 09:29	
4-Bromofluorobenzene (S)	%	98	80-120		01/14/16 09:29	
Toluene-d8 (S)	%	100	80-120		01/14/16 09:29	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

LABORATORY CONTROL SAMPLE: 1696933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.2	96	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	97	73-121	
1,1,2-Trichloroethane	ug/L	20	18.4	92	80-120	
1,1-Dichloroethane	ug/L	20	20.9	104	80-120	
1,1-Dichloroethene	ug/L	20	18.4	92	80-120	
1,2-Dichloroethane	ug/L	20	20.1	101	81-120	
1,2-Dichloropropane	ug/L	20	19.7	99	80-120	
2-Butanone (MEK)	ug/L	100	119	119	67-122	
2-Hexanone	ug/L	100	117	117	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	116	116	76-120	
Benzene	ug/L	20	20.1	101	80-120	
Bromodichloromethane	ug/L	20	19.3	96	80-120	
Bromoform	ug/L	20	18.3	92	73-138	
Bromomethane	ug/L	20	20.4	102	38-137	
Carbon disulfide	ug/L	20	20.8	104	71-129	
Carbon tetrachloride	ug/L	20	18.5	93	67-146	
Chlorobenzene	ug/L	20	19.5	98	80-120	
Chloroethane	ug/L	20	21.9	110	76-120	
Chloroform	ug/L	20	18.2	91	80-120	
Chloromethane	ug/L	20	18.3	91	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.5	93	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	80-120	
Dibromochloromethane	ug/L	20	19.3	96	80-126	
Ethylbenzene	ug/L	20	20.8	104	80-120	
Methylene chloride	ug/L	20	20.2	101	80-120	
Styrene	ug/L	20	22.5	112	80-123	
Tetrachloroethene	ug/L	20	17.9	89	80-123	
Toluene	ug/L	20	19.7	98	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.1	91	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	80-129	
Trichloroethene	ug/L	20	18.1	90	80-120	
Vinyl chloride	ug/L	20	21.0	105	62-125	
Xylene (Total)	ug/L	60	65.1	108	80-120	
1,2-Dichloroethane-d4 (S)	%			107	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MSV/73772
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 7 day
Associated Lab Samples: 60211085015

METHOD BLANK: 1697710 Matrix: Water
Associated Lab Samples: 60211085015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	10.0	1.9	01/15/16 15:34	
1,2-Dichloroethane-d4 (S)	%	106	80-120		01/15/16 15:34	
4-Bromofluorobenzene (S)	%	102	80-120		01/15/16 15:34	
Toluene-d8 (S)	%	101	80-120		01/15/16 15:34	

LABORATORY CONTROL SAMPLE: 1697711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	100	120	120	72-120	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WET/59679 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015

METHOD BLANK: 1700120 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/21/16 11:16	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/21/16 11:16	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/21/16 11:16	

LABORATORY CONTROL SAMPLE: 1700121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	504	101	90-110	

SAMPLE DUPLICATE: 1700122

Parameter	Units	60211085009 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	51.8	52.1	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	51.8	52.1	0	10	

SAMPLE DUPLICATE: 1700123

Parameter	Units	60211085012 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	126	126	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	126	126	0	10	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WET/59680 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028

METHOD BLANK: 1700124 Matrix: Water
Associated Lab Samples: 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/21/16 13:46	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/21/16 13:46	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/21/16 13:46	

LABORATORY CONTROL SAMPLE: 1700125

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	500	100	90-110	

SAMPLE DUPLICATE: 1700126

Parameter	Units	60211085022 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	51.9	53.9	4	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	51.9	53.9	4	10	

SAMPLE DUPLICATE: 1700127

Parameter	Units	60211085026 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	171	174	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	171	174	2	10	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WET/59694 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60211085029

METHOD BLANK: 1700730 Matrix: Water
Associated Lab Samples: 60211085029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/25/16 09:34	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/25/16 09:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/25/16 09:34	

LABORATORY CONTROL SAMPLE: 1700731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	479	96	90-110	

SAMPLE DUPLICATE: 1700732

Parameter	Units	60211085029 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	89.1	89.6	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	89.1	89.6	1	10	

SAMPLE DUPLICATE: 1700733

Parameter	Units	60211236006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	62.6	63.4	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	62.6	61.4	2	10	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WET/59624 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020

METHOD BLANK: 1698825 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/19/16 15:05	

LABORATORY CONTROL SAMPLE: 1698826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.49	98	80-120	

MATRIX SPIKE SAMPLE: 1698827

Parameter	Units	60211085001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.49	99	75-125	

SAMPLE DUPLICATE: 1698828

Parameter	Units	60211085009 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1698829

Parameter	Units	60211085012 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WET/59625 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

METHOD BLANK: 1698832 Matrix: Water
Associated Lab Samples: 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/19/16 15:10	

LABORATORY CONTROL SAMPLE: 1698833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.50	99	80-120	

MATRIX SPIKE SAMPLE: 1698834

Parameter	Units	60211085022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.50	100	75-125	

SAMPLE DUPLICATE: 1698835

Parameter	Units	60211085026 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1698836

Parameter	Units	60211085029 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WET/59666
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60211085008

METHOD BLANK: 1699703
Matrix: Water
Associated Lab Samples: 60211085008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/20/16 11:37	

LABORATORY CONTROL SAMPLE: 1699704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.52	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1699705 1699706

Parameter	Units	60211085008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	ND	.5	.5	0.57	0.56	114	113	75-125	1	20	H1

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37736 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085019, 60211085029

METHOD BLANK: 1697662 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085019, 60211085029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/17/16 11:55	
Sulfate	mg/L	ND	1.0	0.25	01/17/16 11:55	

METHOD BLANK: 1698567 Matrix: Water
Associated Lab Samples: 60211085009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/18/16 07:54	
Sulfate	mg/L	ND	1.0	0.25	01/18/16 07:54	

LABORATORY CONTROL SAMPLE: 1697663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	5.1	101	90-110	

LABORATORY CONTROL SAMPLE: 1698568

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	5	5.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697664 1697665

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	11.6	5	5	16.2	16.3	91	94	80-120	1	15	
Sulfate	mg/L	16.6	5	5	20.8	20.8	84	85	80-120	0	15	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

MATRIX SPIKE SAMPLE: 1697666

Parameter	Units	60211085012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	114	50	160	93	80-120	
Sulfate	mg/L	98.7	50	145	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1698565 1698566

Parameter	Units	60211085029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	16.9	10	10	26.0	26.0	91	92	80-120	0	15	
Sulfate	mg/L	36.2	10	10	44.3	44.7	81	85	80-120	1	15	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37738 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028

METHOD BLANK: 1697924 Matrix: Water
Associated Lab Samples: 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/15/16 18:34	
Sulfate	mg/L	ND	1.0	0.25	01/15/16 18:34	

LABORATORY CONTROL SAMPLE: 1697925

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697926 1697927

Parameter	Units	60211085022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	98.7	25	25	120	120	85	86	80-120	0	15	
Sulfate	mg/L	18.0	10	10	27.0	26.9	91	89	80-120	1	15	

MATRIX SPIKE SAMPLE: 1697928

Parameter	Units	60211085026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	94.9	50	140	91	80-120	
Sulfate	mg/L	34.4	25	57.3	91	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37758
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60211085018

METHOD BLANK: 1698551 Matrix: Water
Associated Lab Samples: 60211085018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/18/16 07:54	
Sulfate	mg/L	ND	1.0	0.25	01/18/16 07:54	

LABORATORY CONTROL SAMPLE: 1698552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	5	5.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1698553 1698554

Parameter	Units	60211236021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	389	1000	1000	1340	1340	95	95	80-120	0	15	
Sulfate	mg/L	1580	1000	1000	2490	2480	91	90	80-120	0	15	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37769 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60211085001, 60211085002

METHOD BLANK: 1698762 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/19/16 09:45	

LABORATORY CONTROL SAMPLE: 1698763

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	107	90-110	

MATRIX SPIKE SAMPLE: 1698764

Parameter	Units	60211036001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	16.9	20	34.7	89	90-110	M1

MATRIX SPIKE SAMPLE: 1698765

Parameter	Units	60211037003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	7.3	10	17.1	99	90-110	

SAMPLE DUPLICATE: 1698766

Parameter	Units	60211048002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	ND		18	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37770 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085022

METHOD BLANK: 1698767 Matrix: Water
Associated Lab Samples: 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/19/16 11:25	

LABORATORY CONTROL SAMPLE: 1698768

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1698769

Parameter	Units	60211085009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.6	82	90-110	M1

MATRIX SPIKE SAMPLE: 1698770

Parameter	Units	60211085012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.2	59	90-110	M1

SAMPLE DUPLICATE: 1698771

Parameter	Units	60211085022 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37771 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

METHOD BLANK: 1698772 Matrix: Water
Associated Lab Samples: 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/19/16 11:58	

LABORATORY CONTROL SAMPLE: 1698773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	103	90-110	

MATRIX SPIKE SAMPLE: 1698774

Parameter	Units	60211085026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.2	59	90-110	M1

MATRIX SPIKE SAMPLE: 1698775

Parameter	Units	60211085029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.5	74	90-110	M1

SAMPLE DUPLICATE: 1698776

Parameter	Units	60211115002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	24.1	24.0	0	18	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37712 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018

METHOD BLANK: 1696521 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.014	01/13/16 14:26	
Nitrogen, Nitrite	mg/L	ND	0.10	0.023	01/13/16 14:26	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	0.014	01/13/16 14:26	

LABORATORY CONTROL SAMPLE: 1696522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	100	85-115	
Nitrogen, Nitrite	mg/L	.4	0.38	96	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.0	99	90-110	

MATRIX SPIKE SAMPLE: 1696523

Parameter	Units	60211080001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	29.9	16	40.9	69	85-115	M1
Nitrogen, Nitrite	mg/L	4.8	4	9.3	110	90-110	
Nitrogen, NO2 plus NO3	mg/L	34.7	20	50.2	77	90-110	M1

MATRIX SPIKE SAMPLE: 1696524

Parameter	Units	60211085009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.16	1.6	1.8	105	85-115	
Nitrogen, Nitrite	mg/L	ND	.4	0.41	103	90-110	
Nitrogen, NO2 plus NO3	mg/L	0.16	2	2.3	105	90-110	

SAMPLE DUPLICATE: 1696525

Parameter	Units	60211085012 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	22.6	22.7	1	20	
Nitrogen, Nitrite	mg/L	ND	ND		20	
Nitrogen, NO2 plus NO3	mg/L	22.6	22.7	1	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37713 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60211085019, 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

METHOD BLANK: 1696534 Matrix: Water
Associated Lab Samples: 60211085019, 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.014	01/13/16 14:51	
Nitrogen, Nitrite	mg/L	ND	0.10	0.023	01/13/16 14:51	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	0.014	01/13/16 14:51	

LABORATORY CONTROL SAMPLE: 1696535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	101	85-115	
Nitrogen, Nitrite	mg/L	.4	0.37	94	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.0	99	90-110	

MATRIX SPIKE SAMPLE: 1696536

Parameter	Units	60211085022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.69	1.6	2.3	100	85-115	
Nitrogen, Nitrite	mg/L	ND	.4	0.40	100	90-110	
Nitrogen, NO2 plus NO3	mg/L	0.69	2	2.7	100	90-110	

MATRIX SPIKE SAMPLE: 1696537

Parameter	Units	60211092002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	3.6	1.6	4.7	65	85-115	M1
Nitrogen, Nitrite	mg/L	ND	.4	0.52	118	90-110	M1
Nitrogen, NO2 plus NO3	mg/L	3.7	2	5.2	76	90-110	M1

SAMPLE DUPLICATE: 1696538

Parameter	Units	60211100002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	6.1	6.1	1	20	
Nitrogen, Nitrite	mg/L	0.25	0.25	1	20	
Nitrogen, NO2 plus NO3	mg/L	6.4	6.3	1	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37791 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005

METHOD BLANK: 1699297 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/20/16 13:31	

LABORATORY CONTROL SAMPLE: 1699298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.6	111	80-120	

MATRIX SPIKE SAMPLE: 1699299

Parameter	Units	60210969003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	0.55J	5	6.4	117	80-120	

SAMPLE DUPLICATE: 1699300

Parameter	Units	60210974001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37792 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085023, 60211085024, 60211085025, 60211085027

METHOD BLANK: 1699301 Matrix: Water
Associated Lab Samples: 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085023, 60211085024, 60211085025, 60211085027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/20/16 20:03	

LABORATORY CONTROL SAMPLE: 1699302

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.5	111	80-120	

MATRIX SPIKE SAMPLE: 1699303

Parameter	Units	60211085009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.0	5	7.9	118	80-120	

SAMPLE DUPLICATE: 1699304

Parameter	Units	60211085012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	0.52J	0.52J		25	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37818 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60211085022, 60211085028

METHOD BLANK: 1700498 Matrix: Water
Associated Lab Samples: 60211085022, 60211085028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/21/16 14:36	

LABORATORY CONTROL SAMPLE: 1700499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.0	100	80-120	

MATRIX SPIKE SAMPLE: 1700500

Parameter	Units	60211085022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	5	5.1	92	80-120	

SAMPLE DUPLICATE: 1700501

Parameter	Units	60211513008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	47.0	44.3	6	25	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37819 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60211085026, 60211085029

METHOD BLANK: 1700577 Matrix: Water
Associated Lab Samples: 60211085026, 60211085029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/25/16 11:54	

LABORATORY CONTROL SAMPLE: 1700578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.1	101	80-120	

MATRIX SPIKE SAMPLE: 1700579

Parameter	Units	60211085026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	4.1	5	8.5	88	80-120	

SAMPLE DUPLICATE: 1700580

Parameter	Units	60211085029 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	0.65J	0.60J		25	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/10277 Analysis Method: SM 4500-P E
QC Batch Method: SM4500-P B Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014

METHOD BLANK: 196224 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.018J	0.030	0.010	01/20/16 15:51	

LABORATORY CONTROL SAMPLE: 196225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.3	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196226 196227

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.080	1.5	1.5	1.4	1.4	88	85	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196228 196229

Parameter	Units	60211085012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.095	1.5	1.5	1.4	1.4	84	87	80-120	2	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/10298 Analysis Method: SM 4500-P E
QC Batch Method: SM4500-P B Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

METHOD BLANK: 196611 Matrix: Water
Associated Lab Samples: 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.030	0.010	01/21/16 15:14	

LABORATORY CONTROL SAMPLE: 196612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.4	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196613 196614

Parameter	Units	60211085022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.040	1.5	1.5	1.3	1.4	85	87	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196615 196616

Parameter	Units	60211085026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.11	1.5	1.5	1.5	1.3	90	80	80-120	10	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196617 196618

Parameter	Units	60211085029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.19	1.5	1.5	1.5	1.5	87	89	80-120	2	20	

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QUALIFIERS

Project: FORT SMITH AR
Pace Project No.: 60211085

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-D	Pace Analytical Services - Dallas
PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73749
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/73769
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/73771
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/73772
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: WET/59735
[1] Ferrous Fe performed in the field
Batch: WET/59736
[1] Ferrous Fe performed in the field
Batch: WET/59744
[1] Field pH
Batch: WET/59745
[1] Field pH

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QUALIFIERS

Project: FORT SMITH AR
Pace Project No.: 60211085

BATCH QUALIFIERS

Batch: WET/59750

[1]	Ferrous Fe perfromed in the field

ANALYTE QUALIFIERS

1e	Total Iron was confirmed.
B	Analyte was detected in the associated method blank.
H1	Analysis conducted outside the EPA method holding time.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P2	Re-extraction or re-analysis could not be performed due to insufficient sample amount.
R1	RPD value was outside control limits.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085001	MW-40R-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085002	IW-72-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085003	IW-74-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085004	IW-73-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085005	MW-41R-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085006	IW-76-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085007	MW-39R-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085008	MW-46R-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085009	MW-55R-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085010	MW-68-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085011	RW-69-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085012	ITMW-6-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085013	MW-27-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085014	MW-31R-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085015	MW-32R-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085016	MW-97-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085017	MW-183-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085018	MW-96-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085019	MW-89-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085020	MW-58R-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085021	MW-88-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085022	ITMW-20-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085023	MW-63R-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085024	MW-22-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085025	ITMW-14-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085026	MW-90-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085027	ITMW-2-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085028	ITMW-4-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085029	MW-28-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085001	MW-40R-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085002	IW-72-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085002	IW-72-201601	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085003	IW-74-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085003	IW-74-201601	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085004	IW-73-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085005	MW-41R-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085006	IW-76-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085007	MW-39R-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085008	MW-46R-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085008	MW-46R-201601	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085009	MW-55R-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085009	MW-55R-201601	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085010	MW-68-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085010	**MW-68-201601**	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085011	**RW-69-201601**	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085011	**RW-69-201601**	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085012	**ITMW-6-201601**	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085012	**ITMW-6-201601**	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085013	**MW-27-201601**	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085014	**MW-31R-201601**	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085015	**MW-32R-201601**	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085016	**MW-97-201601**	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085016	**MW-97-201601**	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085017	**MW-183-201601**	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085017	**MW-183-201601**	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085018	**MW-96-201601**	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085019	**MW-89-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085020	**MW-58R-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085021	**MW-88-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085022	**ITMW-20-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085023	**MW-63R-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085024	**MW-22-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085025	**ITMW-14-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085026	**MW-90-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085027	**ITMW-2-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085028	**ITMW-4-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085029	**MW-28-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085001	**MW-40R-201601**	EPA 5030B/8260	MSV/73748		
60211085002	**IW-72-201601**	EPA 5030B/8260	MSV/73748		
60211085003	**IW-74-201601**	EPA 5030B/8260	MSV/73748		
60211085004	**IW-73-201601**	EPA 5030B/8260	MSV/73748		
60211085005	**MW-41R-201601**	EPA 5030B/8260	MSV/73748		
60211085006	**IW-76-201601**	EPA 5030B/8260	MSV/73769		
60211085007	**MW-39R-201601**	EPA 5030B/8260	MSV/73748		
60211085008	**MW-46R-201601**	EPA 5030B/8260	MSV/73748		
60211085009	**MW-55R-201601**	EPA 5030B/8260	MSV/73748		
60211085010	**MW-68-201601**	EPA 5030B/8260	MSV/73750		
60211085011	**RW-69-201601**	EPA 5030B/8260	MSV/73750		
60211085012	**ITMW-6-201601**	EPA 5030B/8260	MSV/73750		
60211085013	**MW-27-201601**	EPA 5030B/8260	MSV/73750		
60211085014	**MW-31R-201601**	EPA 5030B/8260	MSV/73750		
60211085016	**MW-97-201601**	EPA 5030B/8260	MSV/73750		
60211085017	**MW-183-201601**	EPA 5030B/8260	MSV/73750		
60211085018	**MW-96-201601**	EPA 5030B/8260	MSV/73750		
60211085019	**MW-89-201601**	EPA 5030B/8260	MSV/73750		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085020	MW-58R-201601	EPA 5030B/8260	MSV/73750		
60211085020	MW-58R-201601	EPA 5030B/8260	MSV/73769		
60211085021	MW-88-201601	EPA 5030B/8260	MSV/73750		
60211085022	ITMW-20-201601	EPA 5030B/8260	MSV/73750		
60211085023	MW-63R-201601	EPA 5030B/8260	MSV/73750		
60211085024	MW-22-201601	EPA 5030B/8260	MSV/73752		
60211085025	ITMW-14-201601	EPA 5030B/8260	MSV/73752		
60211085026	MW-90-201601	EPA 5030B/8260	MSV/73752		
60211085027	ITMW-2-201601	EPA 5030B/8260	MSV/73752		
60211085028	ITMW-4-201601	EPA 5030B/8260	MSV/73752		
60211085029	MW-28-201601	EPA 5030B/8260	MSV/73752		
60211085030	DUP-07-201601	EPA 5030B/8260	MSV/73752		
60211085031	DUP-06-201601	EPA 5030B/8260	MSV/73752		
60211085032	DUP-05-201601	EPA 5030B/8260	MSV/73752		
60211085033	DUP-10-201601	EPA 5030B/8260	MSV/73752		
60211085033	DUP-10-201601	EPA 5030B/8260	MSV/73769		
60211085034	EB-04-201601	EPA 5030B/8260	MSV/73752		
60211085035	EB-03-201601	EPA 5030B/8260	MSV/73752		
60211085036	TB-07-201601	EPA 5030B/8260	MSV/73769		
60211085037	TB-08-2016021	EPA 5030B/8260	MSV/73769		
60211085038	TB-09-2016021	EPA 5030B/8260	MSV/73769		
60211085039	TB-10-2016021	EPA 5030B/8260	MSV/73769		
60211085040	TB-11-2016021	EPA 5030B/8260	MSV/73769		
60211085041	TB-12-2016021	EPA 5030B/8260	MSV/73771		
60211085042	TB-13-2016021	EPA 5030B/8260	MSV/73771		
60211085043	TB-14-2016021	EPA 5030B/8260	MSV/73771		
60211085015	MW-32R-201601	EPA 5030B/8260	MSV/73749		
60211085015	MW-32R-201601	EPA 5030B/8260	MSV/73772		
60211085001	MW-40R-201601	SM 2320B	WET/59679		
60211085002	IW-72-201601	SM 2320B	WET/59679		
60211085003	IW-74-201601	SM 2320B	WET/59679		
60211085004	IW-73-201601	SM 2320B	WET/59679		
60211085005	MW-41R-201601	SM 2320B	WET/59679		
60211085006	IW-76-201601	SM 2320B	WET/59679		
60211085007	MW-39R-201601	SM 2320B	WET/59679		
60211085008	MW-46R-201601	SM 2320B	WET/59679		
60211085009	MW-55R-201601	SM 2320B	WET/59679		
60211085010	MW-68-201601	SM 2320B	WET/59679		
60211085011	RW-69-201601	SM 2320B	WET/59679		
60211085012	ITMW-6-201601	SM 2320B	WET/59679		
60211085013	MW-27-201601	SM 2320B	WET/59679		
60211085014	MW-31R-201601	SM 2320B	WET/59679		
60211085015	MW-32R-201601	SM 2320B	WET/59679		

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Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085016	MW-97-201601	SM 2320B	WET/59680		
60211085017	MW-183-201601	SM 2320B	WET/59680		
60211085018	MW-96-201601	SM 2320B	WET/59680		
60211085019	MW-89-201601	SM 2320B	WET/59680		
60211085020	MW-58R-201601	SM 2320B	WET/59680		
60211085021	MW-88-201601	SM 2320B	WET/59680		
60211085022	ITMW-20-201601	SM 2320B	WET/59680		
60211085023	MW-63R-201601	SM 2320B	WET/59680		
60211085024	MW-22-201601	SM 2320B	WET/59680		
60211085025	ITMW-14-201601	SM 2320B	WET/59680		
60211085026	MW-90-201601	SM 2320B	WET/59680		
60211085027	ITMW-2-201601	SM 2320B	WET/59680		
60211085028	ITMW-4-201601	SM 2320B	WET/59680		
60211085029	MW-28-201601	SM 2320B	WET/59694		
60211085001	MW-40R-201601	SM 3500-Fe B#4	WET/59735		
60211085002	IW-72-201601	SM 3500-Fe B#4	WET/59735		
60211085003	IW-74-201601	SM 3500-Fe B#4	WET/59735		
60211085004	IW-73-201601	SM 3500-Fe B#4	WET/59735		
60211085005	MW-41R-201601	SM 3500-Fe B#4	WET/59735		
60211085006	IW-76-201601	SM 3500-Fe B#4	WET/59735		
60211085007	MW-39R-201601	SM 3500-Fe B#4	WET/59750		
60211085008	MW-46R-201601	SM 3500-Fe B#4	WET/59735		
60211085009	MW-55R-201601	SM 3500-Fe B#4	WET/59735		
60211085010	MW-68-201601	SM 3500-Fe B#4	WET/59735		
60211085011	RW-69-201601	SM 3500-Fe B#4	WET/59735		
60211085012	ITMW-6-201601	SM 3500-Fe B#4	WET/59735		
60211085013	MW-27-201601	SM 3500-Fe B#4	WET/59735		
60211085014	MW-31R-201601	SM 3500-Fe B#4	WET/59735		
60211085015	MW-32R-201601	SM 3500-Fe B#4	WET/59735		
60211085016	MW-97-201601	SM 3500-Fe B#4	WET/59735		
60211085017	MW-183-201601	SM 3500-Fe B#4	WET/59735		
60211085018	MW-96-201601	SM 3500-Fe B#4	WET/59735		
60211085019	MW-89-201601	SM 3500-Fe B#4	WET/59735		
60211085020	MW-58R-201601	SM 3500-Fe B#4	WET/59735		
60211085021	MW-88-201601	SM 3500-Fe B#4	WET/59736		
60211085022	ITMW-20-201601	SM 3500-Fe B#4	WET/59736		
60211085023	MW-63R-201601	SM 3500-Fe B#4	WET/59736		
60211085024	MW-22-201601	SM 3500-Fe B#4	WET/59750		
60211085025	ITMW-14-201601	SM 3500-Fe B#4	WET/59736		
60211085026	MW-90-201601	SM 3500-Fe B#4	WET/59736		
60211085027	ITMW-2-201601	SM 3500-Fe B#4	WET/59736		
60211085028	ITMW-4-201601	SM 3500-Fe B#4	WET/59736		
60211085029	MW-28-201601	SM 3500-Fe B#4	WET/59736		
60211085001	MW-40R-201601	SM 4500-H+B	WET/59744		
60211085002	IW-72-201601	SM 4500-H+B	WET/59744		

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Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085003	IW-74-201601	SM 4500-H+B	WET/59744		
60211085004	IW-73-201601	SM 4500-H+B	WET/59744		
60211085005	MW-41R-201601	SM 4500-H+B	WET/59744		
60211085006	IW-76-201601	SM 4500-H+B	WET/59745		
60211085007	MW-39R-201601	SM 4500-H+B	WET/59744		
60211085008	MW-46R-201601	SM 4500-H+B	WET/59745		
60211085009	MW-55R-201601	SM 4500-H+B	WET/59744		
60211085010	MW-68-201601	SM 4500-H+B	WET/59744		
60211085011	RW-69-201601	SM 4500-H+B	WET/59744		
60211085012	ITMW-6-201601	SM 4500-H+B	WET/59745		
60211085013	MW-27-201601	SM 4500-H+B	WET/59744		
60211085014	MW-31R-201601	SM 4500-H+B	WET/59744		
60211085015	MW-32R-201601	SM 4500-H+B	WET/59745		
60211085016	MW-97-201601	SM 4500-H+B	WET/59744		
60211085017	MW-183-201601	SM 4500-H+B	WET/59744		
60211085018	MW-96-201601	SM 4500-H+B	WET/59744		
60211085019	MW-89-201601	SM 4500-H+B	WET/59745		
60211085020	MW-58R-201601	SM 4500-H+B	WET/59744		
60211085021	MW-88-201601	SM 4500-H+B	WET/59744		
60211085022	ITMW-20-201601	SM 4500-H+B	WET/59745		
60211085023	MW-63R-201601	SM 4500-H+B	WET/59744		
60211085024	MW-22-201601	SM 4500-H+B	WET/59745		
60211085025	ITMW-14-201601	SM 4500-H+B	WET/59745		
60211085026	MW-90-201601	SM 4500-H+B	WET/59744		
60211085027	ITMW-2-201601	SM 4500-H+B	WET/59745		
60211085028	ITMW-4-201601	SM 4500-H+B	WET/59744		
60211085029	MW-28-201601	SM 4500-H+B	WET/59744		
60211085001	MW-40R-201601	SM 4500-S-2 D	WET/59624		
60211085002	IW-72-201601	SM 4500-S-2 D	WET/59624		
60211085003	IW-74-201601	SM 4500-S-2 D	WET/59624		
60211085004	IW-73-201601	SM 4500-S-2 D	WET/59624		
60211085005	MW-41R-201601	SM 4500-S-2 D	WET/59624		
60211085006	IW-76-201601	SM 4500-S-2 D	WET/59624		
60211085007	MW-39R-201601	SM 4500-S-2 D	WET/59624		
60211085008	MW-46R-201601	SM 4500-S-2 D	WET/59666		
60211085009	MW-55R-201601	SM 4500-S-2 D	WET/59624		
60211085010	MW-68-201601	SM 4500-S-2 D	WET/59624		
60211085011	RW-69-201601	SM 4500-S-2 D	WET/59624		
60211085012	ITMW-6-201601	SM 4500-S-2 D	WET/59624		

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Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085013	MW-27-201601	SM 4500-S-2 D	WET/59624		
60211085014	MW-31R-201601	SM 4500-S-2 D	WET/59624		
60211085015	MW-32R-201601	SM 4500-S-2 D	WET/59624		
60211085016	MW-97-201601	SM 4500-S-2 D	WET/59624		
60211085017	MW-183-201601	SM 4500-S-2 D	WET/59624		
60211085018	MW-96-201601	SM 4500-S-2 D	WET/59624		
60211085019	MW-89-201601	SM 4500-S-2 D	WET/59624		
60211085020	MW-58R-201601	SM 4500-S-2 D	WET/59624		
60211085021	MW-88-201601	SM 4500-S-2 D	WET/59625		
60211085022	ITMW-20-201601	SM 4500-S-2 D	WET/59625		
60211085023	MW-63R-201601	SM 4500-S-2 D	WET/59625		
60211085024	MW-22-201601	SM 4500-S-2 D	WET/59625		
60211085025	ITMW-14-201601	SM 4500-S-2 D	WET/59625		
60211085026	MW-90-201601	SM 4500-S-2 D	WET/59625		
60211085027	ITMW-2-201601	SM 4500-S-2 D	WET/59625		
60211085028	ITMW-4-201601	SM 4500-S-2 D	WET/59625		
60211085029	MW-28-201601	SM 4500-S-2 D	WET/59625		
60211085001	MW-40R-201601	EPA 300.0	WETA/37736		
60211085002	IW-72-201601	EPA 300.0	WETA/37736		
60211085003	IW-74-201601	EPA 300.0	WETA/37736		
60211085004	IW-73-201601	EPA 300.0	WETA/37736		
60211085005	MW-41R-201601	EPA 300.0	WETA/37736		
60211085006	IW-76-201601	EPA 300.0	WETA/37736		
60211085007	MW-39R-201601	EPA 300.0	WETA/37736		
60211085008	MW-46R-201601	EPA 300.0	WETA/37736		
60211085009	MW-55R-201601	EPA 300.0	WETA/37736		
60211085010	MW-68-201601	EPA 300.0	WETA/37736		
60211085011	RW-69-201601	EPA 300.0	WETA/37736		
60211085012	ITMW-6-201601	EPA 300.0	WETA/37736		
60211085013	MW-27-201601	EPA 300.0	WETA/37736		
60211085014	MW-31R-201601	EPA 300.0	WETA/37736		
60211085015	MW-32R-201601	EPA 300.0	WETA/37736		
60211085016	MW-97-201601	EPA 300.0	WETA/37736		
60211085017	MW-183-201601	EPA 300.0	WETA/37736		
60211085018	MW-96-201601	EPA 300.0	WETA/37758		
60211085019	MW-89-201601	EPA 300.0	WETA/37736		
60211085020	MW-58R-201601	EPA 300.0	WETA/37738		
60211085021	MW-88-201601	EPA 300.0	WETA/37738		
60211085022	ITMW-20-201601	EPA 300.0	WETA/37738		
60211085023	MW-63R-201601	EPA 300.0	WETA/37738		
60211085024	MW-22-201601	EPA 300.0	WETA/37738		
60211085025	ITMW-14-201601	EPA 300.0	WETA/37738		
60211085026	MW-90-201601	EPA 300.0	WETA/37738		
60211085027	ITMW-2-201601	EPA 300.0	WETA/37738		
60211085028	ITMW-4-201601	EPA 300.0	WETA/37738		
60211085029	MW-28-201601	EPA 300.0	WETA/37736		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085001	MW-40R-201601	EPA 350.1	WETA/37769		
60211085002	IW-72-201601	EPA 350.1	WETA/37769		
60211085003	IW-74-201601	EPA 350.1	WETA/37770		
60211085004	IW-73-201601	EPA 350.1	WETA/37770		
60211085005	MW-41R-201601	EPA 350.1	WETA/37770		
60211085006	IW-76-201601	EPA 350.1	WETA/37770		
60211085007	MW-39R-201601	EPA 350.1	WETA/37770		
60211085008	MW-46R-201601	EPA 350.1	WETA/37770		
60211085009	MW-55R-201601	EPA 350.1	WETA/37770		
60211085010	MW-68-201601	EPA 350.1	WETA/37770		
60211085011	RW-69-201601	EPA 350.1	WETA/37770		
60211085012	ITMW-6-201601	EPA 350.1	WETA/37770		
60211085013	MW-27-201601	EPA 350.1	WETA/37770		
60211085014	MW-31R-201601	EPA 350.1	WETA/37770		
60211085015	MW-32R-201601	EPA 350.1	WETA/37770		
60211085016	MW-97-201601	EPA 350.1	WETA/37770		
60211085017	MW-183-201601	EPA 350.1	WETA/37770		
60211085018	MW-96-201601	EPA 350.1	WETA/37770		
60211085019	MW-89-201601	EPA 350.1	WETA/37770		
60211085020	MW-58R-201601	EPA 350.1	WETA/37770		
60211085021	MW-88-201601	EPA 350.1	WETA/37770		
60211085022	ITMW-20-201601	EPA 350.1	WETA/37770		
60211085023	MW-63R-201601	EPA 350.1	WETA/37771		
60211085024	MW-22-201601	EPA 350.1	WETA/37771		
60211085025	ITMW-14-201601	EPA 350.1	WETA/37771		
60211085026	MW-90-201601	EPA 350.1	WETA/37771		
60211085027	ITMW-2-201601	EPA 350.1	WETA/37771		
60211085028	ITMW-4-201601	EPA 350.1	WETA/37771		
60211085029	MW-28-201601	EPA 350.1	WETA/37771		
60211085001	MW-40R-201601	EPA 353.2	WETA/37712		
60211085002	IW-72-201601	EPA 353.2	WETA/37712		
60211085003	IW-74-201601	EPA 353.2	WETA/37712		
60211085004	IW-73-201601	EPA 353.2	WETA/37712		
60211085005	MW-41R-201601	EPA 353.2	WETA/37712		
60211085006	IW-76-201601	EPA 353.2	WETA/37712		
60211085007	MW-39R-201601	EPA 353.2	WETA/37712		
60211085008	MW-46R-201601	EPA 353.2	WETA/37712		
60211085009	MW-55R-201601	EPA 353.2	WETA/37712		
60211085010	MW-68-201601	EPA 353.2	WETA/37712		
60211085011	RW-69-201601	EPA 353.2	WETA/37712		
60211085012	ITMW-6-201601	EPA 353.2	WETA/37712		
60211085013	MW-27-201601	EPA 353.2	WETA/37712		
60211085014	MW-31R-201601	EPA 353.2	WETA/37712		
60211085015	MW-32R-201601	EPA 353.2	WETA/37712		
60211085016	MW-97-201601	EPA 353.2	WETA/37712		
60211085017	MW-183-201601	EPA 353.2	WETA/37712		
60211085018	MW-96-201601	EPA 353.2	WETA/37712		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085019	MW-89-201601	EPA 353.2	WETA/37713		
60211085020	MW-58R-201601	EPA 353.2	WETA/37713		
60211085021	MW-88-201601	EPA 353.2	WETA/37713		
60211085022	ITMW-20-201601	EPA 353.2	WETA/37713		
60211085023	MW-63R-201601	EPA 353.2	WETA/37713		
60211085024	MW-22-201601	EPA 353.2	WETA/37713		
60211085025	ITMW-14-201601	EPA 353.2	WETA/37713		
60211085026	MW-90-201601	EPA 353.2	WETA/37713		
60211085027	ITMW-2-201601	EPA 353.2	WETA/37713		
60211085028	ITMW-4-201601	EPA 353.2	WETA/37713		
60211085029	MW-28-201601	EPA 353.2	WETA/37713		
60211085001	MW-40R-201601	SM 4500-CO2 D	WETA/37868		
60211085002	IW-72-201601	SM 4500-CO2 D	WETA/37868		
60211085003	IW-74-201601	SM 4500-CO2 D	WETA/37868		
60211085004	IW-73-201601	SM 4500-CO2 D	WETA/37868		
60211085005	MW-41R-201601	SM 4500-CO2 D	WETA/37868		
60211085006	IW-76-201601	SM 4500-CO2 D	WETA/37868		
60211085007	MW-39R-201601	SM 4500-CO2 D	WETA/37868		
60211085008	MW-46R-201601	SM 4500-CO2 D	WETA/37868		
60211085009	MW-55R-201601	SM 4500-CO2 D	WETA/37868		
60211085010	MW-68-201601	SM 4500-CO2 D	WETA/37868		
60211085011	RW-69-201601	SM 4500-CO2 D	WETA/37868		
60211085012	ITMW-6-201601	SM 4500-CO2 D	WETA/37868		
60211085013	MW-27-201601	SM 4500-CO2 D	WETA/37868		
60211085014	MW-31R-201601	SM 4500-CO2 D	WETA/37868		
60211085015	MW-32R-201601	SM 4500-CO2 D	WETA/37868		
60211085016	MW-97-201601	SM 4500-CO2 D	WETA/37868		
60211085017	MW-183-201601	SM 4500-CO2 D	WETA/37868		
60211085018	MW-96-201601	SM 4500-CO2 D	WETA/37868		
60211085019	MW-89-201601	SM 4500-CO2 D	WETA/37868		
60211085020	MW-58R-201601	SM 4500-CO2 D	WETA/37868		
60211085021	MW-88-201601	SM 4500-CO2 D	WETA/37869		
60211085022	ITMW-20-201601	SM 4500-CO2 D	WETA/37869		
60211085023	MW-63R-201601	SM 4500-CO2 D	WETA/37869		
60211085024	MW-22-201601	SM 4500-CO2 D	WETA/37869		
60211085025	ITMW-14-201601	SM 4500-CO2 D	WETA/37869		
60211085026	MW-90-201601	SM 4500-CO2 D	WETA/37869		
60211085027	ITMW-2-201601	SM 4500-CO2 D	WETA/37869		
60211085028	ITMW-4-201601	SM 4500-CO2 D	WETA/37869		
60211085029	MW-28-201601	SM 4500-CO2 D	WETA/37869		
60211085001	MW-40R-201601	SM 5310C	WETA/37791		
60211085002	IW-72-201601	SM 5310C	WETA/37791		
60211085003	IW-74-201601	SM 5310C	WETA/37791		
60211085004	IW-73-201601	SM 5310C	WETA/37791		
60211085005	MW-41R-201601	SM 5310C	WETA/37791		
60211085006	IW-76-201601	SM 5310C	WETA/37792		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085007	MW-39R-201601	SM 5310C	WETA/37792		
60211085008	MW-46R-201601	SM 5310C	WETA/37792		
60211085009	MW-55R-201601	SM 5310C	WETA/37792		
60211085010	MW-68-201601	SM 5310C	WETA/37792		
60211085011	RW-69-201601	SM 5310C	WETA/37792		
60211085012	ITMW-6-201601	SM 5310C	WETA/37792		
60211085013	MW-27-201601	SM 5310C	WETA/37792		
60211085014	MW-31R-201601	SM 5310C	WETA/37792		
60211085015	MW-32R-201601	SM 5310C	WETA/37792		
60211085016	MW-97-201601	SM 5310C	WETA/37792		
60211085017	MW-183-201601	SM 5310C	WETA/37792		
60211085018	MW-96-201601	SM 5310C	WETA/37792		
60211085019	MW-89-201601	SM 5310C	WETA/37792		
60211085020	MW-58R-201601	SM 5310C	WETA/37792		
60211085021	MW-88-201601	SM 5310C	WETA/37792		
60211085022	ITMW-20-201601	SM 5310C	WETA/37818		
60211085023	MW-63R-201601	SM 5310C	WETA/37792		
60211085024	MW-22-201601	SM 5310C	WETA/37792		
60211085025	ITMW-14-201601	SM 5310C	WETA/37792		
60211085026	MW-90-201601	SM 5310C	WETA/37819		
60211085027	ITMW-2-201601	SM 5310C	WETA/37792		
60211085028	ITMW-4-201601	SM 5310C	WETA/37818		
60211085029	MW-28-201601	SM 5310C	WETA/37819		
60211085001	MW-40R-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085002	IW-72-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085003	IW-74-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085004	IW-73-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085005	MW-41R-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085006	IW-76-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085007	MW-39R-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085008	MW-46R-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085009	MW-55R-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085010	MW-68-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085011	RW-69-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085012	ITMW-6-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085013	MW-27-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085014	MW-31R-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085015	MW-32R-201601	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085016	MW-97-201601	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085017	MW-183-201601	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085018	MW-96-201601	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085019	MW-89-201601	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085020	MW-58R-201601	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085021	MW-88-201601	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085022	ITMW-20-201601	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085023	**MW-63R-201601**	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085024	**MW-22-201601**	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085025	**ITMW-14-201601**	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085026	**MW-90-201601**	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085027	**ITMW-2-201601**	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085028	**ITMW-4-201601**	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085029	**MW-28-201601**	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301

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Sample Condition Upon Receipt

WO# : 60211085

60211085

Trackling#: 6262 7065 3643, 3660, 3709, 3671, 3682, 3714

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☒ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: 6113 5281 6695, 6700 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☒ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 5.1 4.6 3.6 4.9 4.1 4.0 2.6 6.0

Date and initials of person examining contents: JB

Temperature should be above freezing to 6°C

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 holding time:	☒Yes ☐No ☐N/A	5.	
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6.	NO_3/NH_4 pH
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.	Extra Container received for IW-74-201601 for Microbial Insights
Pace containers used:	☒Yes ☐No ☐N/A		
Containers intact:	☒Yes ☐No ☐N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.	
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.	
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☒Yes ☐No ☐N/A	13.	
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	14.	
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A		
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☒Yes ☐No	Initial when completed	Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): Cancel	☒Yes ☐No ☐N/A	15.	
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.	
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:	
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☒N/A	18.	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution: * Per Wendy - forward Microbial Insights Container to correct lab. CBL 01/13/16.

Project Manager Review: CBL Date: 01/13/16

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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 4

Section A — Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	

Section B — Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C — Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D — Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-40R-201601	WT	G	1/12/16	0935				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	001
2	IW-72-201601	WT	G	1/12/16	0930				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	002
3	IW-74-201601	WT	G	1/12/16	1055				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	003
4	IW-73-201601	WT	G	1/12/16	1410				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	004
5	MW-41R-201601	WT	G	1/12/16	1120				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	005
6	IW-76-201601	WT	G	1/12/16	1600				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	006
7	MW-39R-201601	WT	G	1/12/16	1315				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	007
8	MW-46R-201601	WT	G	1/12/16	1556				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	008
9	MW-55R-201601	WT	G	1/12/16	0855				14	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	MS/MSD 009
10	MW-68-201601	WT	G	1/12/16	1112				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	010
11	RW-69-201601	WT	G	1/12/16	1330				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	011
12	TMW-6-201601	WT	G	1/12/16	1645				14	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	MS/MSD 012

Pace Project No./ Lab I.D.: 60211085

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Level IV data package required	Wendy Stonestreet	1/12/16	1900		1/13	0855

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM/DD/YY): 1/12/16

*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-Feb-2007

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical™ www.pacelabs.com

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

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 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
10 1	DUP-07-201601	WT	G	4/12/16	1120				3				X						X										N	(3) DG9H 020
11 2	DUP-06-201601	WT	G	4/12/16	935				3				X						X										N	021
11 3	DUP-05-201601	WT	G	4/12/16	1055				3				X						X										N	022
12 4	MW-27-201601 BP3U BP3H AG3S BP3S BP3N	WT	G	4/12/16	0920	BP3Z			11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	013 (3) DG9H
12 5	MW-31R-201601	WT	G	4/12/16	1510				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	014
12 6	MW-32R-201601	WT	G	4/12/16	1715				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	7 day hold time (3) DG9H
12 7	MW-97-201601	WT	G	4/12/16	1300				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	(3) DG9H 016
13 8	MW-183-201601	WT	G	4/12/16	903				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	017
13 9	MW-96-201601	WT	G	4/12/16	1105				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	018
13 10	MW-89-201601	WT	G	4/12/16	1720				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	019
13 11	DUP-10-201601 BP3U	WT	G	4/12/16	1015				3				X						X										N	023
13 12	MW-58R-201601 BP3U AG3S BP3S BP3N	WT	G	4/12/16	1015	BP3Z			11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	020

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Wendy Stonestreet	1/12/16	1900		1/13	0955	3.6	Y	Y	Y
							4.9	Y	Y	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Wendy Stonestreet				
SIGNATURE of SAMPLER:	Wendy Stonestreet	DATE Signed (MM/DD/YY): 1/12/16			

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	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	343750600

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	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 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-88-201601 BP3U AG3S BP3S BP3N	WT	G	1/12/16	1335	BP3U			11	X	X	X	X				X		X	X	X	X		X	X	X	X	X	N	(3)DG4H (3)DG4H 021
2	EB-04-201601	WT	G	1/12/16	1645				3	X	X	X	X						X										N	041
3	EB-03-201601	WT	G	1/12/16	1710				3				X						X										N	035
4	ITMW-20-201601	WT	G	1/12/16	1535				14	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N	MS/MSD (6)DG4H 022
5	TB-07-201601	WT	G	1/12/16	—				2				X						X										N	(2)DG4H 036
6	MW-63R-201601	WT	G	1/12/16	0910				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N	(3)DG4H 023
7	TB-08-201601	WT	G	1/12/16	—				2				X						X										N	(2)DG4H 037
8	TB-09-201601	WT	G	1/12/16	—				2				X						X										N	038
9	MW-22-201601	WT	G	1/12/16	1525				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N	(3)DG4H 024
10	ITMW-14-201601	WT	G	1/12/16	1335				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N	025
11	MW-90-201601	WT	G	1/12/16	1115				14	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N	MS/MSD (6)DG4H 026
12	ITMW-2-201601	WT	G	1/12/16	1520				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N	(3)DG4H 027

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Wendy Stonestreet / RE	1/12/16	1900		1/13	0855	411	Y	Y	Y
							410	Y	Y	Y

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Wendy Stonestreet					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 1/12/16				

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Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
14 1	TMW-4-201601 BP3N AG3S DP3S BP3N	WT	G	1/12/16	1325	BP3Z			11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	N	(3) DG4H (3) BP4N	028
14 2	MW-28-201601 ↓ ↓ ↓ ↓	WT	G	1/12/16	1150	↓			14	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	(6) DG4H	029
3	TB-10-201601	WT	G	1/12/16	—				2				X				X		X										N	(2) DG4H	039
4	TB-11-201601	WT	G	1/12/16	—				2				X				X		X										N		040
5	TB-12-201601	WT	G	1/12/16	—				2				X				X		X										N		041
6	TB-13-201601	WT	G	1/12/16	—				2				X				X		X										N		042
7	TB-14-201601	WT	G	1/12/16	—				2				X				X		X										N		043
8																													N		
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Wendy Stonestreet	1/12/16	1900		1/13	0855	2.6	y	y	y
							6.0	y	y	y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM/DD/YY): 1/12/16

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

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 27, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60211236

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 14, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

Dallas Certification IDs:

400 West Bethany Dr Suite 190, Allen, TX 75013
EPA# TX00074
Texas Certification #: T104704232-15-12
Texas Certification #: T104704232-14-8
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 2014-055
Louisiana Certification #: 02007

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60211236001	MW-87-201601	Water	01/13/16 08:50	01/14/16 14:00
60211236002	MW-93-201601	Water	01/13/16 14:23	01/14/16 14:00
60211236003	MW-94-201601	Water	01/13/16 11:02	01/14/16 14:00
60211236004	MW-95-201601	Water	01/13/16 13:06	01/14/16 14:00
60211236005	MW-26-201601	Water	01/13/16 11:10	01/14/16 14:00
60211236006	ITMW-1-201601	Water	01/13/16 16:30	01/14/16 14:00
60211236007	MW-38-201601	Water	01/13/16 15:00	01/14/16 14:00
60211236008	MW-92-201601	Water	01/13/16 14:00	01/14/16 14:00
60211236009	ITMW-13-201601	Water	01/13/16 11:30	01/14/16 14:00
60211236010	ITMW-11-201601	Water	01/13/16 15:30	01/14/16 14:00
60211236011	ITMW-12-201601	Water	01/13/16 13:40	01/14/16 14:00
60211236012	ITMW-15-201601	Water	01/13/16 09:30	01/14/16 14:00
60211236013	ITMW-21-201601	Water	01/13/16 09:06	01/14/16 14:00
60211236014	ITMW-7-201601	Water	01/13/16 11:42	01/14/16 14:00
60211236015	MW-182-201601	Water	01/13/16 14:20	01/14/16 14:00
60211236016	ITMW-10-201601	Water	01/13/16 16:26	01/14/16 14:00
60211236017	ITMW-18-201601	Water	01/13/16 09:25	01/14/16 14:00
60211236018	ITMW-19-201601	Water	01/13/16 14:50	01/14/16 14:00
60211236019	ITMW-9-201601	Water	01/13/16 11:45	01/14/16 14:00
60211236020	MW-91-201601	Water	01/13/16 16:30	01/14/16 14:00
60211236021	MW-85-201601	Water	01/13/16 11:20	01/14/16 14:00
60211236022	MW-25-201601	Water	01/13/16 13:50	01/14/16 14:00
60211236023	MW-86-201601	Water	01/13/16 15:45	01/14/16 14:00
60211236024	ITMW-17-201601	Water	01/13/16 13:15	01/14/16 14:00
60211236025	MW-172-201601	Water	01/13/16 15:00	01/14/16 14:00
60211236026	ITMW-16-201601	Water	01/13/16 09:20	01/14/16 14:00
60211236027	MW-29-201601	Water	01/13/16 09:20	01/14/16 14:00
60211236028	DUP-09-201601	Water	01/13/16 08:50	01/14/16 14:00
60211236029	DUP-02-201601	Water	01/13/16 12:00	01/14/16 14:00
60211236030	DUP-04-201601	Water	01/13/16 11:45	01/14/16 14:00
60211236031	DUP-03-201601	Water	01/13/16 15:30	01/14/16 14:00
60211236032	EB-05-201601	Water	01/13/16 16:45	01/14/16 14:00
60211236033	EB-06-201601	Water	01/13/16 16:50	01/14/16 14:00
60211236034	DUP-01-201601	Water	01/13/16 16:26	01/14/16 14:00
60211236035	TB-19-201601	Water	01/13/16 08:00	01/14/16 14:00
60211236036	TB-15-201601	Water	01/13/16 08:00	01/14/16 14:00
60211236037	TB-16-201601	Water	01/13/16 08:00	01/14/16 14:00

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60211236038	**TB-17-201601**	Water	01/13/16 08:00	01/14/16 14:00
60211236039	**TB-18-201601**	Water	01/13/16 08:00	01/14/16 14:00
60211236040	**DUP-08-201601**	Water	01/13/16 16:30	01/14/16 14:00
60211236041	**TB-20-201601**	Water	01/13/16 08:00	01/14/16 14:00

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Lenexa, KS 66219
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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60211236001	**MW-87-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236002	**MW-93-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236003	**MW-94-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236004	**MW-95-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236005	**MW-26-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236006	**ITMW-1-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236007	**MW-38-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236008	**MW-92-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236009	**ITMW-13-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236010	**ITMW-11-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236011	**ITMW-12-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236012	**ITMW-15-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236013	**ITMW-21-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236014	**ITMW-7-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236015	**MW-182-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K

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Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236016	**ITMW-10-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236017	**ITMW-18-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236018	**ITMW-19-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236019	**ITMW-9-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236020	**MW-91-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-P E	MRU	1	PASI-D
60211236021	**MW-85-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236022	**MW-25-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236023	**MW-86-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236024	**ITMW-17-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236025	**MW-172-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236026	**ITMW-16-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236027	**MW-29-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211236028	**DUP-09-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211236029	**DUP-02-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211236030	**DUP-04-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211236031	**DUP-03-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211236032	**EB-05-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211236033	**EB-06-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211236034	**DUP-01-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211236035	**TB-19-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211236036	**TB-15-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211236037	**TB-16-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211236038	**TB-17-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211236039	**TB-18-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211236040	**DUP-08-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211236041	**TB-20-201601**	EPA 5030B/8260	PGH	38	PASI-K

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Method: **EPA 8015 - Alcohol**
Description: Alcohol by Direct Inject GCFID
Client: Environ_AR
Date: January 27, 2016

General Information:
27 samples were analyzed for EPA 8015 - Alcohol. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Environ_AR
Date: January 27, 2016

General Information:
27 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 27, 2016

General Information:
41 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: MSV/73768

B: Analyte was detected in the associated method blank.
- BLANK for HBN 415880 [MSV/7376 (Lab ID: 1697618)
  - Chloromethane

QC Batch: MSV/73784

B: Analyte was detected in the associated method blank.
- BLANK for HBN 416088 [MSV/7378 (Lab ID: 1698830)
  - Bromomethane
  - Carbon disulfide
  - Chloromethane

QC Batch: MSV/73826

B: Analyte was detected in the associated method blank.
- BLANK for HBN 416377 [MSV/7382 (Lab ID: 1699805)
  - Bromomethane
  - Chloromethane
  - Methylene chloride

QC Batch: MSV/73827

B: Analyte was detected in the associated method blank.
- BLANK for HBN 416378 [MSV/7382 (Lab ID: 1699807)
  - Bromomethane

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 27, 2016

QC Batch: MSV/73827

B: Analyte was detected in the associated method blank.
- Chloromethane
- Methylene chloride

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/73768

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 1697619)
  - Acetone

QC Batch: MSV/73774

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 1697881)
  - Acetone

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73768
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73769
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73771
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73774
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73784
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73785
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73805
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73826
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73827
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Environ_AR
Date: January 27, 2016

General Information:
27 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Method: **SM 3500-Fe B#4**
Description: Iron, Ferric (Calculation)
Client: Environ_AR
Date: January 27, 2016

General Information:
27 samples were analyzed for SM 3500-Fe B#4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Ferrous Fe performed in the field
- QC Batch: WET / 59748
- QC Batch: WET / 59749

Ferrous Fe perfromed in the field
- QC Batch: WET / 59750

Analyte Comments:

QC Batch: WET/59750

1e: Total Iron was confirmed.
- MW-93-201601 (Lab ID: 60211236002)
  - Iron, Ferric
- MW-95-201601 (Lab ID: 60211236004)
  - Iron, Ferric

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Environ_AR
Date: January 27, 2016

General Information:
27 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- ITMW-1-201601 (Lab ID: 60211236006)
- ITMW-10-201601 (Lab ID: 60211236016)
- ITMW-11-201601 (Lab ID: 60211236010)
- ITMW-12-201601 (Lab ID: 60211236011)
- ITMW-13-201601 (Lab ID: 60211236009)
- ITMW-15-201601 (Lab ID: 60211236012)
- ITMW-16-201601 (Lab ID: 60211236026)
- ITMW-17-201601 (Lab ID: 60211236024)
- ITMW-18-201601 (Lab ID: 60211236017)
- ITMW-19-201601 (Lab ID: 60211236018)
- ITMW-21-201601 (Lab ID: 60211236013)
- ITMW-7-201601 (Lab ID: 60211236014)
- ITMW-9-201601 (Lab ID: 60211236019)
- MW-172-201601 (Lab ID: 60211236025)
- MW-182-201601 (Lab ID: 60211236015)
- MW-25-201601 (Lab ID: 60211236022)
- MW-26-201601 (Lab ID: 60211236005)
- MW-29-201601 (Lab ID: 60211236027)
- MW-38-201601 (Lab ID: 60211236007)
- MW-85-201601 (Lab ID: 60211236021)
- MW-86-201601 (Lab ID: 60211236023)
- MW-87-201601 (Lab ID: 60211236001)
- MW-91-201601 (Lab ID: 60211236020)
- MW-92-201601 (Lab ID: 60211236008)
- MW-93-201601 (Lab ID: 60211236002)
- MW-94-201601 (Lab ID: 60211236003)
- MW-95-201601 (Lab ID: 60211236004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Environ_AR
Date: January 27, 2016

Additional Comments:

Batch Comments:

Field pH
- QC Batch: WET / 59755
- QC Batch: WET / 59756

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Environ_AR
Date: January 27, 2016

General Information:
27 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WET/59625

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- ITMW-11-201601 (Lab ID: 60211236010)
  - Sulfide, Total
- ITMW-13-201601 (Lab ID: 60211236009)
  - Sulfide, Total

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Environ_AR
Date: January 27, 2016

General Information:
27 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Method: **EPA 350.1**
Description: 350.1 Ammonia
Client: Environ_AR
Date: January 27, 2016

General Information:
27 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37793

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211236001,60211236002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1699384)
  - Nitrogen, Ammonia
- MS (Lab ID: 1699385)
  - Nitrogen, Ammonia

QC Batch: WETA/37794

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211236021,60211236022

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1699389)
  - Nitrogen, Ammonia
- MS (Lab ID: 1699390)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: Environ_AR
Date: January 27, 2016

General Information:
27 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37729

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211136001,60211191002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1697437)
  - Nitrogen, NO2 plus NO3
  - Nitrogen, Nitrate
- MS (Lab ID: 1697438)
  - Nitrogen, NO2 plus NO3
  - Nitrogen, Nitrate
  - Nitrogen, Nitrite

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Method: **SM 4500-CO2 D**
Description: Total Carbon Dioxide Calc
Client: Environ_AR
Date: January 27, 2016

General Information:
27 samples were analyzed for SM 4500-CO2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Method: **SM 5310C**
Description: 5310C TOC
Client: Environ_AR
Date: January 27, 2016

General Information:
27 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37847

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211236005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1701677)
  - Total Organic Carbon

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Method: **SM 4500-P E**
Description: SM4500P-E, Total Phosphorus
Client: Environ_AR
Date: January 27, 2016

General Information:
27 samples were analyzed for SM 4500-P E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with SM4500-P B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-87-201601 **Lab ID: 60211236001** Collected: 01/13/16 08:50 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 18:12	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**19.7J**	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:06	7439-89-6	
Manganese	**47.4**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:06	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 19:13	67-64-1	
Benzene	**0.17J**	ug/L	1.0	0.060	1		01/15/16 19:13	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 19:13	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 19:13	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 19:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 19:13	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 19:13	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 19:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 19:13	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 19:13	75-00-3	
Chloroform	**0.35J**	ug/L	1.0	0.14	1		01/15/16 19:13	67-66-3	
Chloromethane	**0.21J**	ug/L	1.0	0.080	1		01/15/16 19:13	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 19:13	124-48-1	
1,1-Dichloroethane	**2.8**	ug/L	1.0	0.050	1		01/15/16 19:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 19:13	107-06-2	
1,1-Dichloroethene	**8.2**	ug/L	1.0	0.20	1		01/15/16 19:13	75-35-4	
cis-1,2-Dichloroethene	**61.9**	ug/L	1.0	0.080	1		01/15/16 19:13	156-59-2	
trans-1,2-Dichloroethene	**0.78J**	ug/L	1.0	0.20	1		01/15/16 19:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 19:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 19:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 19:13	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 19:13	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 19:13	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 19:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 19:13	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 19:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 19:13	79-34-5	
Tetrachloroethene	**4.1**	ug/L	1.0	0.10	1		01/15/16 19:13	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 19:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 19:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 19:13	79-00-5	
Trichloroethene	**757**	ug/L	20.0	3.4	20		01/19/16 15:34	79-01-6	
Vinyl chloride	**0.47J**	ug/L	1.0	0.13	1		01/15/16 19:13	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 19:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/15/16 19:13	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/15/16 19:13	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 19:13	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 19:13		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-87-201601 **Lab ID: 60211236001** Collected: 01/13/16 08:50 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**54.9**	mg/L	20.0	2.0	1		01/25/16 10:02		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 10:02		
Alkalinity, Total as CaCO3	**54.9**	mg/L	20.0	2.0	1		01/25/16 10:02		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.7**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**61.5**	mg/L	5.0	2.5	5		01/18/16 11:21	16887-00-6	
Sulfate	**12.1**	mg/L	1.0	0.24	1		01/18/16 10:29	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 08:16	7664-41-7	M1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**3.2**	mg/L	0.10	0.014	1		01/14/16 18:32		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:32		
Nitrogen, NO2 plus NO3	**3.2**	mg/L	0.10	0.014	1		01/14/16 18:32		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**267**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.53J**	mg/L	1.0	0.50	1		01/21/16 15:54	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.088**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:22		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-93-201601 **Lab ID: 60211236002** Collected: 01/13/16 14:23 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 18:34	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**326**	ug/L	50.0	9.0	1	01/25/16 14:30	01/26/16 15:27	7439-89-6	
Manganese	**164**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:12	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/20/16 16:26	67-64-1	
Benzene	**0.12J**	ug/L	1.0	0.060	1		01/20/16 16:26	71-43-2	
Bromodichloromethane	**0.21J**	ug/L	1.0	0.19	1		01/20/16 16:26	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/20/16 16:26	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/20/16 16:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/20/16 16:26	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/20/16 16:26	75-15-0	
Carbon tetrachloride	**0.38J**	ug/L	1.0	0.18	1		01/20/16 16:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/20/16 16:26	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/20/16 16:26	75-00-3	
Chloroform	**4.1**	ug/L	1.0	0.14	1		01/20/16 16:26	67-66-3	
Chloromethane	**0.19J**	ug/L	1.0	0.080	1		01/20/16 16:26	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/20/16 16:26	124-48-1	
1,1-Dichloroethane	**0.30J**	ug/L	1.0	0.050	1		01/20/16 16:26	75-34-3	
1,2-Dichloroethane	**0.14J**	ug/L	1.0	0.12	1		01/20/16 16:26	107-06-2	
1,1-Dichloroethene	**25.0**	ug/L	1.0	0.20	1		01/20/16 16:26	75-35-4	
cis-1,2-Dichloroethene	**103**	ug/L	1.0	0.080	1		01/20/16 16:26	156-59-2	
trans-1,2-Dichloroethene	**2.1**	ug/L	1.0	0.20	1		01/20/16 16:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/20/16 16:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/20/16 16:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/20/16 16:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/20/16 16:26	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/20/16 16:26	591-78-6	
Methylene chloride	**3.3**	ug/L	1.0	0.15	1		01/20/16 16:26	75-09-2	B
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/20/16 16:26	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/20/16 16:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/20/16 16:26	79-34-5	
Tetrachloroethene	**5.8**	ug/L	1.0	0.10	1		01/20/16 16:26	127-18-4	
Toluene	**0.27J**	ug/L	1.0	0.17	1		01/20/16 16:26	108-88-3	
1,1,1-Trichloroethane	**0.47J**	ug/L	1.0	0.11	1		01/20/16 16:26	71-55-6	
1,1,2-Trichloroethane	**1.5**	ug/L	1.0	0.20	1		01/20/16 16:26	79-00-5	
Trichloroethene	**21200**	ug/L	200	34.0	200		01/15/16 19:42	79-01-6	
Vinyl chloride	**2.6**	ug/L	1.0	0.13	1		01/20/16 16:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/20/16 16:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	77-130		1		01/20/16 16:26	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	81-127		1		01/20/16 16:26	17060-07-0	
Toluene-d8 (S)	105	%	80-120		1		01/20/16 16:26	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/20/16 16:26		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-93-201601 **Lab ID: 60211236002** Collected: 01/13/16 14:23 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 10:06		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 10:06		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/25/16 10:06		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/27/16 00:00	7439-89-6	1e
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.2**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**254**	mg/L	20.0	10.0	20		01/18/16 12:30	16887-00-6	
Sulfate	**2.5**	mg/L	1.0	0.24	1		01/18/16 12:12	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 08:18	7664-41-7	M1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.4**	mg/L	0.10	0.014	1		01/14/16 18:33		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:33		
Nitrogen, NO2 plus NO3	**2.4**	mg/L	0.10	0.014	1		01/14/16 18:33		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/21/16 16:07	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.17**	mg/L	0.030	0.010	1	01/22/16 10:27	01/22/16 16:05		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-94-201601 **Lab ID: 60211236003** Collected: 01/13/16 11:02 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 18:45	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	ND	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:14	7439-89-6	
Manganese	**60.0**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:14	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**29.4**	ug/L	10.0	1.9	1		01/20/16 14:44	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/20/16 14:44	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/20/16 14:44	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/20/16 14:44	75-25-2	
Bromomethane	**7.0**	ug/L	5.0	0.16	1		01/20/16 14:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/20/16 14:44	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/20/16 14:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/20/16 14:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/20/16 14:44	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/20/16 14:44	75-00-3	
Chloroform	**2.2**	ug/L	1.0	0.14	1		01/20/16 14:44	67-66-3	
Chloromethane	**8.2**	ug/L	1.0	0.080	1		01/20/16 14:44	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/20/16 14:44	124-48-1	
1,1-Dichloroethane	**1.2**	ug/L	1.0	0.050	1		01/20/16 14:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/20/16 14:44	107-06-2	
1,1-Dichloroethene	**3.5**	ug/L	1.0	0.20	1		01/20/16 14:44	75-35-4	
cis-1,2-Dichloroethene	**30.3**	ug/L	1.0	0.080	1		01/20/16 14:44	156-59-2	
trans-1,2-Dichloroethene	**5.2**	ug/L	1.0	0.20	1		01/20/16 14:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/20/16 14:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/20/16 14:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/20/16 14:44	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/20/16 14:44	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/20/16 14:44	591-78-6	
Methylene chloride	**1.2**	ug/L	1.0	0.15	1		01/20/16 14:44	75-09-2	B
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/20/16 14:44	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/20/16 14:44	100-42-5	
1,1,2,2-Tetrachloroethane	**1.1**	ug/L	1.0	0.15	1		01/20/16 14:44	79-34-5	
Tetrachloroethene	**0.58J**	ug/L	1.0	0.10	1		01/20/16 14:44	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/20/16 14:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/20/16 14:44	71-55-6	
1,1,2-Trichloroethane	**0.52J**	ug/L	1.0	0.20	1		01/20/16 14:44	79-00-5	
Trichloroethene	**936**	ug/L	20.0	3.4	20		01/20/16 14:59	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/20/16 14:44	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/20/16 14:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	77-130		1		01/20/16 14:44	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	81-127		1		01/20/16 14:44	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/20/16 14:44	2037-26-5	
Preservation pH	**3.0**		0.10	0.10	1		01/20/16 14:44		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-94-201601 **Lab ID: 60211236003** Collected: 01/13/16 11:02 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**24.1**	mg/L	20.0	2.0	1		01/25/16 10:09		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 10:09		
Alkalinity, Total as CaCO3	**24.1**	mg/L	20.0	2.0	1		01/25/16 10:09		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.2**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**127**	mg/L	10.0	5.0	10		01/18/16 13:38	16887-00-6	
Sulfate	**559**	mg/L	50.0	11.8	50		01/19/16 05:58	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 08:20	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.1**	mg/L	0.10	0.014	1		01/14/16 18:34		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:34		
Nitrogen, NO2 plus NO3	**2.1**	mg/L	0.10	0.014	1		01/14/16 18:34		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**355**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.60J**	mg/L	1.0	0.50	1		01/25/16 13:38	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.17**	mg/L	0.030	0.010	1	01/22/16 10:27	01/22/16 16:06		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-95-201601 **Lab ID: 60211236004** Collected: 01/13/16 13:06 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 18:56	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	ND	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:17	7439-89-6	
Manganese	**285**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:17	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/20/16 16:40	67-64-1	
Benzene	**0.12J**	ug/L	1.0	0.060	1		01/20/16 16:40	71-43-2	
Bromodichloromethane	**0.27J**	ug/L	1.0	0.19	1		01/20/16 16:40	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/20/16 16:40	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/20/16 16:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/20/16 16:40	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/20/16 16:40	75-15-0	
Carbon tetrachloride	**0.27J**	ug/L	1.0	0.18	1		01/20/16 16:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/20/16 16:40	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/20/16 16:40	75-00-3	
Chloroform	**5.3**	ug/L	1.0	0.14	1		01/20/16 16:40	67-66-3	
Chloromethane	**0.36J**	ug/L	1.0	0.080	1		01/20/16 16:40	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/20/16 16:40	124-48-1	
1,1-Dichloroethane	**0.44J**	ug/L	1.0	0.050	1		01/20/16 16:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/20/16 16:40	107-06-2	
1,1-Dichloroethene	**40.2**	ug/L	1.0	0.20	1		01/20/16 16:40	75-35-4	
cis-1,2-Dichloroethene	**161**	ug/L	1.0	0.080	1		01/20/16 16:40	156-59-2	
trans-1,2-Dichloroethene	**1.5**	ug/L	1.0	0.20	1		01/20/16 16:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/20/16 16:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/20/16 16:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/20/16 16:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/20/16 16:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/20/16 16:40	591-78-6	
Methylene chloride	**4.2**	ug/L	1.0	0.15	1		01/20/16 16:40	75-09-2	B
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/20/16 16:40	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/20/16 16:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/20/16 16:40	79-34-5	
Tetrachloroethene	**7.2**	ug/L	1.0	0.10	1		01/20/16 16:40	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/20/16 16:40	108-88-3	
1,1,1-Trichloroethane	**0.26J**	ug/L	1.0	0.11	1		01/20/16 16:40	71-55-6	
1,1,2-Trichloroethane	**2.2**	ug/L	1.0	0.20	1		01/20/16 16:40	79-00-5	
Trichloroethene	**24700**	ug/L	200	34.0	200		01/15/16 19:57	79-01-6	
Vinyl chloride	**31.0**	ug/L	1.0	0.13	1		01/20/16 16:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/20/16 16:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	77-130		1		01/20/16 16:40	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	81-127		1		01/20/16 16:40	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		01/20/16 16:40	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/20/16 16:40		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-95-201601 **Lab ID: 60211236004** Collected: 01/13/16 13:06 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**25.3**	mg/L	20.0	2.0	1		01/25/16 10:14		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 10:14		
Alkalinity, Total as CaCO3	**25.3**	mg/L	20.0	2.0	1		01/25/16 10:14		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/27/16 00:00	7439-89-6	1e
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.3**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**312**	mg/L	20.0	10.0	20		01/18/16 14:13	16887-00-6	
Sulfate	**2.7**	mg/L	1.0	0.24	1		01/18/16 13:56	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 08:25	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.2**	mg/L	0.10	0.014	1		01/14/16 18:37		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:37		
Nitrogen, NO2 plus NO3	**1.2**	mg/L	0.10	0.014	1		01/14/16 18:37		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**281**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/25/16 13:51	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.16**	mg/L	0.030	0.010	1	01/22/16 10:27	01/22/16 16:06		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-26-201601 **Lab ID: 60211236005** Collected: 01/13/16 11:10 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 19:08	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	ND	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:23	7439-89-6	
Manganese	**778**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:23	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 17:02	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 17:02	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 17:02	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 17:02	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 17:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 17:02	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 17:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 17:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 17:02	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 17:02	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 17:02	67-66-3	
Chloromethane	**0.29J**	ug/L	1.0	0.080	1		01/15/16 17:02	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 17:02	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 17:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 17:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 17:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 17:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 17:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 17:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 17:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 17:02	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 17:02	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 17:02	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 17:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 17:02	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 17:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 17:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 17:02	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 17:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 17:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 17:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 17:02	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 17:02	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 17:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/15/16 17:02	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/15/16 17:02	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 17:02	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 17:02		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-26-201601 **Lab ID: 60211236005** Collected: 01/13/16 11:10 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**27.2**	mg/L	20.0	2.0	1		01/25/16 10:29		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 10:29		
Alkalinity, Total as CaCO3	**27.2**	mg/L	20.0	2.0	1		01/25/16 10:29		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.3**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**277**	mg/L	20.0	10.0	20		01/18/16 14:47	16887-00-6	
Sulfate	**9.6**	mg/L	1.0	0.24	1		01/18/16 14:30	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 08:26	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.4**	mg/L	0.10	0.014	1		01/14/16 18:38		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:38		
Nitrogen, NO2 plus NO3	**2.4**	mg/L	0.10	0.014	1		01/14/16 18:38		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**284**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/26/16 18:10	7440-44-0	M1
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.12**	mg/L	0.030	0.010	1	01/22/16 10:27	01/22/16 16:07		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-1-201601 **Lab ID: 60211236006** Collected: 01/13/16 16:30 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 19:19	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	ND	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:25	7439-89-6	
Manganese	**11.4**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:25	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 17:17	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 17:17	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 17:17	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 17:17	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 17:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 17:17	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 17:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 17:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 17:17	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 17:17	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 17:17	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/15/16 17:17	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 17:17	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 17:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 17:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 17:17	75-35-4	
cis-1,2-Dichloroethene	**8.9**	ug/L	1.0	0.080	1		01/15/16 17:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 17:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 17:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 17:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 17:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 17:17	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 17:17	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 17:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 17:17	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 17:17	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 17:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 17:17	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 17:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 17:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 17:17	79-00-5	
Trichloroethene	**19.9**	ug/L	1.0	0.17	1		01/15/16 17:17	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 17:17	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 17:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		01/15/16 17:17	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		01/15/16 17:17	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 17:17	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 17:17		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-1-201601 **Lab ID: 60211236006** Collected: 01/13/16 16:30 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**62.6**	mg/L	20.0	2.0	1		01/25/16 10:34		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 10:34		
Alkalinity, Total as CaCO3	**62.6**	mg/L	20.0	2.0	1		01/25/16 10:34		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.0**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:17	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**91.9**	mg/L	10.0	5.0	10		01/18/16 15:22	16887-00-6	
Sulfate	**12.6**	mg/L	2.0	0.47	2		01/18/16 15:04	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 08:27	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.77**	mg/L	0.10	0.014	1		01/14/16 18:38		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:38		
Nitrogen, NO2 plus NO3	**0.77**	mg/L	0.10	0.014	1		01/14/16 18:38		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**180**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/26/16 18:36	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.12**	mg/L	0.030	0.010	1	01/22/16 10:27	01/22/16 16:07		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-38-201601 **Lab ID: 60211236007** Collected: 01/13/16 15:00 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 19:30	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**2600**	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:28	7439-89-6	
Manganese	**2520**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:28	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/20/16 15:57	67-64-1	
Benzene	**0.28J**	ug/L	1.0	0.060	1		01/20/16 15:57	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/20/16 15:57	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/20/16 15:57	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/20/16 15:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/20/16 15:57	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/20/16 15:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/20/16 15:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/20/16 15:57	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/20/16 15:57	75-00-3	
Chloroform	**0.75J**	ug/L	1.0	0.14	1		01/20/16 15:57	67-66-3	
Chloromethane	**1.2**	ug/L	1.0	0.080	1		01/20/16 15:57	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/20/16 15:57	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/20/16 15:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/20/16 15:57	107-06-2	
1,1-Dichloroethene	**15.1**	ug/L	1.0	0.20	1		01/20/16 15:57	75-35-4	
cis-1,2-Dichloroethene	**1180**	ug/L	50.0	4.0	50		01/15/16 20:11	156-59-2	
trans-1,2-Dichloroethene	**21.6**	ug/L	1.0	0.20	1		01/20/16 15:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/20/16 15:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/20/16 15:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/20/16 15:57	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/20/16 15:57	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/20/16 15:57	591-78-6	
Methylene chloride	**0.70J**	ug/L	1.0	0.15	1		01/20/16 15:57	75-09-2	B
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/20/16 15:57	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/20/16 15:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/20/16 15:57	79-34-5	
Tetrachloroethene	**0.82J**	ug/L	1.0	0.10	1		01/20/16 15:57	127-18-4	
Toluene	**0.26J**	ug/L	1.0	0.17	1		01/20/16 15:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/20/16 15:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/20/16 15:57	79-00-5	
Trichloroethene	**3680**	ug/L	50.0	8.5	50		01/15/16 20:11	79-01-6	
Vinyl chloride	**84.3**	ug/L	1.0	0.13	1		01/20/16 15:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/20/16 15:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	77-130		1		01/20/16 15:57	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	81-127		1		01/20/16 15:57	17060-07-0	
Toluene-d8 (S)	104	%	80-120		1		01/20/16 15:57	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/20/16 15:57		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-38-201601 **Lab ID: 60211236007** Collected: 01/13/16 15:00 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**241**	mg/L	20.0	2.0	1		01/25/16 10:44		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 10:44		
Alkalinity, Total as CaCO3	**241**	mg/L	20.0	2.0	1		01/25/16 10:44		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.93**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**7.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**25.6**	mg/L	5.0	2.5	5		01/18/16 15:39	16887-00-6	
Sulfate	**48.4**	mg/L	5.0	1.2	5		01/18/16 15:39	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 08:28	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.066J**	mg/L	0.10	0.014	1		01/14/16 18:39		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:39		
Nitrogen, NO2 plus NO3	**0.066J**	mg/L	0.10	0.014	1		01/14/16 18:39		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**251**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**1.7**	mg/L	1.0	0.50	1		01/26/16 19:02	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.24**	mg/L	0.030	0.010	1	01/22/16 10:27	01/22/16 16:08		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-92-201601 **Lab ID: 60211236008** Collected: 01/13/16 14:00 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 19:41	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	ND	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:30	7439-89-6	
Manganese	**147**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:30	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**19.1**	ug/L	10.0	1.9	1		01/19/16 13:38	67-64-1	
Benzene	**0.13J**	ug/L	1.0	0.060	1		01/19/16 13:38	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/19/16 13:38	75-27-4	
Bromoform	**1.9**	ug/L	1.0	0.070	1		01/19/16 13:38	75-25-2	
Bromomethane	**1.8J**	ug/L	5.0	0.16	1		01/19/16 13:38	74-83-9	B
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/19/16 13:38	78-93-3	
Carbon disulfide	**0.49J**	ug/L	5.0	0.12	1		01/19/16 13:38	75-15-0	B
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/19/16 13:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/19/16 13:38	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/19/16 13:38	75-00-3	
Chloroform	**0.92J**	ug/L	1.0	0.14	1		01/19/16 13:38	67-66-3	
Chloromethane	**17.4**	ug/L	1.0	0.080	1		01/19/16 13:38	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/19/16 13:38	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/19/16 13:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/19/16 13:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/19/16 13:38	75-35-4	
cis-1,2-Dichloroethene	**7.1**	ug/L	1.0	0.080	1		01/19/16 13:38	156-59-2	
trans-1,2-Dichloroethene	**1.2**	ug/L	1.0	0.20	1		01/19/16 13:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/19/16 13:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/19/16 13:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/19/16 13:38	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/19/16 13:38	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/19/16 13:38	591-78-6	
Methylene chloride	**1.1**	ug/L	1.0	0.15	1		01/19/16 13:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/19/16 13:38	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/19/16 13:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/19/16 13:38	79-34-5	
Tetrachloroethene	**0.46J**	ug/L	1.0	0.10	1		01/19/16 13:38	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/19/16 13:38	108-88-3	
1,1,1-Trichloroethane	**1.3**	ug/L	1.0	0.11	1		01/19/16 13:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/19/16 13:38	79-00-5	
Trichloroethene	**1840**	ug/L	20.0	3.4	20		01/15/16 13:24	79-01-6	
Vinyl chloride	**0.66J**	ug/L	1.0	0.13	1		01/19/16 13:38	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/19/16 13:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	77-130		1		01/19/16 13:38	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	81-127		1		01/19/16 13:38	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/19/16 13:38	2037-26-5	
Preservation pH	**3.0**		0.10	0.10	1		01/19/16 13:38		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-92-201601 **Lab ID: 60211236008** Collected: 01/13/16 14:00 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**93.9**	mg/L	20.0	2.0	1		01/25/16 10:48		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 10:48		
Alkalinity, Total as CaCO3	**93.9**	mg/L	20.0	2.0	1		01/25/16 10:48		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.2**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**387**	mg/L	50.0	25.0	50		01/18/16 15:56	16887-00-6	
Sulfate	**566**	mg/L	50.0	11.8	50		01/18/16 15:56	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.12**	mg/L	0.10	0.046	1		01/20/16 08:29	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.5**	mg/L	0.10	0.014	1		01/14/16 18:40		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:40		
Nitrogen, NO2 plus NO3	**1.5**	mg/L	0.10	0.014	1		01/14/16 18:40		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**1320**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/26/16 19:15	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.18**	mg/L	0.030	0.010	1	01/22/16 10:27	01/22/16 16:09		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-13-201601 **Lab ID: 60211236009** Collected: 01/13/16 11:30 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 19:52	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	ND	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:32	7439-89-6	
Manganese	**5.4**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:32	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 18:15	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 18:15	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 18:15	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 18:15	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 18:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 18:15	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 18:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 18:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 18:15	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 18:15	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 18:15	67-66-3	
Chloromethane	**0.29J**	ug/L	1.0	0.080	1		01/15/16 18:15	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 18:15	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 18:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 18:15	107-06-2	
1,1-Dichloroethene	**0.29J**	ug/L	1.0	0.20	1		01/15/16 18:15	75-35-4	
cis-1,2-Dichloroethene	**26.7**	ug/L	1.0	0.080	1		01/15/16 18:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 18:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 18:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 18:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 18:15	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 18:15	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 18:15	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 18:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 18:15	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 18:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 18:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 18:15	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 18:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 18:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 18:15	79-00-5	
Trichloroethene	**47.6**	ug/L	1.0	0.17	1		01/15/16 18:15	79-01-6	
Vinyl chloride	**0.17J**	ug/L	1.0	0.13	1		01/15/16 18:15	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 18:15	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/15/16 18:15	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/15/16 18:15	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		01/15/16 18:15	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 18:15		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-13-201601 **Lab ID: 60211236009** Collected: 01/13/16 11:30 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**70.8**	mg/L	20.0	2.0	1		01/25/16 10:52		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 10:52		
Alkalinity, Total as CaCO3	**70.8**	mg/L	20.0	2.0	1		01/25/16 10:52		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.0**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.25	0.058	5		01/19/16 15:37	18496-25-8	D3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**19.1**	mg/L	2.0	1.0	2		01/18/16 16:13	16887-00-6	
Sulfate	**5.9**	mg/L	1.0	0.24	1		01/18/16 17:04	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 08:31	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.14**	mg/L	0.10	0.014	1		01/14/16 18:41		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:41		
Nitrogen, NO2 plus NO3	**0.14**	mg/L	0.10	0.014	1		01/14/16 18:41		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**221**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/26/16 19:28	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.14**	mg/L	0.030	0.010	1	01/22/16 10:27	01/22/16 16:09		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-11-201601 **Lab ID: 60211236010** Collected: 01/13/16 15:30 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 20:03	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	ND	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:34	7439-89-6	
Manganese	**13.0**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:34	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**2.6J**	ug/L	10.0	1.9	1		01/19/16 13:52	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/19/16 13:52	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/19/16 13:52	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/19/16 13:52	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/19/16 13:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/19/16 13:52	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/19/16 13:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/19/16 13:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/19/16 13:52	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/19/16 13:52	75-00-3	
Chloroform	**0.21J**	ug/L	1.0	0.14	1		01/19/16 13:52	67-66-3	
Chloromethane	**0.61J**	ug/L	1.0	0.080	1		01/19/16 13:52	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/19/16 13:52	124-48-1	
1,1-Dichloroethane	**0.55J**	ug/L	1.0	0.050	1		01/19/16 13:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/19/16 13:52	107-06-2	
1,1-Dichloroethene	**0.86J**	ug/L	1.0	0.20	1		01/19/16 13:52	75-35-4	
cis-1,2-Dichloroethene	**100**	ug/L	1.0	0.080	1		01/19/16 13:52	156-59-2	
trans-1,2-Dichloroethene	**1.4**	ug/L	1.0	0.20	1		01/19/16 13:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/19/16 13:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/19/16 13:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/19/16 13:52	10061-02-6	
Ethylbenzene	**0.27J**	ug/L	1.0	0.18	1		01/19/16 13:52	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/19/16 13:52	591-78-6	
Methylene chloride	**1.9**	ug/L	1.0	0.15	1		01/19/16 13:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/19/16 13:52	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/19/16 13:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/19/16 13:52	79-34-5	
Tetrachloroethene	**1.1**	ug/L	1.0	0.10	1		01/19/16 13:52	127-18-4	
Toluene	**3.1**	ug/L	1.0	0.17	1		01/19/16 13:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/19/16 13:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/19/16 13:52	79-00-5	
Trichloroethene	**605**	ug/L	10.0	1.7	10		01/15/16 13:09	79-01-6	
Vinyl chloride	**13.1**	ug/L	1.0	0.13	1		01/19/16 13:52	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/19/16 13:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	77-130		1		01/19/16 13:52	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	81-127		1		01/19/16 13:52	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/19/16 13:52	2037-26-5	
Preservation pH	**5.0**		0.10	0.10	1		01/19/16 13:52		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-11-201601 **Lab ID: 60211236010** Collected: 01/13/16 15:30 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**83.9**	mg/L	20.0	2.0	1		01/25/16 10:57		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 10:57		
Alkalinity, Total as CaCO3	**83.9**	mg/L	20.0	2.0	1		01/25/16 10:57		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.0**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.25	0.058	5		01/19/16 15:37	18496-25-8	D3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**6.4**	mg/L	1.0	0.50	1		01/19/16 09:13	16887-00-6	
Sulfate	**71.9**	mg/L	10.0	2.4	10		01/19/16 09:48	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 08:32	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.077J**	mg/L	0.10	0.014	1		01/14/16 18:42		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:42		
Nitrogen, NO2 plus NO3	**0.077J**	mg/L	0.10	0.014	1		01/14/16 18:42		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**227**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.0**	mg/L	1.0	0.50	1		01/26/16 20:07	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.17**	mg/L	0.030	0.010	1	01/22/16 10:27	01/22/16 16:09		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-12-201601 **Lab ID: 60211236011** Collected: 01/13/16 13:40 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 20:15	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	ND	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:36	7439-89-6	
Manganese	**11.5**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:36	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 19:28	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 19:28	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 19:28	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 19:28	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 19:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 19:28	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 19:28	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 19:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 19:28	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 19:28	75-00-3	
Chloroform	**0.37J**	ug/L	1.0	0.14	1		01/15/16 19:28	67-66-3	
Chloromethane	**0.83J**	ug/L	1.0	0.080	1		01/15/16 19:28	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 19:28	124-48-1	
1,1-Dichloroethane	**0.24J**	ug/L	1.0	0.050	1		01/15/16 19:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 19:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 19:28	75-35-4	
cis-1,2-Dichloroethene	**70.5**	ug/L	1.0	0.080	1		01/15/16 19:28	156-59-2	
trans-1,2-Dichloroethene	**9.8**	ug/L	1.0	0.20	1		01/15/16 19:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 19:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 19:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 19:28	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 19:28	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 19:28	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 19:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 19:28	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 19:28	100-42-5	
1,1,2,2-Tetrachloroethane	**0.53J**	ug/L	1.0	0.15	1		01/15/16 19:28	79-34-5	
Tetrachloroethene	**0.29J**	ug/L	1.0	0.10	1		01/15/16 19:28	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 19:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 19:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 19:28	79-00-5	
Trichloroethene	**465**	ug/L	10.0	1.7	10		01/19/16 15:48	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 19:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 19:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/15/16 19:28	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/15/16 19:28	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		01/15/16 19:28	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 19:28		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-12-201601 **Lab ID: 60211236011** Collected: 01/13/16 13:40 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**67.2**	mg/L	20.0	2.0	1		01/25/16 11:02		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 11:02		
Alkalinity, Total as CaCO3	**67.2**	mg/L	20.0	2.0	1		01/25/16 11:02		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.9**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**10.6**	mg/L	1.0	0.50	1		01/18/16 17:56	16887-00-6	
Sulfate	**120**	mg/L	20.0	4.7	20		01/18/16 18:13	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 08:33	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.084J**	mg/L	0.10	0.014	1		01/14/16 18:43		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:43		
Nitrogen, NO2 plus NO3	**0.084J**	mg/L	0.10	0.014	1		01/14/16 18:43		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**240**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.55J**	mg/L	1.0	0.50	1		01/26/16 20:20	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.13**	mg/L	0.030	0.010	1	01/22/16 10:27	01/22/16 16:09		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-15-201601 **Lab ID: 60211236012** Collected: 01/13/16 09:30 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 20:26	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**68.3**	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:39	7439-89-6	
Manganese	ND	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:39	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**2.5J**	ug/L	10.0	1.9	1		01/15/16 12:25	67-64-1	L1
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 12:25	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 12:25	75-27-4	
Bromoform	**1.7**	ug/L	1.0	0.070	1		01/15/16 12:25	75-25-2	
Bromomethane	**1.3J**	ug/L	5.0	0.16	1		01/15/16 12:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 12:25	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 12:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 12:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 12:25	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 12:25	75-00-3	
Chloroform	**0.36J**	ug/L	1.0	0.14	1		01/15/16 12:25	67-66-3	
Chloromethane	**0.34J**	ug/L	1.0	0.080	1		01/15/16 12:25	74-87-3	B
Dibromochloromethane	**0.33J**	ug/L	1.0	0.21	1		01/15/16 12:25	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 12:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 12:25	107-06-2	
1,1-Dichloroethene	**2.3**	ug/L	1.0	0.20	1		01/15/16 12:25	75-35-4	
cis-1,2-Dichloroethene	**67.0**	ug/L	1.0	0.080	1		01/15/16 12:25	156-59-2	
trans-1,2-Dichloroethene	**1.0**	ug/L	1.0	0.20	1		01/15/16 12:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 12:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 12:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 12:25	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 12:25	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 12:25	591-78-6	
Methylene chloride	**0.40J**	ug/L	1.0	0.15	1		01/15/16 12:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 12:25	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 12:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 12:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 12:25	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 12:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 12:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 12:25	79-00-5	
Trichloroethene	**797**	ug/L	20.0	3.4	20		01/19/16 14:36	79-01-6	
Vinyl chloride	**4.9**	ug/L	1.0	0.13	1		01/15/16 12:25	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 12:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/15/16 12:25	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/15/16 12:25	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 12:25	2037-26-5	
Preservation pH	**7.0**		0.10	0.10	1		01/15/16 12:25		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-15-201601 **Lab ID: 60211236012** Collected: 01/13/16 09:30 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 11:07		
Alkalinity, Carbonate (CaCO3)	**66.5**	mg/L	20.0	2.0	1		01/25/16 11:07		
Alkalinity, Total as CaCO3	**181**	mg/L	20.0	2.0	1		01/25/16 11:07		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**11.6**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**25.6**	mg/L	2.0	1.0	2		01/19/16 10:56	16887-00-6	
Sulfate	**42.8**	mg/L	5.0	1.2	5		01/19/16 11:13	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.23**	mg/L	0.10	0.046	1		01/20/16 08:34	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.35**	mg/L	0.10	0.014	1		01/14/16 18:44		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:44		
Nitrogen, NO2 plus NO3	**0.35**	mg/L	0.10	0.014	1		01/14/16 18:44		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**29.3**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.87J**	mg/L	1.0	0.50	1		01/26/16 20:33	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.043**	mg/L	0.030	0.010	1	01/22/16 10:27	01/22/16 16:10		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-21-201601 **Lab ID: 60211236013** Collected: 01/13/16 09:06 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 20:37	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	ND	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:41	7439-89-6	
Manganese	**525**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:41	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 17:31	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 17:31	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 17:31	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 17:31	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 17:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 17:31	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 17:31	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 17:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 17:31	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 17:31	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 17:31	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/15/16 17:31	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 17:31	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 17:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 17:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 17:31	75-35-4	
cis-1,2-Dichloroethene	**0.27J**	ug/L	1.0	0.080	1		01/15/16 17:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 17:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 17:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 17:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 17:31	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 17:31	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 17:31	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 17:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 17:31	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 17:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 17:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 17:31	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 17:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 17:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 17:31	79-00-5	
Trichloroethene	**9.8**	ug/L	1.0	0.17	1		01/15/16 17:31	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 17:31	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 17:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/15/16 17:31	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/15/16 17:31	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 17:31	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 17:31		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-21-201601 **Lab ID: 60211236013** Collected: 01/13/16 09:06 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 11:12		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 11:12		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/25/16 11:12		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.6**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**651**	mg/L	50.0	25.0	50		01/18/16 19:22	16887-00-6	
Sulfate	**4.0**	mg/L	1.0	0.24	1		01/18/16 19:05	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 08:35	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.10**	mg/L	0.10	0.014	1		01/14/16 18:45		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:45		
Nitrogen, NO2 plus NO3	**0.10**	mg/L	0.10	0.014	1		01/14/16 18:45		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/26/16 20:46	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.055**	mg/L	0.030	0.010	1	01/22/16 10:27	01/22/16 16:10		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-7-201601 **Lab ID: 60211236014** Collected: 01/13/16 11:42 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 20:48	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	ND	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:43	7439-89-6	
Manganese	**72.0**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:43	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 17:46	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 17:46	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 17:46	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 17:46	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 17:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 17:46	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 17:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 17:46	56-23-5	
Chlorobenzene	**1.2**	ug/L	1.0	0.21	1		01/15/16 17:46	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 17:46	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 17:46	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/15/16 17:46	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 17:46	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 17:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 17:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 17:46	75-35-4	
cis-1,2-Dichloroethene	**13.0**	ug/L	1.0	0.080	1		01/15/16 17:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 17:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 17:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 17:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 17:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 17:46	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 17:46	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 17:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 17:46	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 17:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 17:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 17:46	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 17:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 17:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 17:46	79-00-5	
Trichloroethene	**44.2**	ug/L	1.0	0.17	1		01/15/16 17:46	79-01-6	
Vinyl chloride	**0.23J**	ug/L	1.0	0.13	1		01/15/16 17:46	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 17:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/15/16 17:46	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/15/16 17:46	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/15/16 17:46	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 17:46		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-7-201601 **Lab ID: 60211236014** Collected: 01/13/16 11:42 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 11:27		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 11:27		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/25/16 11:27		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.3**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**240**	mg/L	20.0	10.0	20		01/18/16 19:39	16887-00-6	
Sulfate	**9.0**	mg/L	1.0	0.24	1		01/18/16 20:31	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.25**	mg/L	0.10	0.046	1		01/20/16 08:39	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.3**	mg/L	0.10	0.014	1		01/14/16 18:47		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:47		
Nitrogen, NO2 plus NO3	**2.3**	mg/L	0.10	0.014	1		01/14/16 18:47		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/26/16 20:59	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.091**	mg/L	0.030	0.010	1	01/22/16 10:27	01/22/16 16:10		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-182-201601 **Lab ID: 60211236015** Collected: 01/13/16 14:20 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 20:59	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**17.2J**	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:50	7439-89-6	
Manganese	**394**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:50	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 18:30	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 18:30	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 18:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 18:30	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 18:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 18:30	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 18:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 18:30	56-23-5	
Chlorobenzene	**0.32J**	ug/L	1.0	0.21	1		01/15/16 18:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 18:30	75-00-3	
Chloroform	**0.20J**	ug/L	1.0	0.14	1		01/15/16 18:30	67-66-3	
Chloromethane	**0.096J**	ug/L	1.0	0.080	1		01/15/16 18:30	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 18:30	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 18:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 18:30	107-06-2	
1,1-Dichloroethene	**0.25J**	ug/L	1.0	0.20	1		01/15/16 18:30	75-35-4	
cis-1,2-Dichloroethene	**19.9**	ug/L	1.0	0.080	1		01/15/16 18:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 18:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 18:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 18:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 18:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 18:30	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 18:30	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 18:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 18:30	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 18:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 18:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 18:30	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 18:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 18:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 18:30	79-00-5	
Trichloroethene	**258**	ug/L	5.0	0.85	5		01/19/16 16:03	79-01-6	
Vinyl chloride	**0.30J**	ug/L	1.0	0.13	1		01/15/16 18:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 18:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/15/16 18:30	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/15/16 18:30	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/15/16 18:30	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 18:30		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-182-201601 **Lab ID: 60211236015** Collected: 01/13/16 14:20 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**46.0**	mg/L	20.0	2.0	1		01/25/16 11:32		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 11:32		
Alkalinity, Total as CaCO3	**46.0**	mg/L	20.0	2.0	1		01/25/16 11:32		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.0**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**224**	mg/L	20.0	10.0	20		01/18/16 21:05	16887-00-6	
Sulfate	**20.5**	mg/L	2.0	0.47	2		01/18/16 20:48	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 08:40	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**10.0**	mg/L	0.50	0.070	5		01/14/16 19:11		
Nitrogen, Nitrite	ND	mg/L	0.50	0.12	5		01/14/16 19:11		
Nitrogen, NO2 plus NO3	**10.0**	mg/L	0.50	0.070	5		01/14/16 19:11		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**123**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/26/16 21:12	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.095**	mg/L	0.030	0.010	1	01/22/16 10:27	01/22/16 16:10		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-10-201601 **Lab ID: 60211236016** Collected: 01/13/16 16:26 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 21:10	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	ND	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:52	7439-89-6	
Manganese	**385**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:52	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 18:44	67-64-1	
Benzene	**0.20J**	ug/L	1.0	0.060	1		01/15/16 18:44	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 18:44	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 18:44	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 18:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 18:44	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 18:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 18:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 18:44	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 18:44	75-00-3	
Chloroform	**0.37J**	ug/L	1.0	0.14	1		01/15/16 18:44	67-66-3	
Chloromethane	**0.12J**	ug/L	1.0	0.080	1		01/15/16 18:44	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 18:44	124-48-1	
1,1-Dichloroethane	**3.1**	ug/L	1.0	0.050	1		01/15/16 18:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 18:44	107-06-2	
1,1-Dichloroethene	**5.6**	ug/L	1.0	0.20	1		01/15/16 18:44	75-35-4	
cis-1,2-Dichloroethene	**44.4**	ug/L	1.0	0.080	1		01/15/16 18:44	156-59-2	
trans-1,2-Dichloroethene	**0.40J**	ug/L	1.0	0.20	1		01/15/16 18:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 18:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 18:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 18:44	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 18:44	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 18:44	591-78-6	
Methylene chloride	**0.30J**	ug/L	1.0	0.15	1		01/15/16 18:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 18:44	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 18:44	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 18:44	79-34-5	
Tetrachloroethene	**1.1**	ug/L	1.0	0.10	1		01/15/16 18:44	127-18-4	
Toluene	**0.21J**	ug/L	1.0	0.17	1		01/15/16 18:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 18:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 18:44	79-00-5	
Trichloroethene	**761**	ug/L	20.0	3.4	20		01/19/16 16:17	79-01-6	
Vinyl chloride	**1.6**	ug/L	1.0	0.13	1		01/15/16 18:44	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 18:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/15/16 18:44	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/15/16 18:44	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/15/16 18:44	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 18:44		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-10-201601 **Lab ID: 60211236016** Collected: 01/13/16 16:26 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**78.8**	mg/L	20.0	2.0	1		01/25/16 11:36		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 11:36		
Alkalinity, Total as CaCO3	**78.8**	mg/L	20.0	2.0	1		01/25/16 11:36		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.4**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**116**	mg/L	10.0	5.0	10		01/18/16 21:39	16887-00-6	
Sulfate	**33.1**	mg/L	2.0	0.47	2		01/18/16 21:22	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 08:41	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**4.7**	mg/L	0.10	0.014	1		01/14/16 18:49		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:49		
Nitrogen, NO2 plus NO3	**4.7**	mg/L	0.10	0.014	1		01/14/16 18:49		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**125**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.81J**	mg/L	1.0	0.50	1		01/26/16 21:25	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.11**	mg/L	0.030	0.010	1	01/22/16 10:27	01/22/16 16:10		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-18-201601 **Lab ID: 60211236017** Collected: 01/13/16 09:25 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 21:21	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	ND	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:54	7439-89-6	
Manganese	ND	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:54	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**17.2**	ug/L	10.0	1.9	1		01/20/16 09:38	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 12:40	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 12:40	75-27-4	
Bromoform	**0.75J**	ug/L	1.0	0.070	1		01/15/16 12:40	75-25-2	
Bromomethane	**14.4**	ug/L	5.0	0.16	1		01/15/16 12:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 12:40	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 12:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 12:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 12:40	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 12:40	75-00-3	
Chloroform	**0.28J**	ug/L	1.0	0.14	1		01/15/16 12:40	67-66-3	
Chloromethane	**7.0**	ug/L	1.0	0.080	1		01/15/16 12:40	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 12:40	124-48-1	
1,1-Dichloroethane	**0.19J**	ug/L	1.0	0.050	1		01/15/16 12:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 12:40	107-06-2	
1,1-Dichloroethene	**0.22J**	ug/L	1.0	0.20	1		01/15/16 12:40	75-35-4	
cis-1,2-Dichloroethene	**4.6**	ug/L	1.0	0.080	1		01/15/16 12:40	156-59-2	
trans-1,2-Dichloroethene	**0.52J**	ug/L	1.0	0.20	1		01/15/16 12:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 12:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 12:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 12:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 12:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 12:40	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 12:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 12:40	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 12:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 12:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 12:40	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 12:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 12:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 12:40	79-00-5	
Trichloroethene	**48.8**	ug/L	1.0	0.17	1		01/15/16 12:40	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 12:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 12:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/15/16 12:40	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/15/16 12:40	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		01/15/16 12:40	2037-26-5	
Preservation pH	**2.0**		0.10	0.10	1		01/15/16 12:40		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-18-201601 **Lab ID: 60211236017** Collected: 01/13/16 09:25 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**62.4**	mg/L	20.0	2.0	1		01/25/16 11:40		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 11:40		
Alkalinity, Total as CaCO3	**62.4**	mg/L	20.0	2.0	1		01/25/16 11:40		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.0**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**94.0**	mg/L	10.0	5.0	10		01/18/16 21:57	16887-00-6	
Sulfate	**1860**	mg/L	200	47.3	200		01/18/16 22:14	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.19**	mg/L	0.10	0.046	1		01/20/16 08:42	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.3**	mg/L	0.10	0.014	1		01/14/16 18:50		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:50		
Nitrogen, NO2 plus NO3	**2.3**	mg/L	0.10	0.014	1		01/14/16 18:50		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**174**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/26/16 21:38	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.10**	mg/L	0.030	0.010	1	01/23/16 08:48	01/23/16 13:55		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-19-201601 **Lab ID: 60211236018** Collected: 01/13/16 14:50 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 21:32	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	ND	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:56	7439-89-6	
Manganese	**3.0J**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:56	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**39.2**	ug/L	10.0	1.9	1		01/19/16 14:07	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 12:54	71-43-2	
Bromodichloromethane	**0.25J**	ug/L	1.0	0.19	1		01/15/16 12:54	75-27-4	
Bromoform	**3.5**	ug/L	1.0	0.070	1		01/15/16 12:54	75-25-2	
Bromomethane	**2.8J**	ug/L	5.0	0.16	1		01/15/16 12:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 12:54	78-93-3	
Carbon disulfide	**0.90J**	ug/L	5.0	0.12	1		01/15/16 12:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 12:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 12:54	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 12:54	75-00-3	
Chloroform	**1.7**	ug/L	1.0	0.14	1		01/15/16 12:54	67-66-3	
Chloromethane	**3.0**	ug/L	1.0	0.080	1		01/15/16 12:54	74-87-3	B
Dibromochloromethane	**0.28J**	ug/L	1.0	0.21	1		01/15/16 12:54	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 12:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 12:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 12:54	75-35-4	
cis-1,2-Dichloroethene	**1.2**	ug/L	1.0	0.080	1		01/15/16 12:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 12:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 12:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 12:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 12:54	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 12:54	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 12:54	591-78-6	
Methylene chloride	**1.2**	ug/L	1.0	0.15	1		01/15/16 12:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 12:54	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 12:54	100-42-5	
1,1,2,2-Tetrachloroethane	**0.31J**	ug/L	1.0	0.15	1		01/15/16 12:54	79-34-5	
Tetrachloroethene	**0.46J**	ug/L	1.0	0.10	1		01/15/16 12:54	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 12:54	108-88-3	
1,1,1-Trichloroethane	**0.13J**	ug/L	1.0	0.11	1		01/15/16 12:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 12:54	79-00-5	
Trichloroethene	**336**	ug/L	5.0	0.85	5		01/19/16 14:21	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 12:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 12:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/15/16 12:54	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/15/16 12:54	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 12:54	2037-26-5	
Preservation pH	**4.0**		0.10	0.10	1		01/15/16 12:54		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-19-201601 **Lab ID: 60211236018** Collected: 01/13/16 14:50 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**276**	mg/L	20.0	2.0	1		01/25/16 12:53		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 12:53		
Alkalinity, Total as CaCO3	**276**	mg/L	20.0	2.0	1		01/25/16 12:53		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**7.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:48	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**283**	mg/L	20.0	10.0	20		01/18/16 22:31	16887-00-6	
Sulfate	**2590**	mg/L	200	47.3	200		01/18/16 22:48	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.24**	mg/L	0.10	0.046	1		01/20/16 08:43	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**3.1**	mg/L	0.10	0.014	1		01/14/16 18:51		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:51		
Nitrogen, NO2 plus NO3	**3.1**	mg/L	0.10	0.014	1		01/14/16 18:51		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**290**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/26/16 21:51	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.73**	mg/L	0.030	0.010	1	01/23/16 08:48	01/23/16 13:56		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-9-201601 **Lab ID: 60211236019** Collected: 01/13/16 11:45 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 21:44	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	ND	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 17:59	7439-89-6	
Manganese	**343**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 17:59	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 18:01	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 18:01	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 18:01	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 18:01	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 18:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 18:01	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 18:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 18:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 18:01	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 18:01	75-00-3	
Chloroform	**0.23J**	ug/L	1.0	0.14	1		01/15/16 18:01	67-66-3	
Chloromethane	**1.3**	ug/L	1.0	0.080	1		01/15/16 18:01	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 18:01	124-48-1	
1,1-Dichloroethane	**0.23J**	ug/L	1.0	0.050	1		01/15/16 18:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 18:01	107-06-2	
1,1-Dichloroethene	**1.2**	ug/L	1.0	0.20	1		01/15/16 18:01	75-35-4	
cis-1,2-Dichloroethene	**35.3**	ug/L	1.0	0.080	1		01/15/16 18:01	156-59-2	
trans-1,2-Dichloroethene	**0.35J**	ug/L	1.0	0.20	1		01/15/16 18:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 18:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 18:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 18:01	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 18:01	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 18:01	591-78-6	
Methylene chloride	**0.75J**	ug/L	1.0	0.15	1		01/15/16 18:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 18:01	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 18:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 18:01	79-34-5	
Tetrachloroethene	**0.19J**	ug/L	1.0	0.10	1		01/15/16 18:01	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 18:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 18:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 18:01	79-00-5	
Trichloroethene	**92.4**	ug/L	1.0	0.17	1		01/15/16 18:01	79-01-6	
Vinyl chloride	**1.1**	ug/L	1.0	0.13	1		01/15/16 18:01	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 18:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		01/15/16 18:01	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	80-120		1		01/15/16 18:01	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 18:01	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 18:01		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-9-201601 **Lab ID: 60211236019** Collected: 01/13/16 11:45 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**103**	mg/L	20.0	2.0	1		01/25/16 12:58		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 12:58		
Alkalinity, Total as CaCO3	**103**	mg/L	20.0	2.0	1		01/25/16 12:58		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:48	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**49.3**	mg/L	5.0	2.5	5		01/18/16 23:05	16887-00-6	
Sulfate	**32.4**	mg/L	5.0	1.2	5		01/18/16 23:05	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 08:44	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**6.3**	mg/L	0.20	0.028	2		01/14/16 19:12		
Nitrogen, Nitrite	ND	mg/L	0.20	0.046	2		01/14/16 19:12		
Nitrogen, NO2 plus NO3	**6.3**	mg/L	0.20	0.028	2		01/14/16 19:12		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**253**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.9**	mg/L	1.0	0.50	1		01/26/16 22:04	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.16**	mg/L	0.030	0.010	1	01/23/16 08:48	01/23/16 13:57		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-91-201601 **Lab ID: 60211236020** Collected: 01/13/16 16:30 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 21:55	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**95.6**	ug/L	50.0	9.0	1	01/15/16 09:00	01/21/16 18:01	7439-89-6	
Manganese	**266**	ug/L	5.0	2.4	1	01/15/16 09:00	01/21/16 18:01	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 18:59	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 18:59	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 18:59	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 18:59	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 18:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 18:59	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 18:59	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 18:59	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 18:59	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 18:59	75-00-3	
Chloroform	**0.22J**	ug/L	1.0	0.14	1		01/15/16 18:59	67-66-3	
Chloromethane	**0.20J**	ug/L	1.0	0.080	1		01/15/16 18:59	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 18:59	124-48-1	
1,1-Dichloroethane	**1.5**	ug/L	1.0	0.050	1		01/15/16 18:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 18:59	107-06-2	
1,1-Dichloroethene	**4.1**	ug/L	1.0	0.20	1		01/15/16 18:59	75-35-4	
cis-1,2-Dichloroethene	**36.1**	ug/L	1.0	0.080	1		01/15/16 18:59	156-59-2	
trans-1,2-Dichloroethene	**0.40J**	ug/L	1.0	0.20	1		01/15/16 18:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 18:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 18:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 18:59	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 18:59	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 18:59	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 18:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 18:59	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 18:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 18:59	79-34-5	
Tetrachloroethene	**1.6**	ug/L	1.0	0.10	1		01/15/16 18:59	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 18:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 18:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 18:59	79-00-5	
Trichloroethene	**413**	ug/L	10.0	1.7	10		01/19/16 16:32	79-01-6	
Vinyl chloride	**0.24J**	ug/L	1.0	0.13	1		01/15/16 18:59	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 18:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/15/16 18:59	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/15/16 18:59	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 18:59	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 18:59		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-91-201601 **Lab ID: 60211236020** Collected: 01/13/16 16:30 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**60.6**	mg/L	20.0	2.0	1		01/25/16 13:02		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 13:02		
Alkalinity, Total as CaCO3	**60.6**	mg/L	20.0	2.0	1		01/25/16 13:02		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:48	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**43.3**	mg/L	5.0	2.5	5		01/19/16 00:14	16887-00-6	
Sulfate	**11.3**	mg/L	1.0	0.24	1		01/18/16 23:57	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 08:45	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.9**	mg/L	0.10	0.014	1		01/14/16 18:54		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:54		
Nitrogen, NO2 plus NO3	**2.9**	mg/L	0.10	0.014	1		01/14/16 18:54		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**145**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/26/16 23:09	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.062**	mg/L	0.030	0.010	1	01/23/16 08:48	01/23/16 13:57		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-85-201601 **Lab ID: 60211236021** Collected: 01/13/16 11:20 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 18:23	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**30.7J**	ug/L	50.0	9.0	1	01/15/16 09:00	01/22/16 13:14	7439-89-6	
Manganese	**13.0**	ug/L	5.0	2.4	1	01/15/16 09:00	01/22/16 13:14	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**94.2**	ug/L	10.0	1.9	1		01/20/16 17:09	67-64-1	
Benzene	**0.20J**	ug/L	1.0	0.060	1		01/20/16 17:09	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/20/16 17:09	75-27-4	
Bromoform	**10.8**	ug/L	1.0	0.070	1		01/20/16 17:09	75-25-2	
Bromomethane	**13.4**	ug/L	5.0	0.16	1		01/20/16 17:09	74-83-9	
2-Butanone (MEK)	**5.8J**	ug/L	10.0	0.59	1		01/20/16 17:09	78-93-3	
Carbon disulfide	**0.50J**	ug/L	5.0	0.12	1		01/20/16 17:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/20/16 17:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/20/16 17:09	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/20/16 17:09	75-00-3	
Chloroform	**11.2**	ug/L	1.0	0.14	1		01/20/16 17:09	67-66-3	
Chloromethane	**20.9**	ug/L	1.0	0.080	1		01/20/16 17:09	74-87-3	
Dibromochloromethane	**0.59J**	ug/L	1.0	0.21	1		01/20/16 17:09	124-48-1	
1,1-Dichloroethane	**0.88J**	ug/L	1.0	0.050	1		01/20/16 17:09	75-34-3	
1,2-Dichloroethane	**0.22J**	ug/L	1.0	0.12	1		01/20/16 17:09	107-06-2	
1,1-Dichloroethene	**1.0J**	ug/L	1.0	0.20	1		01/20/16 17:09	75-35-4	
cis-1,2-Dichloroethene	**32.8**	ug/L	1.0	0.080	1		01/20/16 17:09	156-59-2	
trans-1,2-Dichloroethene	**5.9**	ug/L	1.0	0.20	1		01/20/16 17:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/20/16 17:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/20/16 17:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/20/16 17:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/20/16 17:09	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/20/16 17:09	591-78-6	
Methylene chloride	**12.0**	ug/L	1.0	0.15	1		01/20/16 17:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/20/16 17:09	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/20/16 17:09	100-42-5	
1,1,2,2-Tetrachloroethane	**25.0**	ug/L	1.0	0.15	1		01/20/16 17:09	79-34-5	
Tetrachloroethene	**5.9**	ug/L	1.0	0.10	1		01/20/16 17:09	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/20/16 17:09	108-88-3	
1,1,1-Trichloroethane	**63.3**	ug/L	1.0	0.11	1		01/20/16 17:09	71-55-6	
1,1,2-Trichloroethane	**1.4**	ug/L	1.0	0.20	1		01/20/16 17:09	79-00-5	
Trichloroethene	**6980**	ug/L	200	34.0	200		01/15/16 13:53	79-01-6	
Vinyl chloride	**0.70J**	ug/L	1.0	0.13	1		01/20/16 17:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/20/16 17:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	77-130		1		01/20/16 17:09	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	81-127		1		01/20/16 17:09	17060-07-0	
Toluene-d8 (S)	104	%	80-120		1		01/20/16 17:09	2037-26-5	
Preservation pH	**3.0**		0.10	0.10	1		01/20/16 17:09		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-85-201601 **Lab ID: 60211236021** Collected: 01/13/16 11:20 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**59.6**	mg/L	20.0	2.0	1		01/25/16 13:06		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 13:06		
Alkalinity, Total as CaCO3	**59.6**	mg/L	20.0	2.0	1		01/25/16 13:06		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.5**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:48	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**389**	mg/L	25.0	12.5	25		01/19/16 00:31	16887-00-6	
Sulfate	**1580**	mg/L	200	47.3	200		01/19/16 01:23	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.074J**	mg/L	0.10	0.046	1		01/20/16 08:49	7664-41-7	M1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.62**	mg/L	0.10	0.014	1		01/14/16 18:55		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:55		
Nitrogen, NO2 plus NO3	**0.62**	mg/L	0.10	0.014	1		01/14/16 18:55		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**466**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**1.1**	mg/L	1.0	0.50	1		01/26/16 23:35	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.32**	mg/L	0.030	0.010	1	01/23/16 08:48	01/23/16 13:57		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-25-201601 **Lab ID: 60211236022** Collected: 01/13/16 13:50 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 22:06	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**243**	ug/L	50.0	9.0	1	01/15/16 09:00	01/22/16 13:17	7439-89-6	
Manganese	**338**	ug/L	5.0	2.4	1	01/15/16 09:00	01/22/16 13:17	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**134**	ug/L	10.0	1.9	1		01/20/16 17:24	67-64-1	
Benzene	**0.40J**	ug/L	1.0	0.060	1		01/20/16 17:24	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/20/16 17:24	75-27-4	
Bromoform	**0.44J**	ug/L	1.0	0.070	1		01/20/16 17:24	75-25-2	
Bromomethane	**7.2**	ug/L	5.0	0.16	1		01/20/16 17:24	74-83-9	
2-Butanone (MEK)	**13.5**	ug/L	10.0	0.59	1		01/20/16 17:24	78-93-3	
Carbon disulfide	**1.2J**	ug/L	5.0	0.12	1		01/20/16 17:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/20/16 17:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/20/16 17:24	108-90-7	
Chloroethane	**1.1**	ug/L	1.0	0.15	1		01/20/16 17:24	75-00-3	
Chloroform	**20.7**	ug/L	1.0	0.14	1		01/20/16 17:24	67-66-3	
Chloromethane	**23.2**	ug/L	1.0	0.080	1		01/20/16 17:24	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/20/16 17:24	124-48-1	
1,1-Dichloroethane	**4.5**	ug/L	1.0	0.050	1		01/20/16 17:24	75-34-3	
1,2-Dichloroethane	**0.85J**	ug/L	1.0	0.12	1		01/20/16 17:24	107-06-2	
1,1-Dichloroethene	**5.7**	ug/L	1.0	0.20	1		01/20/16 17:24	75-35-4	
cis-1,2-Dichloroethene	**608J**	ug/L	1000	80.0	1000		01/15/16 14:07	156-59-2	
trans-1,2-Dichloroethene	**98.5**	ug/L	1.0	0.20	1		01/20/16 17:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/20/16 17:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/20/16 17:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/20/16 17:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/20/16 17:24	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/20/16 17:24	591-78-6	
Methylene chloride	**12.9**	ug/L	1.0	0.15	1		01/20/16 17:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.96J**	ug/L	10.0	0.42	1		01/20/16 17:24	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/20/16 17:24	100-42-5	
1,1,2,2-Tetrachloroethane	**135**	ug/L	1.0	0.15	1		01/20/16 17:24	79-34-5	
Tetrachloroethene	**18.8**	ug/L	1.0	0.10	1		01/20/16 17:24	127-18-4	
Toluene	**1.4**	ug/L	1.0	0.17	1		01/20/16 17:24	108-88-3	
1,1,1-Trichloroethane	**22.9**	ug/L	1.0	0.11	1		01/20/16 17:24	71-55-6	
1,1,2-Trichloroethane	**2.0**	ug/L	1.0	0.20	1		01/20/16 17:24	79-00-5	
Trichloroethene	**43400**	ug/L	1000	170	1000		01/15/16 14:07	79-01-6	
Vinyl chloride	**55.0**	ug/L	1.0	0.13	1		01/20/16 17:24	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/20/16 17:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	77-130		1		01/20/16 17:24	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	81-127		1		01/20/16 17:24	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/20/16 17:24	2037-26-5	
Preservation pH	**3.0**		0.10	0.10	1		01/20/16 17:24		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-25-201601 **Lab ID: 60211236022** Collected: 01/13/16 13:50 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**148**	mg/L	20.0	2.0	1		01/25/16 13:12		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 13:12		
Alkalinity, Total as CaCO3	**148**	mg/L	20.0	2.0	1		01/25/16 13:12		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.23**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.8**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:48	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**426**	mg/L	50.0	25.0	50		01/19/16 02:15	16887-00-6	
Sulfate	**1710**	mg/L	100	23.7	100		01/19/16 02:32	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.19**	mg/L	0.10	0.046	1		01/20/16 08:53	7664-41-7	M1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.33**	mg/L	0.10	0.014	1		01/14/16 18:58		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:58		
Nitrogen, NO2 plus NO3	**0.33**	mg/L	0.10	0.014	1		01/14/16 18:58		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**566**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**5.3**	mg/L	1.0	0.50	1		01/27/16 00:01	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.52**	mg/L	0.030	0.010	1	01/23/16 08:48	01/23/16 13:57		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-86-201601 **Lab ID: 60211236023** Collected: 01/13/16 15:45 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 22:17	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**888**	ug/L	50.0	9.0	1	01/15/16 09:00	01/22/16 13:19	7439-89-6	
Manganese	**1150**	ug/L	5.0	2.4	1	01/15/16 09:00	01/22/16 13:19	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**215**	ug/L	10.0	1.9	1		01/20/16 17:38	67-64-1	
Benzene	**0.68J**	ug/L	1.0	0.060	1		01/20/16 17:38	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/20/16 17:38	75-27-4	
Bromoform	**0.62J**	ug/L	1.0	0.070	1		01/20/16 17:38	75-25-2	
Bromomethane	**1.1J**	ug/L	5.0	0.16	1		01/20/16 17:38	74-83-9	B
2-Butanone (MEK)	**35.8**	ug/L	10.0	0.59	1		01/20/16 17:38	78-93-3	
Carbon disulfide	**8.7**	ug/L	5.0	0.12	1		01/20/16 17:38	75-15-0	
Carbon tetrachloride	**3.6**	ug/L	1.0	0.18	1		01/20/16 17:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/20/16 17:38	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/20/16 17:38	75-00-3	
Chloroform	**52.7**	ug/L	1.0	0.14	1		01/20/16 17:38	67-66-3	
Chloromethane	**6.1**	ug/L	1.0	0.080	1		01/20/16 17:38	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/20/16 17:38	124-48-1	
1,1-Dichloroethane	**6.0**	ug/L	1.0	0.050	1		01/20/16 17:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/20/16 17:38	107-06-2	
1,1-Dichloroethene	**23.3**	ug/L	1.0	0.20	1		01/20/16 17:38	75-35-4	
cis-1,2-Dichloroethene	**610J**	ug/L	1000	80.0	1000		01/15/16 14:22	156-59-2	
trans-1,2-Dichloroethene	**69.5**	ug/L	1.0	0.20	1		01/20/16 17:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/20/16 17:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/20/16 17:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/20/16 17:38	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/20/16 17:38	100-41-4	
2-Hexanone	**5.3J**	ug/L	10.0	1.2	1		01/20/16 17:38	591-78-6	
Methylene chloride	**16.4**	ug/L	1.0	0.15	1		01/20/16 17:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.6J**	ug/L	10.0	0.42	1		01/20/16 17:38	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/20/16 17:38	100-42-5	
1,1,2,2-Tetrachloroethane	**293J**	ug/L	1000	150	1000		01/15/16 14:22	79-34-5	
Tetrachloroethene	**40.3**	ug/L	1.0	0.10	1		01/20/16 17:38	127-18-4	
Toluene	**3.7**	ug/L	1.0	0.17	1		01/20/16 17:38	108-88-3	
1,1,1-Trichloroethane	**586J**	ug/L	1000	110	1000		01/15/16 14:22	71-55-6	
1,1,2-Trichloroethane	**7.4**	ug/L	1.0	0.20	1		01/20/16 17:38	79-00-5	
Trichloroethene	**95500**	ug/L	1000	170	1000		01/15/16 14:22	79-01-6	
Vinyl chloride	**57.1**	ug/L	1.0	0.13	1		01/20/16 17:38	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/20/16 17:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	112	%	77-130		1		01/20/16 17:38	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	81-127		1		01/20/16 17:38	17060-07-0	
Toluene-d8 (S)	104	%	80-120		1		01/20/16 17:38	2037-26-5	
Preservation pH	**6.0**		0.10	0.10	1		01/20/16 17:38		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-86-201601 **Lab ID: 60211236023** Collected: 01/13/16 15:45 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**278**	mg/L	20.0	2.0	1		01/25/16 13:18		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 13:18		
Alkalinity, Total as CaCO3	**278**	mg/L	20.0	2.0	1		01/25/16 13:18		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.89**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.0**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:48	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**473**	mg/L	50.0	25.0	50		01/19/16 03:23	16887-00-6	
Sulfate	**3070**	mg/L	200	47.3	200		01/19/16 03:41	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**1.1**	mg/L	0.10	0.046	1		01/20/16 08:56	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.0**	mg/L	0.10	0.014	1		01/14/16 18:58		
Nitrogen, Nitrite	**0.11**	mg/L	0.10	0.023	1		01/14/16 18:58		
Nitrogen, NO2 plus NO3	**2.1**	mg/L	0.10	0.014	1		01/14/16 18:58		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**827**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**7.2**	mg/L	1.0	0.50	1		01/27/16 00:14	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.14**	mg/L	0.030	0.010	1	01/23/16 08:48	01/23/16 13:58		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-17-201601 **Lab ID: 60211236024** Collected: 01/13/16 13:15 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 22:28	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**43.4J**	ug/L	50.0	9.0	1	01/15/16 09:00	01/22/16 13:21	7439-89-6	
Manganese	**80.9**	ug/L	5.0	2.4	1	01/15/16 09:00	01/22/16 13:21	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/20/16 16:11	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/20/16 16:11	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/20/16 16:11	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/20/16 16:11	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/20/16 16:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/20/16 16:11	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/20/16 16:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/20/16 16:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/20/16 16:11	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/20/16 16:11	75-00-3	
Chloroform	**0.64J**	ug/L	1.0	0.14	1		01/20/16 16:11	67-66-3	
Chloromethane	**0.38J**	ug/L	1.0	0.080	1		01/20/16 16:11	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/20/16 16:11	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/20/16 16:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/20/16 16:11	107-06-2	
1,1-Dichloroethene	**2.3**	ug/L	1.0	0.20	1		01/20/16 16:11	75-35-4	
cis-1,2-Dichloroethene	**44.7**	ug/L	1.0	0.080	1		01/20/16 16:11	156-59-2	
trans-1,2-Dichloroethene	**3.0**	ug/L	1.0	0.20	1		01/20/16 16:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/20/16 16:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/20/16 16:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/20/16 16:11	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/20/16 16:11	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/20/16 16:11	591-78-6	
Methylene chloride	**0.62J**	ug/L	1.0	0.15	1		01/20/16 16:11	75-09-2	B
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/20/16 16:11	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/20/16 16:11	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/20/16 16:11	79-34-5	
Tetrachloroethene	**0.58J**	ug/L	1.0	0.10	1		01/20/16 16:11	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/20/16 16:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/20/16 16:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/20/16 16:11	79-00-5	
Trichloroethene	**2600**	ug/L	50.0	8.5	50		01/15/16 20:26	79-01-6	
Vinyl chloride	**2.2**	ug/L	1.0	0.13	1		01/20/16 16:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/20/16 16:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	77-130		1		01/20/16 16:11	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	81-127		1		01/20/16 16:11	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		01/20/16 16:11	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/20/16 16:11		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-17-201601 **Lab ID: 60211236024** Collected: 01/13/16 13:15 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 13:38		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 13:38		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/25/16 13:38		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.4**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:49	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**223**	mg/L	20.0	10.0	20		01/19/16 11:48	16887-00-6	
Sulfate	**24.6**	mg/L	2.0	0.47	2		01/19/16 11:31	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 08:58	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.18**	mg/L	0.10	0.014	1		01/14/16 18:59		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 18:59		
Nitrogen, NO2 plus NO3	**0.18**	mg/L	0.10	0.014	1		01/14/16 18:59		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**7.1**	mg/L	1.0	0.50	1		01/27/16 00:27	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.062**	mg/L	0.030	0.010	1	01/23/16 08:48	01/23/16 13:58		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-172-201601 **Lab ID: 60211236025** Collected: 01/13/16 15:00 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 22:39	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**75.6**	ug/L	50.0	9.0	1	01/15/16 09:00	01/22/16 13:23	7439-89-6	
Manganese	**9.1**	ug/L	5.0	2.4	1	01/15/16 09:00	01/22/16 13:23	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**5.6J**	ug/L	10.0	1.9	1		01/20/16 15:13	67-64-1	
Benzene	**0.13J**	ug/L	1.0	0.060	1		01/20/16 15:13	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/20/16 15:13	75-27-4	
Bromoform	**0.39J**	ug/L	1.0	0.070	1		01/20/16 15:13	75-25-2	
Bromomethane	**1.8J**	ug/L	5.0	0.16	1		01/20/16 15:13	74-83-9	B
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/20/16 15:13	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/20/16 15:13	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/20/16 15:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/20/16 15:13	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/20/16 15:13	75-00-3	
Chloroform	**2.0**	ug/L	1.0	0.14	1		01/20/16 15:13	67-66-3	
Chloromethane	**6.6**	ug/L	1.0	0.080	1		01/20/16 15:13	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/20/16 15:13	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/20/16 15:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/20/16 15:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/20/16 15:13	75-35-4	
cis-1,2-Dichloroethene	**13.5**	ug/L	1.0	0.080	1		01/20/16 15:13	156-59-2	
trans-1,2-Dichloroethene	**2.6**	ug/L	1.0	0.20	1		01/20/16 15:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/20/16 15:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/20/16 15:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/20/16 15:13	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/20/16 15:13	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/20/16 15:13	591-78-6	
Methylene chloride	**1.5**	ug/L	1.0	0.15	1		01/20/16 15:13	75-09-2	B
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/20/16 15:13	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/20/16 15:13	100-42-5	
1,1,2,2-Tetrachloroethane	**2.6**	ug/L	1.0	0.15	1		01/20/16 15:13	79-34-5	
Tetrachloroethene	**1.6**	ug/L	1.0	0.10	1		01/20/16 15:13	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/20/16 15:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/20/16 15:13	71-55-6	
1,1,2-Trichloroethane	**0.57J**	ug/L	1.0	0.20	1		01/20/16 15:13	79-00-5	
Trichloroethene	**3190**	ug/L	25.0	4.2	25		01/15/16 12:11	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/20/16 15:13	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/20/16 15:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	77-130		1		01/20/16 15:13	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	81-127		1		01/20/16 15:13	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/20/16 15:13	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/20/16 15:13		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-172-201601 **Lab ID: 60211236025** Collected: 01/13/16 15:00 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**45.7**	mg/L	20.0	2.0	1		01/25/16 13:43		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 13:43		
Alkalinity, Total as CaCO3	**45.7**	mg/L	20.0	2.0	1		01/25/16 13:43		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.2**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:49	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**247**	mg/L	25.0	12.5	25		01/19/16 04:15	16887-00-6	
Sulfate	**376**	mg/L	25.0	5.9	25		01/19/16 04:15	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 08:59	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.1**	mg/L	0.10	0.014	1		01/14/16 19:00		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 19:00		
Nitrogen, NO2 plus NO3	**1.1**	mg/L	0.10	0.014	1		01/14/16 19:00		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**555**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/27/16 00:40	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.15**	mg/L	0.030	0.010	1	01/23/16 08:48	01/23/16 13:58		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-16-201601 **Lab ID: 60211236026** Collected: 01/13/16 09:20 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 22:50	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**194**	ug/L	50.0	9.0	1	01/15/16 09:00	01/22/16 13:26	7439-89-6	
Manganese	**5.0**	ug/L	5.0	2.4	1	01/15/16 09:00	01/22/16 13:26	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/16/16 00:32	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/16/16 00:32	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 00:32	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 00:32	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/16/16 00:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/16/16 00:32	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/16/16 00:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 00:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 00:32	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/16/16 00:32	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/16/16 00:32	67-66-3	
Chloromethane	**0.16J**	ug/L	1.0	0.080	1		01/16/16 00:32	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 00:32	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/16/16 00:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 00:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 00:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/16/16 00:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 00:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 00:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 00:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 00:32	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 00:32	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/16/16 00:32	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/16/16 00:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/16/16 00:32	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 00:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 00:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/16/16 00:32	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/16/16 00:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 00:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 00:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/16/16 00:32	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/16/16 00:32	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 00:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/16/16 00:32	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/16/16 00:32	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		01/16/16 00:32	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 00:32		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: ITMW-16-201601 **Lab ID: 60211236026** Collected: 01/13/16 09:20 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**49.6**	mg/L	20.0	2.0	1		01/25/16 13:47		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 13:47		
Alkalinity, Total as CaCO3	**49.6**	mg/L	20.0	2.0	1		01/25/16 13:47		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.7**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:49	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.68J**	mg/L	1.0	0.50	1		01/19/16 04:32	16887-00-6	
Sulfate	**14.2**	mg/L	1.0	0.24	1		01/19/16 04:32	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 09:00	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.5**	mg/L	0.10	0.014	1		01/14/16 19:01		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 19:01		
Nitrogen, NO2 plus NO3	**1.5**	mg/L	0.10	0.014	1		01/14/16 19:01		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**62.5**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.0**	mg/L	1.0	0.50	1		01/27/16 01:20	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.13**	mg/L	0.030	0.010	1	01/23/16 08:48	01/23/16 13:58		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-29-201601 **Lab ID: 60211236027** Collected: 01/13/16 09:20 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/25/16 23:01	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**16.3J**	ug/L	50.0	9.0	1	01/15/16 09:00	01/22/16 13:28	7439-89-6	
Manganese	**237**	ug/L	5.0	2.4	1	01/15/16 09:00	01/22/16 13:28	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/16/16 00:47	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/16/16 00:47	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 00:47	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 00:47	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/16/16 00:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/16/16 00:47	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/16/16 00:47	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 00:47	56-23-5	
Chlorobenzene	**0.95J**	ug/L	1.0	0.21	1		01/16/16 00:47	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/16/16 00:47	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/16/16 00:47	67-66-3	
Chloromethane	**0.21J**	ug/L	1.0	0.080	1		01/16/16 00:47	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 00:47	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/16/16 00:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 00:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 00:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/16/16 00:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 00:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 00:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 00:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 00:47	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 00:47	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/16/16 00:47	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/16/16 00:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/16/16 00:47	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 00:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 00:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/16/16 00:47	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/16/16 00:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 00:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 00:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/16/16 00:47	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/16/16 00:47	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 00:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/16/16 00:47	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	80-120		1		01/16/16 00:47	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		01/16/16 00:47	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 00:47		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: MW-29-201601 **Lab ID: 60211236027** Collected: 01/13/16 09:20 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 13:51		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 13:51		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/25/16 13:51		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.0**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:49	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**98.0**	mg/L	10.0	5.0	10		01/19/16 12:05	16887-00-6	
Sulfate	**55.2**	mg/L	10.0	2.4	10		01/19/16 12:05	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/20/16 09:01	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.7**	mg/L	0.10	0.014	1		01/14/16 19:02		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/14/16 19:02		
Nitrogen, NO2 plus NO3	**1.7**	mg/L	0.10	0.014	1		01/14/16 19:02		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/27/16 01:33	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.088**	mg/L	0.030	0.010	1	01/23/16 08:48	01/23/16 13:58		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: DUP-09-201601 **Lab ID: 60211236028** Collected: 01/13/16 08:50 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/16/16 02:00	67-64-1	L3
Benzene	**0.13J**	ug/L	1.0	0.060	1		01/16/16 02:00	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 02:00	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 02:00	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/16/16 02:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/16/16 02:00	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/16/16 02:00	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 02:00	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 02:00	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/16/16 02:00	75-00-3	
Chloroform	**0.35J**	ug/L	1.0	0.14	1		01/16/16 02:00	67-66-3	
Chloromethane	**0.33J**	ug/L	1.0	0.080	1		01/16/16 02:00	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 02:00	124-48-1	
1,1-Dichloroethane	**2.8**	ug/L	1.0	0.050	1		01/16/16 02:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 02:00	107-06-2	
1,1-Dichloroethene	**8.3**	ug/L	1.0	0.20	1		01/16/16 02:00	75-35-4	
cis-1,2-Dichloroethene	**63.2**	ug/L	1.0	0.080	1		01/16/16 02:00	156-59-2	
trans-1,2-Dichloroethene	**1.1**	ug/L	1.0	0.20	1		01/16/16 02:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 02:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 02:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 02:00	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 02:00	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/16/16 02:00	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/16/16 02:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/16/16 02:00	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 02:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 02:00	79-34-5	
Tetrachloroethene	**4.4**	ug/L	1.0	0.10	1		01/16/16 02:00	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/16/16 02:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 02:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 02:00	79-00-5	
Trichloroethene	**781**	ug/L	20.0	3.4	20		01/19/16 16:47	79-01-6	
Vinyl chloride	**0.40J**	ug/L	1.0	0.13	1		01/16/16 02:00	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 02:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/16/16 02:00	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/16/16 02:00	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		01/16/16 02:00	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 02:00		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: DUP-02-201601 **Lab ID: 60211236029** Collected: 01/13/16 12:00 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/16/16 02:14	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/16/16 02:14	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 02:14	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 02:14	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/16/16 02:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/16/16 02:14	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/16/16 02:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 02:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 02:14	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/16/16 02:14	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/16/16 02:14	67-66-3	
Chloromethane	**0.31J**	ug/L	1.0	0.080	1		01/16/16 02:14	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 02:14	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/16/16 02:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 02:14	107-06-2	
1,1-Dichloroethene	**0.23J**	ug/L	1.0	0.20	1		01/16/16 02:14	75-35-4	
cis-1,2-Dichloroethene	**26.1**	ug/L	1.0	0.080	1		01/16/16 02:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 02:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 02:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 02:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 02:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 02:14	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/16/16 02:14	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/16/16 02:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/16/16 02:14	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 02:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 02:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/16/16 02:14	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/16/16 02:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 02:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 02:14	79-00-5	
Trichloroethene	**51.6**	ug/L	1.0	0.17	1		01/16/16 02:14	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/16/16 02:14	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 02:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/16/16 02:14	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/16/16 02:14	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		01/16/16 02:14	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 02:14		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: DUP-04-201601 **Lab ID: 60211236030** Collected: 01/13/16 11:45 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/16/16 02:29	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/16/16 02:29	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 02:29	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 02:29	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/16/16 02:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/16/16 02:29	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/16/16 02:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 02:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 02:29	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/16/16 02:29	75-00-3	
Chloroform	**0.17J**	ug/L	1.0	0.14	1		01/16/16 02:29	67-66-3	
Chloromethane	**0.55J**	ug/L	1.0	0.080	1		01/16/16 02:29	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 02:29	124-48-1	
1,1-Dichloroethane	**0.23J**	ug/L	1.0	0.050	1		01/16/16 02:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 02:29	107-06-2	
1,1-Dichloroethene	**0.97J**	ug/L	1.0	0.20	1		01/16/16 02:29	75-35-4	
cis-1,2-Dichloroethene	**34.1**	ug/L	1.0	0.080	1		01/16/16 02:29	156-59-2	
trans-1,2-Dichloroethene	**0.32J**	ug/L	1.0	0.20	1		01/16/16 02:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 02:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 02:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 02:29	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 02:29	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/16/16 02:29	591-78-6	
Methylene chloride	**0.60J**	ug/L	1.0	0.15	1		01/16/16 02:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/16/16 02:29	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 02:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 02:29	79-34-5	
Tetrachloroethene	**0.22J**	ug/L	1.0	0.10	1		01/16/16 02:29	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/16/16 02:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 02:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 02:29	79-00-5	
Trichloroethene	**91.3**	ug/L	1.0	0.17	1		01/16/16 02:29	79-01-6	
Vinyl chloride	**1.1**	ug/L	1.0	0.13	1		01/16/16 02:29	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 02:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/16/16 02:29	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/16/16 02:29	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/16/16 02:29	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 02:29		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: DUP-03-201601 **Lab ID: 60211236031** Collected: 01/13/16 15:30 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**9.5J**	ug/L	10.0	1.9	1		01/20/16 15:28	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/20/16 15:28	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/20/16 15:28	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/20/16 15:28	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/20/16 15:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/20/16 15:28	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/20/16 15:28	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/20/16 15:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/20/16 15:28	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/20/16 15:28	75-00-3	
Chloroform	**0.63J**	ug/L	1.0	0.14	1		01/20/16 15:28	67-66-3	
Chloromethane	**0.63J**	ug/L	1.0	0.080	1		01/20/16 15:28	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/20/16 15:28	124-48-1	
1,1-Dichloroethane	**1.9**	ug/L	1.0	0.050	1		01/20/16 15:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/20/16 15:28	107-06-2	
1,1-Dichloroethene	**2.0**	ug/L	1.0	0.20	1		01/20/16 15:28	75-35-4	
cis-1,2-Dichloroethene	**199**	ug/L	1.0	0.080	1		01/20/16 15:28	156-59-2	
trans-1,2-Dichloroethene	**2.0**	ug/L	1.0	0.20	1		01/20/16 15:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/20/16 15:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/20/16 15:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/20/16 15:28	10061-02-6	
Ethylbenzene	**0.40J**	ug/L	1.0	0.18	1		01/20/16 15:28	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/20/16 15:28	591-78-6	
Methylene chloride	**6.9**	ug/L	1.0	0.15	1		01/20/16 15:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/20/16 15:28	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/20/16 15:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/20/16 15:28	79-34-5	
Tetrachloroethene	**1.4**	ug/L	1.0	0.10	1		01/20/16 15:28	127-18-4	
Toluene	**6.4**	ug/L	1.0	0.17	1		01/20/16 15:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/20/16 15:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/20/16 15:28	79-00-5	
Trichloroethene	**2100**	ug/L	50.0	8.5	50		01/20/16 15:42	79-01-6	
Vinyl chloride	**65.3**	ug/L	1.0	0.13	1		01/20/16 15:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/20/16 15:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	77-130		1		01/20/16 15:28	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	81-127		1		01/20/16 15:28	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/20/16 15:28	2037-26-5	
Preservation pH	**4.0**		0.10	0.10	1		01/20/16 15:28		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: EB-05-201601 **Lab ID: 60211236032** Collected: 01/13/16 16:45 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/16/16 00:03	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/16/16 00:03	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 00:03	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 00:03	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/16/16 00:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/16/16 00:03	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/16/16 00:03	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 00:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 00:03	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/16/16 00:03	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/16/16 00:03	67-66-3	
Chloromethane	**0.16J**	ug/L	1.0	0.080	1		01/16/16 00:03	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 00:03	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/16/16 00:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 00:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 00:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/16/16 00:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 00:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 00:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 00:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 00:03	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 00:03	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/16/16 00:03	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/16/16 00:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/16/16 00:03	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 00:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 00:03	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/16/16 00:03	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/16/16 00:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 00:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 00:03	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/16/16 00:03	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/16/16 00:03	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 00:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/16/16 00:03	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/16/16 00:03	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/16/16 00:03	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 00:03		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: EB-06-201601 **Lab ID: 60211236033** Collected: 01/13/16 16:50 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/16/16 00:18	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/16/16 00:18	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 00:18	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 00:18	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/16/16 00:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/16/16 00:18	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/16/16 00:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 00:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 00:18	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/16/16 00:18	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/16/16 00:18	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/16/16 00:18	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 00:18	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/16/16 00:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 00:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 00:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/16/16 00:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 00:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 00:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 00:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 00:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 00:18	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/16/16 00:18	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/16/16 00:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/16/16 00:18	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 00:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 00:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/16/16 00:18	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/16/16 00:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 00:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 00:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/16/16 00:18	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/16/16 00:18	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 00:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/16/16 00:18	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/16/16 00:18	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/16/16 00:18	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 00:18		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: DUP-01-201601 **Lab ID: 60211236034** Collected: 01/13/16 16:26 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/16/16 02:43	67-64-1	L3
Benzene	**0.21J**	ug/L	1.0	0.060	1		01/16/16 02:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 02:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 02:43	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/16/16 02:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/16/16 02:43	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/16/16 02:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 02:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 02:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/16/16 02:43	75-00-3	
Chloroform	**0.35J**	ug/L	1.0	0.14	1		01/16/16 02:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/16/16 02:43	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 02:43	124-48-1	
1,1-Dichloroethane	**3.3**	ug/L	1.0	0.050	1		01/16/16 02:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 02:43	107-06-2	
1,1-Dichloroethene	**5.6**	ug/L	1.0	0.20	1		01/16/16 02:43	75-35-4	
cis-1,2-Dichloroethene	**45.5**	ug/L	1.0	0.080	1		01/16/16 02:43	156-59-2	
trans-1,2-Dichloroethene	**0.46J**	ug/L	1.0	0.20	1		01/16/16 02:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 02:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 02:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 02:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 02:43	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/16/16 02:43	591-78-6	
Methylene chloride	**0.29J**	ug/L	1.0	0.15	1		01/16/16 02:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/16/16 02:43	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 02:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 02:43	79-34-5	
Tetrachloroethene	**1.2**	ug/L	1.0	0.10	1		01/16/16 02:43	127-18-4	
Toluene	**0.23J**	ug/L	1.0	0.17	1		01/16/16 02:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 02:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 02:43	79-00-5	
Trichloroethene	**735**	ug/L	20.0	3.4	20		01/19/16 17:01	79-01-6	
Vinyl chloride	**1.7**	ug/L	1.0	0.13	1		01/16/16 02:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 02:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/16/16 02:43	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/16/16 02:43	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/16/16 02:43	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 02:43		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: TB-19-201601 **Lab ID: 60211236035** Collected: 01/13/16 08:00 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 22:36	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 22:36	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 22:36	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 22:36	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 22:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 22:36	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 22:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 22:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 22:36	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 22:36	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 22:36	67-66-3	
Chloromethane	**0.20J**	ug/L	1.0	0.080	1		01/15/16 22:36	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 22:36	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 22:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 22:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 22:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 22:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 22:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 22:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 22:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 22:36	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 22:36	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 22:36	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 22:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 22:36	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 22:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 22:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 22:36	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 22:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 22:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 22:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 22:36	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 22:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 22:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/15/16 22:36	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/15/16 22:36	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 22:36	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 22:36		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: TB-15-201601 **Lab ID: 60211236036** Collected: 01/13/16 08:00 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 22:51	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 22:51	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 22:51	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 22:51	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 22:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 22:51	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 22:51	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 22:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 22:51	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 22:51	75-00-3	
Chloroform	**0.28J**	ug/L	1.0	0.14	1		01/15/16 22:51	67-66-3	
Chloromethane	**0.30J**	ug/L	1.0	0.080	1		01/15/16 22:51	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 22:51	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 22:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 22:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 22:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 22:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 22:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 22:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 22:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 22:51	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 22:51	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 22:51	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 22:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 22:51	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 22:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 22:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 22:51	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 22:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 22:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 22:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 22:51	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 22:51	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 22:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/15/16 22:51	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		01/15/16 22:51	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		01/15/16 22:51	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 22:51		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: TB-16-201601 **Lab ID: 60211236037** Collected: 01/13/16 08:00 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 23:05	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 23:05	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 23:05	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 23:05	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 23:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 23:05	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 23:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 23:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 23:05	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 23:05	75-00-3	
Chloroform	**0.29J**	ug/L	1.0	0.14	1		01/15/16 23:05	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/15/16 23:05	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 23:05	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 23:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 23:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 23:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 23:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 23:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 23:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 23:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 23:05	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 23:05	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 23:05	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 23:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 23:05	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 23:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 23:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 23:05	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 23:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 23:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 23:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 23:05	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 23:05	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 23:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/15/16 23:05	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/15/16 23:05	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/15/16 23:05	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 23:05		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: TB-17-201601 **Lab ID: 60211236038** Collected: 01/13/16 08:00 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 23:20	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 23:20	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 23:20	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 23:20	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 23:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 23:20	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 23:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 23:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 23:20	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 23:20	75-00-3	
Chloroform	**0.31J**	ug/L	1.0	0.14	1		01/15/16 23:20	67-66-3	
Chloromethane	**0.16J**	ug/L	1.0	0.080	1		01/15/16 23:20	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 23:20	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 23:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 23:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 23:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 23:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 23:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 23:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 23:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 23:20	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 23:20	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 23:20	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 23:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 23:20	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 23:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 23:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 23:20	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 23:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 23:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 23:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 23:20	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 23:20	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 23:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/15/16 23:20	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/15/16 23:20	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 23:20	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 23:20		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: TB-18-201601 **Lab ID: 60211236039** Collected: 01/13/16 08:00 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 23:34	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 23:34	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 23:34	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 23:34	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 23:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 23:34	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 23:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 23:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 23:34	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 23:34	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 23:34	67-66-3	
Chloromethane	**0.088J**	ug/L	1.0	0.080	1		01/15/16 23:34	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 23:34	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 23:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 23:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 23:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 23:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 23:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 23:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 23:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 23:34	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 23:34	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 23:34	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 23:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 23:34	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 23:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 23:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 23:34	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 23:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 23:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 23:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 23:34	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 23:34	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 23:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/15/16 23:34	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/15/16 23:34	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		01/15/16 23:34	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 23:34		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: DUP-08-201601 **Lab ID: 60211236040** Collected: 01/13/16 16:30 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/16/16 02:58	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/16/16 02:58	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 02:58	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 02:58	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/16/16 02:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/16/16 02:58	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/16/16 02:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 02:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 02:58	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/16/16 02:58	75-00-3	
Chloroform	**0.22J**	ug/L	1.0	0.14	1		01/16/16 02:58	67-66-3	
Chloromethane	**0.40J**	ug/L	1.0	0.080	1		01/16/16 02:58	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 02:58	124-48-1	
1,1-Dichloroethane	**1.6**	ug/L	1.0	0.050	1		01/16/16 02:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 02:58	107-06-2	
1,1-Dichloroethene	**4.2**	ug/L	1.0	0.20	1		01/16/16 02:58	75-35-4	
cis-1,2-Dichloroethene	**38.6**	ug/L	1.0	0.080	1		01/16/16 02:58	156-59-2	
trans-1,2-Dichloroethene	**0.48J**	ug/L	1.0	0.20	1		01/16/16 02:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 02:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 02:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 02:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 02:58	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/16/16 02:58	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/16/16 02:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/16/16 02:58	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 02:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 02:58	79-34-5	
Tetrachloroethene	**1.7**	ug/L	1.0	0.10	1		01/16/16 02:58	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/16/16 02:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 02:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 02:58	79-00-5	
Trichloroethene	**422**	ug/L	10.0	1.7	10		01/19/16 17:16	79-01-6	
Vinyl chloride	**0.24J**	ug/L	1.0	0.13	1		01/16/16 02:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 02:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/16/16 02:58	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/16/16 02:58	17060-07-0	
Toluene-d8 (S)	95	%	80-120		1		01/16/16 02:58	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 02:58		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60211236

Sample: TB-20-201601 **Lab ID: 60211236041** Collected: 01/13/16 08:00 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 23:49	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 23:49	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 23:49	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 23:49	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 23:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 23:49	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 23:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 23:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 23:49	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 23:49	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 23:49	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/15/16 23:49	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 23:49	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 23:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 23:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 23:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 23:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 23:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 23:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 23:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 23:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 23:49	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 23:49	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 23:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 23:49	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 23:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 23:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 23:49	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 23:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 23:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 23:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 23:49	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 23:49	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 23:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/15/16 23:49	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		01/15/16 23:49	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/15/16 23:49	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 23:49		

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: GCSV/4908 Analysis Method: EPA 8015 - Alcohol
QC Batch Method: EPA 8015 - Alcohol Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60211236001, 60211236002, 60211236003, 60211236004, 60211236005, 60211236006, 60211236007, 60211236008, 60211236009, 60211236010, 60211236011, 60211236012, 60211236013, 60211236014, 60211236015, 60211236016, 60211236017, 60211236018, 60211236019, 60211236020

METHOD BLANK: 197161 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/25/16 16:13	

LABORATORY CONTROL SAMPLE: 197162

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	102000	102	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 197163 197164

Parameter	Units	60211236001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	107000	108000	107	108	40-140	1	40	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: GCSV/4909 Analysis Method: EPA 8015 - Alcohol
QC Batch Method: EPA 8015 - Alcohol Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60211236021, 60211236022, 60211236023, 60211236024, 60211236025, 60211236026, 60211236027

METHOD BLANK: 197169 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/25/16 16:24	

LABORATORY CONTROL SAMPLE: 197170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	109000	109	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 197171 197172

Parameter	Units	60211236021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	108000	101000	108	101	40-140	6	40	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: MPRP/34610 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60211236001, 60211236002, 60211236003, 60211236004, 60211236005, 60211236006, 60211236007, 60211236008, 60211236009, 60211236010, 60211236011, 60211236012, 60211236013, 60211236014, 60211236015, 60211236016, 60211236017, 60211236018, 60211236019, 60211236020

METHOD BLANK: 1697572 Matrix: Water
Associated Lab Samples: 60211236001, 60211236002, 60211236003, 60211236004, 60211236005, 60211236006, 60211236007, 60211236008, 60211236009, 60211236010, 60211236011, 60211236012, 60211236013, 60211236014, 60211236015, 60211236016, 60211236017, 60211236018, 60211236019, 60211236020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	9.0	01/21/16 17:04	
Manganese	ug/L	ND	5.0	2.4	01/21/16 17:04	

LABORATORY CONTROL SAMPLE: 1697573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10300	103	80-120	
Manganese	ug/L	1000	1020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697574 1697575

Parameter	Units	60211236001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	19.7J	10000	10000	10100	10200	100	102	75-125	1	20	
Manganese	ug/L	47.4	1000	1000	1030	1040	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: MPRP/34611 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60211236021, 60211236022, 60211236023, 60211236024, 60211236025, 60211236026, 60211236027

METHOD BLANK: 1697576 Matrix: Water
Associated Lab Samples: 60211236021, 60211236022, 60211236023, 60211236024, 60211236025, 60211236026, 60211236027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	9.0	01/22/16 13:01	
Manganese	ug/L	ND	5.0	2.4	01/22/16 13:01	

LABORATORY CONTROL SAMPLE: 1697577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9760	98	80-120	
Manganese	ug/L	1000	983	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697578 1697579

Parameter	Units	60211230001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	ND	10000	10000	7720	7770	77	77	75-125	1	20	
Manganese	ug/L	ND	1000	1000	774	787	77	78	75-125	2	20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: MPRP/34719
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 60211236002

METHOD BLANK: 1702335
Matrix: Water
Associated Lab Samples: 60211236002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	9.0	01/26/16 15:05	

LABORATORY CONTROL SAMPLE: 1702336

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9210	92	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: MSV/73769
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211236025

METHOD BLANK: 1697620
Matrix: Water
Associated Lab Samples: 60211236025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	0.17	01/15/16 09:45	
1,2-Dichloroethane-d4 (S)	%	106	80-120		01/15/16 09:45	
4-Bromofluorobenzene (S)	%	101	80-120		01/15/16 09:45	
Toluene-d8 (S)	%	99	80-120		01/15/16 09:45	

LABORATORY CONTROL SAMPLE: 1697621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	20	19.1	96	80-120	
1,2-Dichloroethane-d4 (S)	%			107	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			97	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: MSV/73771 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211236001, 60211236002, 60211236004, 60211236005, 60211236006, 60211236007, 60211236009, 60211236011, 60211236013, 60211236014, 60211236015, 60211236016, 60211236019, 60211236020, 60211236024

METHOD BLANK: 1697708 Matrix: Water
Associated Lab Samples: 60211236001, 60211236002, 60211236004, 60211236005, 60211236006, 60211236007, 60211236009, 60211236011, 60211236013, 60211236014, 60211236015, 60211236016, 60211236019, 60211236020, 60211236024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/15/16 15:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/15/16 15:34	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/15/16 15:34	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/15/16 15:34	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 15:34	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/15/16 15:34	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/15/16 15:34	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/15/16 15:34	
2-Hexanone	ug/L	ND	10.0	1.2	01/15/16 15:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/15/16 15:34	
Acetone	ug/L	ND	10.0	1.9	01/15/16 15:34	
Benzene	ug/L	ND	1.0	0.060	01/15/16 15:34	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/15/16 15:34	
Bromoform	ug/L	ND	1.0	0.070	01/15/16 15:34	
Bromomethane	ug/L	ND	5.0	0.16	01/15/16 15:34	
Carbon disulfide	ug/L	ND	5.0	0.12	01/15/16 15:34	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/15/16 15:34	
Chlorobenzene	ug/L	ND	1.0	0.21	01/15/16 15:34	
Chloroethane	ug/L	ND	1.0	0.15	01/15/16 15:34	
Chloroform	ug/L	ND	1.0	0.14	01/15/16 15:34	
Chloromethane	ug/L	ND	1.0	0.080	01/15/16 15:34	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/15/16 15:34	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/15/16 15:34	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/15/16 15:34	
Ethylbenzene	ug/L	ND	1.0	0.18	01/15/16 15:34	
Methylene chloride	ug/L	ND	1.0	0.15	01/15/16 15:34	
Styrene	ug/L	ND	1.0	0.12	01/15/16 15:34	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/15/16 15:34	
Toluene	ug/L	ND	1.0	0.17	01/15/16 15:34	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 15:34	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/15/16 15:34	
Trichloroethene	ug/L	ND	1.0	0.17	01/15/16 15:34	
Vinyl chloride	ug/L	ND	1.0	0.13	01/15/16 15:34	
Xylene (Total)	ug/L	ND	3.0	0.42	01/15/16 15:34	
1,2-Dichloroethane-d4 (S)	%	106	80-120		01/15/16 15:34	
4-Bromofluorobenzene (S)	%	102	80-120		01/15/16 15:34	
Toluene-d8 (S)	%	101	80-120		01/15/16 15:34	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

LABORATORY CONTROL SAMPLE: 1697709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.7	93	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	18.4	92	73-121	
1,1,2-Trichloroethane	ug/L	20	17.4	87	80-120	
1,1-Dichloroethane	ug/L	20	20.3	102	80-120	
1,1-Dichloroethene	ug/L	20	18.8	94	80-120	
1,2-Dichloroethane	ug/L	20	20.0	100	81-120	
1,2-Dichloropropane	ug/L	20	19.7	98	80-120	
2-Butanone (MEK)	ug/L	100	111	111	67-122	
2-Hexanone	ug/L	100	112	112	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	76-120	
Acetone	ug/L	100	120	120	72-120	
Benzene	ug/L	20	19.8	99	80-120	
Bromodichloromethane	ug/L	20	18.9	95	80-120	
Bromoform	ug/L	20	17.3	86	73-138	
Bromomethane	ug/L	20	23.7	118	38-137	
Carbon disulfide	ug/L	20	20.6	103	71-129	
Carbon tetrachloride	ug/L	20	18.2	91	67-146	
Chlorobenzene	ug/L	20	19.7	99	80-120	
Chloroethane	ug/L	20	19.8	99	76-120	
Chloroform	ug/L	20	18.4	92	80-120	
Chloromethane	ug/L	20	22.9	114	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.7	99	80-120	
Dibromochloromethane	ug/L	20	18.4	92	80-126	
Ethylbenzene	ug/L	20	19.9	99	80-120	
Methylene chloride	ug/L	20	20.4	102	80-120	
Styrene	ug/L	20	21.8	109	80-123	
Tetrachloroethene	ug/L	20	17.9	89	80-123	
Toluene	ug/L	20	19.2	96	80-120	
trans-1,2-Dichloroethene	ug/L	20	17.9	90	80-120	
trans-1,3-Dichloropropene	ug/L	20	19.7	98	80-129	
Trichloroethene	ug/L	20	18.0	90	80-120	
Vinyl chloride	ug/L	20	22.3	112	62-125	
Xylene (Total)	ug/L	60	63.6	106	80-120	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: MSV/73774 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211236026, 60211236027, 60211236028, 60211236029, 60211236030, 60211236032, 60211236033, 60211236034, 60211236035, 60211236036, 60211236037, 60211236038, 60211236039, 60211236040, 60211236041

METHOD BLANK: 1697880 Matrix: Water
Associated Lab Samples: 60211236026, 60211236027, 60211236028, 60211236029, 60211236030, 60211236032, 60211236033, 60211236034, 60211236035, 60211236036, 60211236037, 60211236038, 60211236039, 60211236040, 60211236041

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/15/16 22:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/15/16 22:22	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/15/16 22:22	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/15/16 22:22	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 22:22	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/15/16 22:22	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/15/16 22:22	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/15/16 22:22	
2-Hexanone	ug/L	ND	10.0	1.2	01/15/16 22:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/15/16 22:22	
Acetone	ug/L	ND	10.0	1.9	01/15/16 22:22	
Benzene	ug/L	ND	1.0	0.060	01/15/16 22:22	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/15/16 22:22	
Bromoform	ug/L	ND	1.0	0.070	01/15/16 22:22	
Bromomethane	ug/L	ND	5.0	0.16	01/15/16 22:22	
Carbon disulfide	ug/L	ND	5.0	0.12	01/15/16 22:22	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/15/16 22:22	
Chlorobenzene	ug/L	ND	1.0	0.21	01/15/16 22:22	
Chloroethane	ug/L	ND	1.0	0.15	01/15/16 22:22	
Chloroform	ug/L	ND	1.0	0.14	01/15/16 22:22	
Chloromethane	ug/L	ND	1.0	0.080	01/15/16 22:22	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/15/16 22:22	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/15/16 22:22	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/15/16 22:22	
Ethylbenzene	ug/L	ND	1.0	0.18	01/15/16 22:22	
Methylene chloride	ug/L	ND	1.0	0.15	01/15/16 22:22	
Styrene	ug/L	ND	1.0	0.12	01/15/16 22:22	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/15/16 22:22	
Toluene	ug/L	ND	1.0	0.17	01/15/16 22:22	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 22:22	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/15/16 22:22	
Trichloroethene	ug/L	ND	1.0	0.17	01/15/16 22:22	
Vinyl chloride	ug/L	ND	1.0	0.13	01/15/16 22:22	
Xylene (Total)	ug/L	ND	3.0	0.42	01/15/16 22:22	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/15/16 22:22	
4-Bromofluorobenzene (S)	%	102	80-120		01/15/16 22:22	
Toluene-d8 (S)	%	100	80-120		01/15/16 22:22	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

LABORATORY CONTROL SAMPLE: 1697881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.0	95	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	18.7	93	73-121	
1,1,2-Trichloroethane	ug/L	20	18.0	90	80-120	
1,1-Dichloroethane	ug/L	20	20.7	104	80-120	
1,1-Dichloroethene	ug/L	20	16.7	83	80-120	
1,2-Dichloroethane	ug/L	20	20.1	101	81-120	
1,2-Dichloropropane	ug/L	20	19.3	97	80-120	
2-Butanone (MEK)	ug/L	100	115	115	67-122	
2-Hexanone	ug/L	100	107	107	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	76-120	
Acetone	ug/L	100	128	128	72-120	L0
Benzene	ug/L	20	20.4	102	80-120	
Bromodichloromethane	ug/L	20	19.0	95	80-120	
Bromoform	ug/L	20	17.1	85	73-138	
Bromomethane	ug/L	20	27.2	136	38-137	
Carbon disulfide	ug/L	20	19.2	96	71-129	
Carbon tetrachloride	ug/L	20	18.5	93	67-146	
Chlorobenzene	ug/L	20	19.6	98	80-120	
Chloroethane	ug/L	20	19.8	99	76-120	
Chloroform	ug/L	20	18.0	90	80-120	
Chloromethane	ug/L	20	24.1	121	34-165	
cis-1,2-Dichloroethene	ug/L	20	19.1	96	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.1	100	80-120	
Dibromochloromethane	ug/L	20	18.3	92	80-126	
Ethylbenzene	ug/L	20	20.5	102	80-120	
Methylene chloride	ug/L	20	18.7	94	80-120	
Styrene	ug/L	20	21.4	107	80-123	
Tetrachloroethene	ug/L	20	17.8	89	80-123	
Toluene	ug/L	20	20.3	101	80-120	
trans-1,2-Dichloroethene	ug/L	20	16.6	83	80-120	
trans-1,3-Dichloropropene	ug/L	20	19.4	97	80-129	
Trichloroethene	ug/L	20	18.6	93	80-120	
Vinyl chloride	ug/L	20	22.4	112	62-125	
Xylene (Total)	ug/L	60	62.3	104	80-120	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			98	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: MSV/73785 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211236001, 60211236011, 60211236015, 60211236016, 60211236020, 60211236028, 60211236034, 60211236040

METHOD BLANK: 1698841 Matrix: Water
Associated Lab Samples: 60211236001, 60211236011, 60211236015, 60211236016, 60211236020, 60211236028, 60211236034, 60211236040

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	0.17	01/19/16 12:11	
1,2-Dichloroethane-d4 (S)	%	101	81-127		01/19/16 12:11	
4-Bromofluorobenzene (S)	%	99	77-130		01/19/16 12:11	
Toluene-d8 (S)	%	98	80-120		01/19/16 12:11	

LABORATORY CONTROL SAMPLE: 1698842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	20	18.3	91	76-114	
1,2-Dichloroethane-d4 (S)	%			101	81-127	
4-Bromofluorobenzene (S)	%			99	77-130	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: MSV/73827 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211236002, 60211236004, 60211236007, 60211236024, 60211236025

METHOD BLANK: 1699807 Matrix: Water
Associated Lab Samples: 60211236002, 60211236004, 60211236007, 60211236024, 60211236025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/20/16 14:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/20/16 14:30	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/20/16 14:30	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/20/16 14:30	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/20/16 14:30	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/20/16 14:30	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/20/16 14:30	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/20/16 14:30	
2-Hexanone	ug/L	ND	10.0	1.2	01/20/16 14:30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/20/16 14:30	
Acetone	ug/L	ND	10.0	1.9	01/20/16 14:30	
Benzene	ug/L	ND	1.0	0.060	01/20/16 14:30	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/20/16 14:30	
Bromoform	ug/L	ND	1.0	0.070	01/20/16 14:30	
Bromomethane	ug/L	0.45J	5.0	0.16	01/20/16 14:30	
Carbon disulfide	ug/L	ND	5.0	0.12	01/20/16 14:30	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/20/16 14:30	
Chlorobenzene	ug/L	ND	1.0	0.21	01/20/16 14:30	
Chloroethane	ug/L	ND	1.0	0.15	01/20/16 14:30	
Chloroform	ug/L	ND	1.0	0.14	01/20/16 14:30	
Chloromethane	ug/L	0.24J	1.0	0.080	01/20/16 14:30	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/20/16 14:30	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/20/16 14:30	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/20/16 14:30	
Ethylbenzene	ug/L	ND	1.0	0.18	01/20/16 14:30	
Methylene chloride	ug/L	0.62J	1.0	0.15	01/20/16 14:30	
Styrene	ug/L	ND	1.0	0.12	01/20/16 14:30	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/20/16 14:30	
Toluene	ug/L	ND	1.0	0.17	01/20/16 14:30	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/20/16 14:30	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/20/16 14:30	
Vinyl chloride	ug/L	ND	1.0	0.13	01/20/16 14:30	
Xylene (Total)	ug/L	ND	3.0	0.42	01/20/16 14:30	
1,2-Dichloroethane-d4 (S)	%	113	81-127		01/20/16 14:30	
4-Bromofluorobenzene (S)	%	100	77-130		01/20/16 14:30	
Toluene-d8 (S)	%	101	80-120		01/20/16 14:30	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

LABORATORY CONTROL SAMPLE: 1699808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	16.6	83	81-116	
1,1,2,2-Tetrachloroethane	ug/L	20	17.3	86	72-117	
1,1,2-Trichloroethane	ug/L	20	16.7	83	79-108	
1,1-Dichloroethane	ug/L	20	17.1	86	83-117	
1,1-Dichloroethene	ug/L	20	15.8	79	74-114	
1,2-Dichloroethane	ug/L	20	17.8	89	72-116	
1,2-Dichloropropane	ug/L	20	16.5	83	80-120	
2-Butanone (MEK)	ug/L	100	92.6	93	67-129	
2-Hexanone	ug/L	100	93.4	93	70-128	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.3	92	80-120	
Acetone	ug/L	100	102	102	56-142	
Benzene	ug/L	20	17.5	87	79-116	
Bromodichloromethane	ug/L	20	18.0	90	80-120	
Bromoform	ug/L	20	17.1	85	73-114	
Bromomethane	ug/L	20	17.0	85	49-153	
Carbon disulfide	ug/L	20	17.5	87	82-121	
Carbon tetrachloride	ug/L	20	16.5	82	80-116	
Chlorobenzene	ug/L	20	17.6	88	80-120	
Chloroethane	ug/L	20	18.4	92	67-124	
Chloroform	ug/L	20	16.7	83	79-120	
Chloromethane	ug/L	20	17.8	89	10-192	
cis-1,2-Dichloroethene	ug/L	20	16.3	82	80-120	
cis-1,3-Dichloropropene	ug/L	20	17.7	88	80-120	
Dibromochloromethane	ug/L	20	17.3	86	80-120	
Ethylbenzene	ug/L	20	17.7	89	80-120	
Methylene chloride	ug/L	20	17.8	89	80-120	
Styrene	ug/L	20	19.0	95	80-120	
Tetrachloroethene	ug/L	20	16.1	80	80-120	
Toluene	ug/L	20	17.4	87	80-120	
trans-1,2-Dichloroethene	ug/L	20	16.1	81	78-108	
trans-1,3-Dichloropropene	ug/L	20	17.9	90	85-120	
Vinyl chloride	ug/L	20	18.9	94	69-129	
Xylene (Total)	ug/L	60	55.5	92	80-120	
1,2-Dichloroethane-d4 (S)	%			110	81-127	
4-Bromofluorobenzene (S)	%			102	77-130	
Toluene-d8 (S)	%			102	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: MSV/73768 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 7 day
Associated Lab Samples: 60211236008, 60211236010, 60211236012, 60211236017, 60211236018, 60211236021, 60211236022, 60211236023

METHOD BLANK: 1697618 Matrix: Water
Associated Lab Samples: 60211236008, 60211236010, 60211236012, 60211236017, 60211236018, 60211236021, 60211236022, 60211236023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/15/16 09:45	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/15/16 09:45	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/15/16 09:45	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/15/16 09:45	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 09:45	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/15/16 09:45	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/15/16 09:45	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/15/16 09:45	
2-Hexanone	ug/L	ND	10.0	1.2	01/15/16 09:45	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/15/16 09:45	
Acetone	ug/L	ND	10.0	1.9	01/15/16 09:45	
Benzene	ug/L	ND	1.0	0.060	01/15/16 09:45	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/15/16 09:45	
Bromoform	ug/L	ND	1.0	0.070	01/15/16 09:45	
Bromomethane	ug/L	ND	5.0	0.16	01/15/16 09:45	
Carbon disulfide	ug/L	ND	5.0	0.12	01/15/16 09:45	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/15/16 09:45	
Chlorobenzene	ug/L	ND	1.0	0.21	01/15/16 09:45	
Chloroethane	ug/L	ND	1.0	0.15	01/15/16 09:45	
Chloroform	ug/L	ND	1.0	0.14	01/15/16 09:45	
Chloromethane	ug/L	0.37J	1.0	0.080	01/15/16 09:45	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/15/16 09:45	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/15/16 09:45	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/15/16 09:45	
Ethylbenzene	ug/L	ND	1.0	0.18	01/15/16 09:45	
Methylene chloride	ug/L	ND	1.0	0.15	01/15/16 09:45	
Styrene	ug/L	ND	1.0	0.12	01/15/16 09:45	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/15/16 09:45	
Toluene	ug/L	ND	1.0	0.17	01/15/16 09:45	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 09:45	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/15/16 09:45	
Trichloroethene	ug/L	ND	1.0	0.17	01/15/16 09:45	
Vinyl chloride	ug/L	ND	1.0	0.13	01/15/16 09:45	
Xylene (Total)	ug/L	ND	3.0	0.42	01/15/16 09:45	
1,2-Dichloroethane-d4 (S)	%	106	80-120		01/15/16 09:45	
4-Bromofluorobenzene (S)	%	101	80-120		01/15/16 09:45	
Toluene-d8 (S)	%	99	80-120		01/15/16 09:45	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

LABORATORY CONTROL SAMPLE: 1697619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.0	100	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	73-121	
1,1,2-Trichloroethane	ug/L	20	18.6	93	80-120	
1,1-Dichloroethane	ug/L	20	21.3	107	80-120	
1,1-Dichloroethene	ug/L	20	19.7	99	80-120	
1,2-Dichloroethane	ug/L	20	21.3	106	81-120	
1,2-Dichloropropane	ug/L	20	20.2	101	80-120	
2-Butanone (MEK)	ug/L	100	118	118	67-122	
2-Hexanone	ug/L	100	114	114	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	117	117	76-120	
Acetone	ug/L	100	128	128	72-120	L0
Benzene	ug/L	20	21.3	107	80-120	
Bromodichloromethane	ug/L	20	19.9	100	80-120	
Bromoform	ug/L	20	17.1	86	73-138	
Bromomethane	ug/L	20	24.4	122	38-137	
Carbon disulfide	ug/L	20	22.4	112	71-129	
Carbon tetrachloride	ug/L	20	19.2	96	67-146	
Chlorobenzene	ug/L	20	20.5	103	80-120	
Chloroethane	ug/L	20	21.7	109	76-120	
Chloroform	ug/L	20	19.5	98	80-120	
Chloromethane	ug/L	20	24.1	120	34-165	
cis-1,2-Dichloroethene	ug/L	20	20.3	101	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.7	104	80-120	
Dibromochloromethane	ug/L	20	18.9	94	80-126	
Ethylbenzene	ug/L	20	21.3	106	80-120	
Methylene chloride	ug/L	20	20.7	104	80-120	
Styrene	ug/L	20	23.2	116	80-123	
Tetrachloroethene	ug/L	20	18.6	93	80-123	
Toluene	ug/L	20	20.1	101	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.3	101	80-129	
Trichloroethene	ug/L	20	19.1	96	80-120	
Vinyl chloride	ug/L	20	24.2	121	62-125	
Xylene (Total)	ug/L	60	66.4	111	80-120	
1,2-Dichloroethane-d4 (S)	%			107	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			97	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: MSV/73784 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 7 day
Associated Lab Samples: 60211236008, 60211236010, 60211236012, 60211236018

METHOD BLANK: 1698830 Matrix: Water
Associated Lab Samples: 60211236008, 60211236010, 60211236012, 60211236018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/19/16 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/19/16 12:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/19/16 12:11	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/19/16 12:11	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/19/16 12:11	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/19/16 12:11	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/19/16 12:11	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/19/16 12:11	
2-Hexanone	ug/L	ND	10.0	1.2	01/19/16 12:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/19/16 12:11	
Acetone	ug/L	ND	10.0	1.9	01/19/16 12:11	
Benzene	ug/L	ND	1.0	0.060	01/19/16 12:11	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/19/16 12:11	
Bromoform	ug/L	ND	1.0	0.070	01/19/16 12:11	
Bromomethane	ug/L	0.29J	5.0	0.16	01/19/16 12:11	
Carbon disulfide	ug/L	0.15J	5.0	0.12	01/19/16 12:11	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/19/16 12:11	
Chlorobenzene	ug/L	ND	1.0	0.21	01/19/16 12:11	
Chloroethane	ug/L	ND	1.0	0.15	01/19/16 12:11	
Chloroform	ug/L	ND	1.0	0.14	01/19/16 12:11	
Chloromethane	ug/L	0.22J	1.0	0.080	01/19/16 12:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/19/16 12:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/19/16 12:11	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/19/16 12:11	
Ethylbenzene	ug/L	ND	1.0	0.18	01/19/16 12:11	
Methylene chloride	ug/L	ND	1.0	0.15	01/19/16 12:11	
Styrene	ug/L	ND	1.0	0.12	01/19/16 12:11	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/19/16 12:11	
Toluene	ug/L	ND	1.0	0.17	01/19/16 12:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/19/16 12:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/19/16 12:11	
Trichloroethene	ug/L	ND	1.0	0.17	01/19/16 12:11	
Vinyl chloride	ug/L	ND	1.0	0.13	01/19/16 12:11	
Xylene (Total)	ug/L	ND	3.0	0.42	01/19/16 12:11	
1,2-Dichloroethane-d4 (S)	%	101	81-127		01/19/16 12:11	
4-Bromofluorobenzene (S)	%	99	77-130		01/19/16 12:11	
Toluene-d8 (S)	%	98	80-120		01/19/16 12:11	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

LABORATORY CONTROL SAMPLE: 1698831

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	81-116	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	93	72-117	
1,1,2-Trichloroethane	ug/L	20	18.2	91	79-108	
1,1-Dichloroethane	ug/L	20	20.1	100	83-117	
1,1-Dichloroethene	ug/L	20	19.6	98	74-114	
1,2-Dichloroethane	ug/L	20	19.7	99	72-116	
1,2-Dichloropropane	ug/L	20	18.7	94	80-120	
2-Butanone (MEK)	ug/L	100	108	108	67-129	
2-Hexanone	ug/L	100	104	104	70-128	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	80-120	
Acetone	ug/L	100	119	119	56-142	
Benzene	ug/L	20	20.4	102	79-116	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	19.0	95	73-114	
Bromomethane	ug/L	20	17.4	87	49-153	
Carbon disulfide	ug/L	20	20.9	104	82-121	
Carbon tetrachloride	ug/L	20	19.3	97	80-116	
Chlorobenzene	ug/L	20	19.3	97	80-120	
Chloroethane	ug/L	20	21.6	108	67-124	
Chloroform	ug/L	20	18.5	93	79-120	
Chloromethane	ug/L	20	22.2	111	10-192	
cis-1,2-Dichloroethene	ug/L	20	18.7	93	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	80-120	
Dibromochloromethane	ug/L	20	20.1	101	80-120	
Ethylbenzene	ug/L	20	19.5	98	80-120	
Methylene chloride	ug/L	20	21.0	105	80-120	
Styrene	ug/L	20	20.4	102	80-120	
Tetrachloroethene	ug/L	20	19.5	98	80-120	
Toluene	ug/L	20	19.5	98	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	78-108	
trans-1,3-Dichloropropene	ug/L	20	19.7	99	85-120	
Trichloroethene	ug/L	20	18.3	91	76-114	
Vinyl chloride	ug/L	20	22.5	112	69-129	
Xylene (Total)	ug/L	60	59.5	99	80-120	
1,2-Dichloroethane-d4 (S)	%			101	81-127	
4-Bromofluorobenzene (S)	%			99	77-130	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: MSV/73805
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 7 day
Associated Lab Samples: 60211236017

METHOD BLANK: 1699466
Matrix: Water
Associated Lab Samples: 60211236017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	10.0	1.9	01/20/16 08:40	
1,2-Dichloroethane-d4 (S)	%	112	81-127		01/20/16 08:40	
4-Bromofluorobenzene (S)	%	101	77-130		01/20/16 08:40	
Toluene-d8 (S)	%	101	80-120		01/20/16 08:40	

LABORATORY CONTROL SAMPLE: 1699467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	100	108	108	56-142	
1,2-Dichloroethane-d4 (S)	%			105	81-127	
4-Bromofluorobenzene (S)	%			102	77-130	
Toluene-d8 (S)	%			100	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: MSV/73826 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 7 day
Associated Lab Samples: 60211236003, 60211236021, 60211236022, 60211236023, 60211236031

METHOD BLANK: 1699805 Matrix: Water
Associated Lab Samples: 60211236003, 60211236021, 60211236022, 60211236023, 60211236031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/20/16 14:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/20/16 14:30	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/20/16 14:30	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/20/16 14:30	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/20/16 14:30	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/20/16 14:30	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/20/16 14:30	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/20/16 14:30	
2-Hexanone	ug/L	ND	10.0	1.2	01/20/16 14:30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/20/16 14:30	
Acetone	ug/L	ND	10.0	1.9	01/20/16 14:30	
Benzene	ug/L	ND	1.0	0.060	01/20/16 14:30	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/20/16 14:30	
Bromoform	ug/L	ND	1.0	0.070	01/20/16 14:30	
Bromomethane	ug/L	0.45J	5.0	0.16	01/20/16 14:30	
Carbon disulfide	ug/L	ND	5.0	0.12	01/20/16 14:30	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/20/16 14:30	
Chlorobenzene	ug/L	ND	1.0	0.21	01/20/16 14:30	
Chloroethane	ug/L	ND	1.0	0.15	01/20/16 14:30	
Chloroform	ug/L	ND	1.0	0.14	01/20/16 14:30	
Chloromethane	ug/L	0.24J	1.0	0.080	01/20/16 14:30	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/20/16 14:30	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/20/16 14:30	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/20/16 14:30	
Ethylbenzene	ug/L	ND	1.0	0.18	01/20/16 14:30	
Methylene chloride	ug/L	0.62J	1.0	0.15	01/20/16 14:30	
Styrene	ug/L	ND	1.0	0.12	01/20/16 14:30	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/20/16 14:30	
Toluene	ug/L	ND	1.0	0.17	01/20/16 14:30	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/20/16 14:30	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/20/16 14:30	
Trichloroethene	ug/L	ND	1.0	0.17	01/20/16 14:30	
Vinyl chloride	ug/L	ND	1.0	0.13	01/20/16 14:30	
Xylene (Total)	ug/L	ND	3.0	0.42	01/20/16 14:30	
1,2-Dichloroethane-d4 (S)	%	113	81-127		01/20/16 14:30	
4-Bromofluorobenzene (S)	%	100	77-130		01/20/16 14:30	
Toluene-d8 (S)	%	101	80-120		01/20/16 14:30	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

LABORATORY CONTROL SAMPLE: 1699806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	16.6	83	81-116	
1,1,2,2-Tetrachloroethane	ug/L	20	17.3	86	72-117	
1,1,2-Trichloroethane	ug/L	20	16.7	83	79-108	
1,1-Dichloroethane	ug/L	20	17.1	86	83-117	
1,1-Dichloroethene	ug/L	20	15.8	79	74-114	
1,2-Dichloroethane	ug/L	20	17.8	89	72-116	
1,2-Dichloropropane	ug/L	20	16.5	83	80-120	
2-Butanone (MEK)	ug/L	100	92.6	93	67-129	
2-Hexanone	ug/L	100	93.4	93	70-128	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.3	92	80-120	
Acetone	ug/L	100	102	102	56-142	
Benzene	ug/L	20	17.5	87	79-116	
Bromodichloromethane	ug/L	20	18.0	90	80-120	
Bromoform	ug/L	20	17.1	85	73-114	
Bromomethane	ug/L	20	17.0	85	49-153	
Carbon disulfide	ug/L	20	17.5	87	82-121	
Carbon tetrachloride	ug/L	20	16.5	82	80-116	
Chlorobenzene	ug/L	20	17.6	88	80-120	
Chloroethane	ug/L	20	18.4	92	67-124	
Chloroform	ug/L	20	16.7	83	79-120	
Chloromethane	ug/L	20	17.8	89	10-192	
cis-1,2-Dichloroethene	ug/L	20	16.3	82	80-120	
cis-1,3-Dichloropropene	ug/L	20	17.7	88	80-120	
Dibromochloromethane	ug/L	20	17.3	86	80-120	
Ethylbenzene	ug/L	20	17.7	89	80-120	
Methylene chloride	ug/L	20	17.8	89	80-120	
Styrene	ug/L	20	19.0	95	80-120	
Tetrachloroethene	ug/L	20	16.1	80	80-120	
Toluene	ug/L	20	17.4	87	80-120	
trans-1,2-Dichloroethene	ug/L	20	16.1	81	78-108	
trans-1,3-Dichloropropene	ug/L	20	17.9	90	85-120	
Trichloroethene	ug/L	20	16.2	81	76-114	
Vinyl chloride	ug/L	20	18.9	94	69-129	
Xylene (Total)	ug/L	60	55.5	92	80-120	
1,2-Dichloroethane-d4 (S)	%			110	81-127	
4-Bromofluorobenzene (S)	%			102	77-130	
Toluene-d8 (S)	%			102	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: WET/59694 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60211236001, 60211236002, 60211236003, 60211236004, 60211236005, 60211236006, 60211236007, 60211236008, 60211236009, 60211236010, 60211236011, 60211236012, 60211236013, 60211236014, 60211236015, 60211236016, 60211236017

METHOD BLANK: 1700730 Matrix: Water
Associated Lab Samples: 60211236001, 60211236002, 60211236003, 60211236004, 60211236005, 60211236006, 60211236007, 60211236008, 60211236009, 60211236010, 60211236011, 60211236012, 60211236013, 60211236014, 60211236015, 60211236016, 60211236017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/25/16 09:34	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/25/16 09:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/25/16 09:34	

LABORATORY CONTROL SAMPLE: 1700731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	479	96	90-110	

SAMPLE DUPLICATE: 1700732

Parameter	Units	60211085029 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	89.1	89.6	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	89.1	89.6	1	10	

SAMPLE DUPLICATE: 1700733

Parameter	Units	60211236006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	62.6	63.4	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	62.6	61.4	2	10	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: WET/59717 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60211236018, 60211236019, 60211236020, 60211236021, 60211236022, 60211236023, 60211236024, 60211236025, 60211236026, 60211236027

METHOD BLANK: 1701427 Matrix: Water
Associated Lab Samples: 60211236018, 60211236019, 60211236020, 60211236021, 60211236022, 60211236023, 60211236024, 60211236025, 60211236026, 60211236027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/25/16 12:40	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/25/16 12:40	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/25/16 12:40	

LABORATORY CONTROL SAMPLE: 1701428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	483	97	90-110	

SAMPLE DUPLICATE: 1701429

Parameter	Units	60211236023 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	278	273	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	278	273	2	10	

SAMPLE DUPLICATE: 1701430

Parameter	Units	60211325004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	366	375	3	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	358	375	5	10	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: WET/59625 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60211236001, 60211236002, 60211236003, 60211236004, 60211236005, 60211236006, 60211236007, 60211236008, 60211236009, 60211236010

METHOD BLANK: 1698832 Matrix: Water
Associated Lab Samples: 60211236001, 60211236002, 60211236003, 60211236004, 60211236005, 60211236006, 60211236007, 60211236008, 60211236009, 60211236010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/19/16 15:10	

LABORATORY CONTROL SAMPLE: 1698833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.50	99	80-120	

MATRIX SPIKE SAMPLE: 1698834

Parameter	Units	60211085022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.50	100	75-125	

SAMPLE DUPLICATE: 1698835

Parameter	Units	60211085026 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1698836

Parameter	Units	60211085029 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: WET/59644 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60211236011, 60211236012, 60211236013, 60211236014, 60211236015, 60211236016, 60211236017, 60211236018, 60211236019, 60211236020, 60211236021, 60211236022, 60211236023, 60211236024, 60211236025, 60211236026, 60211236027

METHOD BLANK: 1699240 Matrix: Water
Associated Lab Samples: 60211236011, 60211236012, 60211236013, 60211236014, 60211236015, 60211236016, 60211236017, 60211236018, 60211236019, 60211236020, 60211236021, 60211236022, 60211236023, 60211236024, 60211236025, 60211236026, 60211236027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/19/16 15:41	

LABORATORY CONTROL SAMPLE: 1699241

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.50	99	80-120	

MATRIX SPIKE SAMPLE: 1699242

Parameter	Units	60211236011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.49	99	75-125	

SAMPLE DUPLICATE: 1699243

Parameter	Units	60211236012 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1699244

Parameter	Units	60211236020 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: WETA/37757 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60211236001, 60211236002, 60211236003, 60211236004, 60211236005, 60211236006, 60211236007, 60211236008, 60211236009, 60211236010, 60211236011, 60211236012, 60211236013, 60211236014, 60211236015, 60211236016, 60211236017, 60211236018, 60211236019, 60211236020

METHOD BLANK: 1698546 Matrix: Water
Associated Lab Samples: 60211236001, 60211236002, 60211236003, 60211236004, 60211236005, 60211236006, 60211236007, 60211236008, 60211236009, 60211236011, 60211236013, 60211236014, 60211236015, 60211236016, 60211236017, 60211236018, 60211236019, 60211236020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/18/16 09:20	
Sulfate	mg/L	ND	1.0	0.25	01/18/16 09:20	

METHOD BLANK: 1698898 Matrix: Water
Associated Lab Samples: 60211236010, 60211236012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/19/16 08:39	
Sulfate	mg/L	ND	1.0	0.25	01/19/16 08:39	

LABORATORY CONTROL SAMPLE: 1698547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	5	5.0	100	90-110	

LABORATORY CONTROL SAMPLE: 1698899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	97	90-110	
Sulfate	mg/L	5	5.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1698548 1698549

Parameter	Units	60211236001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	61.5	25	25	84.7	84.6	93	92	80-120	0	15	
Sulfate	mg/L	12.1	5	5	16.5	16.6	87	90	80-120	1	15	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

MATRIX SPIKE SAMPLE: 1698550

Parameter	Units	60211236010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	6.4	5	11.2	95	80-120	
Sulfate	mg/L	71.9	50	115	87	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: WETA/37758 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60211236021, 60211236022, 60211236023, 60211236024, 60211236025, 60211236026, 60211236027

METHOD BLANK: 1698551 Matrix: Water
Associated Lab Samples: 60211236021, 60211236022, 60211236023, 60211236025, 60211236026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/18/16 07:54	
Sulfate	mg/L	ND	1.0	0.25	01/18/16 07:54	

METHOD BLANK: 1698904 Matrix: Water
Associated Lab Samples: 60211236024, 60211236027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/19/16 08:39	
Sulfate	mg/L	ND	1.0	0.25	01/19/16 08:39	

LABORATORY CONTROL SAMPLE: 1698552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	5	5.0	101	90-110	

LABORATORY CONTROL SAMPLE: 1698905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	97	90-110	
Sulfate	mg/L	5	5.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1698553 1698554

Parameter	Units	60211236021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	389	1000	1000	1340	1340	95	95	80-120	0	15	
Sulfate	mg/L	1580	1000	1000	2490	2480	91	90	80-120	0	15	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: WETA/37793 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60211236001, 60211236002, 60211236003, 60211236004, 60211236005, 60211236006, 60211236007, 60211236008, 60211236009, 60211236010, 60211236011, 60211236012, 60211236013, 60211236014, 60211236015, 60211236016, 60211236017, 60211236018, 60211236019, 60211236020

METHOD BLANK: 1699382 Matrix: Water
Associated Lab Samples: 60211236001, 60211236002, 60211236003, 60211236004, 60211236005, 60211236006, 60211236007, 60211236008, 60211236009, 60211236010, 60211236011, 60211236012, 60211236013, 60211236014, 60211236015, 60211236016, 60211236017, 60211236018, 60211236019, 60211236020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/20/16 08:13	

LABORATORY CONTROL SAMPLE: 1699383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1699384

Parameter	Units	60211236001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.4	70	90-110	M1

MATRIX SPIKE SAMPLE: 1699385

Parameter	Units	60211236002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.3	64	90-110	M1

SAMPLE DUPLICATE: 1699386

Parameter	Units	60211236003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: WETA/37794 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60211236021, 60211236022, 60211236023, 60211236024, 60211236025, 60211236026, 60211236027

METHOD BLANK: 1699387 Matrix: Water
Associated Lab Samples: 60211236021, 60211236022, 60211236023, 60211236024, 60211236025, 60211236026, 60211236027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/20/16 08:46	

LABORATORY CONTROL SAMPLE: 1699388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.2	108	90-110	

MATRIX SPIKE SAMPLE: 1699389

Parameter	Units	60211236021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.074J	2	1.3	64	90-110	M1

MATRIX SPIKE SAMPLE: 1699390

Parameter	Units	60211236022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.19	2	1.4	63	90-110	M1

SAMPLE DUPLICATE: 1699391

Parameter	Units	60211236023 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	1.1	1.1	3	18	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: WETA/37729 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60211236001, 60211236002, 60211236003, 60211236004, 60211236005, 60211236006, 60211236007, 60211236008, 60211236009, 60211236010, 60211236011, 60211236012, 60211236013, 60211236014, 60211236015, 60211236016, 60211236017, 60211236018

METHOD BLANK: 1697435 Matrix: Water
Associated Lab Samples: 60211236001, 60211236002, 60211236003, 60211236004, 60211236005, 60211236006, 60211236007, 60211236008, 60211236009, 60211236010, 60211236011, 60211236012, 60211236013, 60211236014, 60211236015, 60211236016, 60211236017, 60211236018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.014	01/14/16 18:26	
Nitrogen, Nitrite	mg/L	ND	0.10	0.023	01/14/16 18:26	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	0.014	01/14/16 18:26	

LABORATORY CONTROL SAMPLE: 1697436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.4	90	85-115	
Nitrogen, Nitrite	mg/L	.4	0.37	93	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	1.8	90	90-110	

MATRIX SPIKE SAMPLE: 1697437

Parameter	Units	60211136001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	7.6	8	14.2	83	85-115	M1
Nitrogen, Nitrite	mg/L	ND	2	2.1	104	90-110	
Nitrogen, NO2 plus NO3	mg/L	7.6	10	16.3	87	90-110	M1

MATRIX SPIKE SAMPLE: 1697438

Parameter	Units	60211191002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.9	1.6	3.2	78	85-115	M1
Nitrogen, Nitrite	mg/L	ND	.4	0.51	121	90-110	M1
Nitrogen, NO2 plus NO3	mg/L	1.9	2	3.7	86	90-110	M1

SAMPLE DUPLICATE: 1697439

Parameter	Units	60211236001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	3.2	3.2	1	20	
Nitrogen, Nitrite	mg/L	ND	ND		20	
Nitrogen, NO2 plus NO3	mg/L	3.2	3.2	1	20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: WETA/37730 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60211236019, 60211236020, 60211236021, 60211236022, 60211236023, 60211236024, 60211236025, 60211236026, 60211236027

METHOD BLANK: 1697440 Matrix: Water
Associated Lab Samples: 60211236019, 60211236020, 60211236021, 60211236022, 60211236023, 60211236024, 60211236025, 60211236026, 60211236027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.014	01/14/16 18:51	
Nitrogen, Nitrite	mg/L	ND	0.10	0.023	01/14/16 18:51	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	0.014	01/14/16 18:51	

LABORATORY CONTROL SAMPLE: 1697441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.5	94	85-115	
Nitrogen, Nitrite	mg/L	.4	0.39	98	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	1.9	95	90-110	

MATRIX SPIKE SAMPLE: 1697442

Parameter	Units	60211242001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.16	1.6	1.7	94	85-115	
Nitrogen, Nitrite	mg/L	ND	.4	0.42	106	90-110	
Nitrogen, NO2 plus NO3	mg/L	0.16	2	2.1	97	90-110	

MATRIX SPIKE SAMPLE: 1697443

Parameter	Units	60211242003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.36	1.6	1.8	93	85-115	
Nitrogen, Nitrite	mg/L	ND	.4	0.42	104	90-110	
Nitrogen, NO2 plus NO3	mg/L	0.36	2	2.3	95	90-110	

SAMPLE DUPLICATE: 1697444

Parameter	Units	60211243001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.31	0.32	1	20	
Nitrogen, Nitrite	mg/L	ND	ND		20	
Nitrogen, NO2 plus NO3	mg/L	0.31	0.32	1	20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: WETA/37818
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60211236001, 60211236002

METHOD BLANK: 1700498 Matrix: Water
Associated Lab Samples: 60211236001, 60211236002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/21/16 14:36	

LABORATORY CONTROL SAMPLE: 1700499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.0	100	80-120	

MATRIX SPIKE SAMPLE: 1700500

Parameter	Units	60211085022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	5	5.1	92	80-120	

SAMPLE DUPLICATE: 1700501

Parameter	Units	60211513008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	47.0	44.3	6	25	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: WETA/37819 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60211236003, 60211236004

METHOD BLANK: 1700577 Matrix: Water
Associated Lab Samples: 60211236003, 60211236004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/25/16 11:54	

LABORATORY CONTROL SAMPLE: 1700578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.1	101	80-120	

MATRIX SPIKE SAMPLE: 1700579

Parameter	Units	60211085026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	4.1	5	8.5	88	80-120	

SAMPLE DUPLICATE: 1700580

Parameter	Units	60211085029 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	0.65J	0.60J		25	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: WETA/37820 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60211236020, 60211236021, 60211236022, 60211236023, 60211236024, 60211236025, 60211236026, 60211236027

METHOD BLANK: 1700581 Matrix: Water
Associated Lab Samples: 60211236020, 60211236021, 60211236022, 60211236023, 60211236024, 60211236025, 60211236026, 60211236027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/26/16 22:43	

LABORATORY CONTROL SAMPLE: 1700582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.2	103	80-120	

MATRIX SPIKE SAMPLE: 1700583

Parameter	Units	60211236020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	5	5.9	108	80-120	

SAMPLE DUPLICATE: 1700584

Parameter	Units	60211236021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.1	1.1	3	25	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: WETA/37847 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60211236005, 60211236006, 60211236007, 60211236008, 60211236009, 60211236010, 60211236011, 60211236012, 60211236013, 60211236014, 60211236015, 60211236016, 60211236017, 60211236018, 60211236019

METHOD BLANK: 1701675 Matrix: Water
Associated Lab Samples: 60211236005, 60211236006, 60211236007, 60211236008, 60211236009, 60211236010, 60211236011, 60211236012, 60211236013, 60211236014, 60211236015, 60211236016, 60211236017, 60211236018, 60211236019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/26/16 17:31	

LABORATORY CONTROL SAMPLE: 1701676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.5	110	80-120	

MATRIX SPIKE SAMPLE: 1701677

Parameter	Units	60211236005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	5	3.3	63	80-120	M1

SAMPLE DUPLICATE: 1701678

Parameter	Units	60211236006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: WETA/10298
QC Batch Method: SM4500-P B
Analysis Method: SM 4500-P E
Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60211236001

METHOD BLANK: 196611 Matrix: Water
Associated Lab Samples: 60211236001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.030	0.010	01/21/16 15:14	

LABORATORY CONTROL SAMPLE: 196612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.4	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196613 196614

Parameter	Units	60211085022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.040	1.5	1.5	1.3	1.4	85	87	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196615 196616

Parameter	Units	60211085026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.11	1.5	1.5	1.5	1.3	90	80	80-120	10	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196617 196618

Parameter	Units	60211085029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.19	1.5	1.5	1.5	1.5	87	89	80-120	2	20	

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: WETA/10307 Analysis Method: SM 4500-P E
QC Batch Method: SM4500-P B Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60211236002, 60211236003, 60211236004, 60211236005, 60211236006, 60211236007, 60211236008, 60211236009, 60211236010, 60211236011, 60211236012, 60211236013, 60211236014, 60211236015, 60211236016

METHOD BLANK: 197132 Matrix: Water
Associated Lab Samples: 60211236002, 60211236003, 60211236004, 60211236005, 60211236006, 60211236007, 60211236008, 60211236009, 60211236010, 60211236011, 60211236012, 60211236013, 60211236014, 60211236015, 60211236016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.014J	0.030	0.010	01/22/16 16:04	

LABORATORY CONTROL SAMPLE: 197133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.4	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 197134 197135

Parameter	Units	60211236002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.17	1.5	1.5	1.5	1.6	85	91	80-120	6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 197136 197137

Parameter	Units	60211236007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.24	1.5	1.5	1.6	1.5	86	82	80-120	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60211236

QC Batch: WETA/10318 Analysis Method: SM 4500-P E
QC Batch Method: SM4500-P B Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60211236017, 60211236018, 60211236019, 60211236020, 60211236021, 60211236022, 60211236023, 60211236024, 60211236025, 60211236026, 60211236027

METHOD BLANK: 197442 Matrix: Water
Associated Lab Samples: 60211236017, 60211236018, 60211236019, 60211236020, 60211236021, 60211236022, 60211236023, 60211236024, 60211236025, 60211236026, 60211236027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.010J	0.030	0.010	01/23/16 13:52	

LABORATORY CONTROL SAMPLE: 197443

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.4	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 197444 197445

Parameter	Units	60211236017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.10	1.5	1.5	1.5	1.4	88	84	80-120	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 197446 197447

Parameter	Units	60211236018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.73	1.5	1.5	2.1	2.1	93	91	80-120	1	20	

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QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60211236

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-D	Pace Analytical Services - Dallas
PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73768
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/73769
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/73771
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/73774
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/73784
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/73785
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/73805
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/73826
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60211236

BATCH QUALIFIERS

Batch: MSV/73827
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: WET/59748
[1] Ferrous Fe performed in the field
Batch: WET/59749
[1] Ferrous Fe performed in the field
Batch: WET/59750
[1] Ferrous Fe perfromed in the field
Batch: WET/59755
[1] Field pH
Batch: WET/59756
[1] Field pH

ANALYTE QUALIFIERS

1e	Total Iron was confirmed.
B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211236001	**MW-87-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236002	**MW-93-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236003	**MW-94-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236004	**MW-95-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236005	**MW-26-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236006	**ITMW-1-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236007	**MW-38-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236008	**MW-92-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236009	**ITMW-13-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236010	**ITMW-11-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236011	**ITMW-12-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236012	**ITMW-15-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236013	**ITMW-21-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236014	**ITMW-7-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236015	**MW-182-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236016	**ITMW-10-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236017	**ITMW-18-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236018	**ITMW-19-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236019	**ITMW-9-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236020	**MW-91-201601**	EPA 8015 - Alcohol	GCSV/4908		
60211236021	**MW-85-201601**	EPA 8015 - Alcohol	GCSV/4909		
60211236022	**MW-25-201601**	EPA 8015 - Alcohol	GCSV/4909		
60211236023	**MW-86-201601**	EPA 8015 - Alcohol	GCSV/4909		
60211236024	**ITMW-17-201601**	EPA 8015 - Alcohol	GCSV/4909		
60211236025	**MW-172-201601**	EPA 8015 - Alcohol	GCSV/4909		
60211236026	**ITMW-16-201601**	EPA 8015 - Alcohol	GCSV/4909		
60211236027	**MW-29-201601**	EPA 8015 - Alcohol	GCSV/4909		
60211236001	**MW-87-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236002	**MW-93-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236002	**MW-93-201601**	EPA 3010	MPRP/34719	EPA 6010	ICP/25450
60211236003	**MW-94-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236004	**MW-95-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236005	**MW-26-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236006	**ITMW-1-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236007	**MW-38-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236008	**MW-92-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236009	**ITMW-13-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236010	**ITMW-11-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236011	**ITMW-12-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236012	**ITMW-15-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236013	**ITMW-21-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236014	**ITMW-7-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236015	**MW-182-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236016	**ITMW-10-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236017	**ITMW-18-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236018	**ITMW-19-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236019	**ITMW-9-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211236020	**MW-91-201601**	EPA 3010	MPRP/34610	EPA 6010	ICP/25385
60211236021	**MW-85-201601**	EPA 3010	MPRP/34611	EPA 6010	ICP/25386
60211236022	**MW-25-201601**	EPA 3010	MPRP/34611	EPA 6010	ICP/25386
60211236023	**MW-86-201601**	EPA 3010	MPRP/34611	EPA 6010	ICP/25386
60211236024	**ITMW-17-201601**	EPA 3010	MPRP/34611	EPA 6010	ICP/25386
60211236025	**MW-172-201601**	EPA 3010	MPRP/34611	EPA 6010	ICP/25386
60211236026	**ITMW-16-201601**	EPA 3010	MPRP/34611	EPA 6010	ICP/25386
60211236027	**MW-29-201601**	EPA 3010	MPRP/34611	EPA 6010	ICP/25386
60211236001	**MW-87-201601**	EPA 5030B/8260	MSV/73771		
60211236001	**MW-87-201601**	EPA 5030B/8260	MSV/73785		
60211236002	**MW-93-201601**	EPA 5030B/8260	MSV/73771		
60211236002	**MW-93-201601**	EPA 5030B/8260	MSV/73827		
60211236004	**MW-95-201601**	EPA 5030B/8260	MSV/73771		
60211236004	**MW-95-201601**	EPA 5030B/8260	MSV/73827		
60211236005	**MW-26-201601**	EPA 5030B/8260	MSV/73771		
60211236006	**ITMW-1-201601**	EPA 5030B/8260	MSV/73771		
60211236007	**MW-38-201601**	EPA 5030B/8260	MSV/73771		
60211236007	**MW-38-201601**	EPA 5030B/8260	MSV/73827		
60211236009	**ITMW-13-201601**	EPA 5030B/8260	MSV/73771		
60211236011	**ITMW-12-201601**	EPA 5030B/8260	MSV/73771		
60211236011	**ITMW-12-201601**	EPA 5030B/8260	MSV/73785		
60211236013	**ITMW-21-201601**	EPA 5030B/8260	MSV/73771		
60211236014	**ITMW-7-201601**	EPA 5030B/8260	MSV/73771		
60211236015	**MW-182-201601**	EPA 5030B/8260	MSV/73771		
60211236015	**MW-182-201601**	EPA 5030B/8260	MSV/73785		
60211236016	**ITMW-10-201601**	EPA 5030B/8260	MSV/73771		
60211236016	**ITMW-10-201601**	EPA 5030B/8260	MSV/73785		
60211236019	**ITMW-9-201601**	EPA 5030B/8260	MSV/73771		
60211236020	**MW-91-201601**	EPA 5030B/8260	MSV/73771		
60211236020	**MW-91-201601**	EPA 5030B/8260	MSV/73785		
60211236024	**ITMW-17-201601**	EPA 5030B/8260	MSV/73771		
60211236024	**ITMW-17-201601**	EPA 5030B/8260	MSV/73827		
60211236025	**MW-172-201601**	EPA 5030B/8260	MSV/73769		
60211236025	**MW-172-201601**	EPA 5030B/8260	MSV/73827		
60211236026	**ITMW-16-201601**	EPA 5030B/8260	MSV/73774		
60211236027	**MW-29-201601**	EPA 5030B/8260	MSV/73774		
60211236028	**DUP-09-201601**	EPA 5030B/8260	MSV/73774		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211236028	**DUP-09-201601**	EPA 5030B/8260	MSV/73785		
60211236029	**DUP-02-201601**	EPA 5030B/8260	MSV/73774		
60211236030	**DUP-04-201601**	EPA 5030B/8260	MSV/73774		
60211236032	**EB-05-201601**	EPA 5030B/8260	MSV/73774		
60211236033	**EB-06-201601**	EPA 5030B/8260	MSV/73774		
60211236034	**DUP-01-201601**	EPA 5030B/8260	MSV/73774		
60211236034	**DUP-01-201601**	EPA 5030B/8260	MSV/73785		
60211236035	**TB-19-201601**	EPA 5030B/8260	MSV/73774		
60211236036	**TB-15-201601**	EPA 5030B/8260	MSV/73774		
60211236037	**TB-16-201601**	EPA 5030B/8260	MSV/73774		
60211236038	**TB-17-201601**	EPA 5030B/8260	MSV/73774		
60211236039	**TB-18-201601**	EPA 5030B/8260	MSV/73774		
60211236040	**DUP-08-201601**	EPA 5030B/8260	MSV/73774		
60211236040	**DUP-08-201601**	EPA 5030B/8260	MSV/73785		
60211236041	**TB-20-201601**	EPA 5030B/8260	MSV/73774		
60211236003	**MW-94-201601**	EPA 5030B/8260	MSV/73826		
60211236008	**MW-92-201601**	EPA 5030B/8260	MSV/73768		
60211236008	**MW-92-201601**	EPA 5030B/8260	MSV/73784		
60211236010	**ITMW-11-201601**	EPA 5030B/8260	MSV/73768		
60211236010	**ITMW-11-201601**	EPA 5030B/8260	MSV/73784		
60211236012	**ITMW-15-201601**	EPA 5030B/8260	MSV/73768		
60211236012	**ITMW-15-201601**	EPA 5030B/8260	MSV/73784		
60211236017	**ITMW-18-201601**	EPA 5030B/8260	MSV/73768		
60211236017	**ITMW-18-201601**	EPA 5030B/8260	MSV/73805		
60211236018	**ITMW-19-201601**	EPA 5030B/8260	MSV/73768		
60211236018	**ITMW-19-201601**	EPA 5030B/8260	MSV/73784		
60211236021	**MW-85-201601**	EPA 5030B/8260	MSV/73768		
60211236021	**MW-85-201601**	EPA 5030B/8260	MSV/73826		
60211236022	**MW-25-201601**	EPA 5030B/8260	MSV/73768		
60211236022	**MW-25-201601**	EPA 5030B/8260	MSV/73826		
60211236023	**MW-86-201601**	EPA 5030B/8260	MSV/73768		
60211236023	**MW-86-201601**	EPA 5030B/8260	MSV/73826		
60211236031	**DUP-03-201601**	EPA 5030B/8260	MSV/73826		
60211236001	**MW-87-201601**	SM 2320B	WET/59694		
60211236002	**MW-93-201601**	SM 2320B	WET/59694		
60211236003	**MW-94-201601**	SM 2320B	WET/59694		
60211236004	**MW-95-201601**	SM 2320B	WET/59694		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211236005	MW-26-201601	SM 2320B	WET/59694		
60211236006	ITMW-1-201601	SM 2320B	WET/59694		
60211236007	MW-38-201601	SM 2320B	WET/59694		
60211236008	MW-92-201601	SM 2320B	WET/59694		
60211236009	ITMW-13-201601	SM 2320B	WET/59694		
60211236010	ITMW-11-201601	SM 2320B	WET/59694		
60211236011	ITMW-12-201601	SM 2320B	WET/59694		
60211236012	ITMW-15-201601	SM 2320B	WET/59694		
60211236013	ITMW-21-201601	SM 2320B	WET/59694		
60211236014	ITMW-7-201601	SM 2320B	WET/59694		
60211236015	MW-182-201601	SM 2320B	WET/59694		
60211236016	ITMW-10-201601	SM 2320B	WET/59694		
60211236017	ITMW-18-201601	SM 2320B	WET/59694		
60211236018	ITMW-19-201601	SM 2320B	WET/59717		
60211236019	ITMW-9-201601	SM 2320B	WET/59717		
60211236020	MW-91-201601	SM 2320B	WET/59717		
60211236021	MW-85-201601	SM 2320B	WET/59717		
60211236022	MW-25-201601	SM 2320B	WET/59717		
60211236023	MW-86-201601	SM 2320B	WET/59717		
60211236024	ITMW-17-201601	SM 2320B	WET/59717		
60211236025	MW-172-201601	SM 2320B	WET/59717		
60211236026	ITMW-16-201601	SM 2320B	WET/59717		
60211236027	MW-29-201601	SM 2320B	WET/59717		
60211236001	MW-87-201601	SM 3500-Fe B#4	WET/59748		
60211236002	MW-93-201601	SM 3500-Fe B#4	WET/59750		
60211236003	MW-94-201601	SM 3500-Fe B#4	WET/59748		
60211236004	MW-95-201601	SM 3500-Fe B#4	WET/59750		
60211236005	MW-26-201601	SM 3500-Fe B#4	WET/59748		
60211236006	ITMW-1-201601	SM 3500-Fe B#4	WET/59748		
60211236007	MW-38-201601	SM 3500-Fe B#4	WET/59748		
60211236008	MW-92-201601	SM 3500-Fe B#4	WET/59748		
60211236009	ITMW-13-201601	SM 3500-Fe B#4	WET/59748		
60211236010	ITMW-11-201601	SM 3500-Fe B#4	WET/59748		
60211236011	ITMW-12-201601	SM 3500-Fe B#4	WET/59748		
60211236012	ITMW-15-201601	SM 3500-Fe B#4	WET/59748		
60211236013	ITMW-21-201601	SM 3500-Fe B#4	WET/59748		
60211236014	ITMW-7-201601	SM 3500-Fe B#4	WET/59748		
60211236015	MW-182-201601	SM 3500-Fe B#4	WET/59748		
60211236016	ITMW-10-201601	SM 3500-Fe B#4	WET/59748		
60211236017	ITMW-18-201601	SM 3500-Fe B#4	WET/59749		
60211236018	ITMW-19-201601	SM 3500-Fe B#4	WET/59749		
60211236019	ITMW-9-201601	SM 3500-Fe B#4	WET/59749		
60211236020	MW-91-201601	SM 3500-Fe B#4	WET/59749		
60211236021	MW-85-201601	SM 3500-Fe B#4	WET/59749		
60211236022	MW-25-201601	SM 3500-Fe B#4	WET/59749		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211236023	**MW-86-201601**	SM 3500-Fe B#4	WET/59749		
60211236024	**ITMW-17-201601**	SM 3500-Fe B#4	WET/59749		
60211236025	**MW-172-201601**	SM 3500-Fe B#4	WET/59749		
60211236026	**ITMW-16-201601**	SM 3500-Fe B#4	WET/59749		
60211236027	**MW-29-201601**	SM 3500-Fe B#4	WET/59749		
60211236001	**MW-87-201601**	SM 4500-H+B	WET/59755		
60211236002	**MW-93-201601**	SM 4500-H+B	WET/59756		
60211236003	**MW-94-201601**	SM 4500-H+B	WET/59755		
60211236004	**MW-95-201601**	SM 4500-H+B	WET/59756		
60211236005	**MW-26-201601**	SM 4500-H+B	WET/59755		
60211236006	**ITMW-1-201601**	SM 4500-H+B	WET/59756		
60211236007	**MW-38-201601**	SM 4500-H+B	WET/59756		
60211236008	**MW-92-201601**	SM 4500-H+B	WET/59756		
60211236009	**ITMW-13-201601**	SM 4500-H+B	WET/59755		
60211236010	**ITMW-11-201601**	SM 4500-H+B	WET/59756		
60211236011	**ITMW-12-201601**	SM 4500-H+B	WET/59756		
60211236012	**ITMW-15-201601**	SM 4500-H+B	WET/59755		
60211236013	**ITMW-21-201601**	SM 4500-H+B	WET/59755		
60211236014	**ITMW-7-201601**	SM 4500-H+B	WET/59756		
60211236015	**MW-182-201601**	SM 4500-H+B	WET/59756		
60211236016	**ITMW-10-201601**	SM 4500-H+B	WET/59756		
60211236017	**ITMW-18-201601**	SM 4500-H+B	WET/59755		
60211236018	**ITMW-19-201601**	SM 4500-H+B	WET/59756		
60211236019	**ITMW-9-201601**	SM 4500-H+B	WET/59756		
60211236020	**MW-91-201601**	SM 4500-H+B	WET/59756		
60211236021	**MW-85-201601**	SM 4500-H+B	WET/59755		
60211236022	**MW-25-201601**	SM 4500-H+B	WET/59756		
60211236023	**MW-86-201601**	SM 4500-H+B	WET/59756		
60211236024	**ITMW-17-201601**	SM 4500-H+B	WET/59756		
60211236025	**MW-172-201601**	SM 4500-H+B	WET/59756		
60211236026	**ITMW-16-201601**	SM 4500-H+B	WET/59755		
60211236027	**MW-29-201601**	SM 4500-H+B	WET/59755		
60211236001	**MW-87-201601**	SM 4500-S-2 D	WET/59625		
60211236002	**MW-93-201601**	SM 4500-S-2 D	WET/59625		
60211236003	**MW-94-201601**	SM 4500-S-2 D	WET/59625		
60211236004	**MW-95-201601**	SM 4500-S-2 D	WET/59625		
60211236005	**MW-26-201601**	SM 4500-S-2 D	WET/59625		
60211236006	**ITMW-1-201601**	SM 4500-S-2 D	WET/59625		
60211236007	**MW-38-201601**	SM 4500-S-2 D	WET/59625		
60211236008	**MW-92-201601**	SM 4500-S-2 D	WET/59625		
60211236009	**ITMW-13-201601**	SM 4500-S-2 D	WET/59625		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211236010	ITMW-11-201601	SM 4500-S-2 D	WET/59625		
60211236011	ITMW-12-201601	SM 4500-S-2 D	WET/59644		
60211236012	ITMW-15-201601	SM 4500-S-2 D	WET/59644		
60211236013	ITMW-21-201601	SM 4500-S-2 D	WET/59644		
60211236014	ITMW-7-201601	SM 4500-S-2 D	WET/59644		
60211236015	MW-182-201601	SM 4500-S-2 D	WET/59644		
60211236016	ITMW-10-201601	SM 4500-S-2 D	WET/59644		
60211236017	ITMW-18-201601	SM 4500-S-2 D	WET/59644		
60211236018	ITMW-19-201601	SM 4500-S-2 D	WET/59644		
60211236019	ITMW-9-201601	SM 4500-S-2 D	WET/59644		
60211236020	MW-91-201601	SM 4500-S-2 D	WET/59644		
60211236021	MW-85-201601	SM 4500-S-2 D	WET/59644		
60211236022	MW-25-201601	SM 4500-S-2 D	WET/59644		
60211236023	MW-86-201601	SM 4500-S-2 D	WET/59644		
60211236024	ITMW-17-201601	SM 4500-S-2 D	WET/59644		
60211236025	MW-172-201601	SM 4500-S-2 D	WET/59644		
60211236026	ITMW-16-201601	SM 4500-S-2 D	WET/59644		
60211236027	MW-29-201601	SM 4500-S-2 D	WET/59644		
60211236001	MW-87-201601	EPA 300.0	WETA/37757		
60211236002	MW-93-201601	EPA 300.0	WETA/37757		
60211236003	MW-94-201601	EPA 300.0	WETA/37757		
60211236004	MW-95-201601	EPA 300.0	WETA/37757		
60211236005	MW-26-201601	EPA 300.0	WETA/37757		
60211236006	ITMW-1-201601	EPA 300.0	WETA/37757		
60211236007	MW-38-201601	EPA 300.0	WETA/37757		
60211236008	MW-92-201601	EPA 300.0	WETA/37757		
60211236009	ITMW-13-201601	EPA 300.0	WETA/37757		
60211236010	ITMW-11-201601	EPA 300.0	WETA/37757		
60211236011	ITMW-12-201601	EPA 300.0	WETA/37757		
60211236012	ITMW-15-201601	EPA 300.0	WETA/37757		
60211236013	ITMW-21-201601	EPA 300.0	WETA/37757		
60211236014	ITMW-7-201601	EPA 300.0	WETA/37757		
60211236015	MW-182-201601	EPA 300.0	WETA/37757		
60211236016	ITMW-10-201601	EPA 300.0	WETA/37757		
60211236017	ITMW-18-201601	EPA 300.0	WETA/37757		
60211236018	ITMW-19-201601	EPA 300.0	WETA/37757		
60211236019	ITMW-9-201601	EPA 300.0	WETA/37757		
60211236020	MW-91-201601	EPA 300.0	WETA/37757		
60211236021	MW-85-201601	EPA 300.0	WETA/37758		
60211236022	MW-25-201601	EPA 300.0	WETA/37758		
60211236023	MW-86-201601	EPA 300.0	WETA/37758		
60211236024	ITMW-17-201601	EPA 300.0	WETA/37758		
60211236025	MW-172-201601	EPA 300.0	WETA/37758		
60211236026	ITMW-16-201601	EPA 300.0	WETA/37758		
60211236027	MW-29-201601	EPA 300.0	WETA/37758		
60211236001	MW-87-201601	EPA 350.1	WETA/37793		
60211236002	MW-93-201601	EPA 350.1	WETA/37793		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211236003	**MW-94-201601**	EPA 350.1	WETA/37793		
60211236004	**MW-95-201601**	EPA 350.1	WETA/37793		
60211236005	**MW-26-201601**	EPA 350.1	WETA/37793		
60211236006	**ITMW-1-201601**	EPA 350.1	WETA/37793		
60211236007	**MW-38-201601**	EPA 350.1	WETA/37793		
60211236008	**MW-92-201601**	EPA 350.1	WETA/37793		
60211236009	**ITMW-13-201601**	EPA 350.1	WETA/37793		
60211236010	**ITMW-11-201601**	EPA 350.1	WETA/37793		
60211236011	**ITMW-12-201601**	EPA 350.1	WETA/37793		
60211236012	**ITMW-15-201601**	EPA 350.1	WETA/37793		
60211236013	**ITMW-21-201601**	EPA 350.1	WETA/37793		
60211236014	**ITMW-7-201601**	EPA 350.1	WETA/37793		
60211236015	**MW-182-201601**	EPA 350.1	WETA/37793		
60211236016	**ITMW-10-201601**	EPA 350.1	WETA/37793		
60211236017	**ITMW-18-201601**	EPA 350.1	WETA/37793		
60211236018	**ITMW-19-201601**	EPA 350.1	WETA/37793		
60211236019	**ITMW-9-201601**	EPA 350.1	WETA/37793		
60211236020	**MW-91-201601**	EPA 350.1	WETA/37793		
60211236021	**MW-85-201601**	EPA 350.1	WETA/37794		
60211236022	**MW-25-201601**	EPA 350.1	WETA/37794		
60211236023	**MW-86-201601**	EPA 350.1	WETA/37794		
60211236024	**ITMW-17-201601**	EPA 350.1	WETA/37794		
60211236025	**MW-172-201601**	EPA 350.1	WETA/37794		
60211236026	**ITMW-16-201601**	EPA 350.1	WETA/37794		
60211236027	**MW-29-201601**	EPA 350.1	WETA/37794		
60211236001	**MW-87-201601**	EPA 353.2	WETA/37729		
60211236002	**MW-93-201601**	EPA 353.2	WETA/37729		
60211236003	**MW-94-201601**	EPA 353.2	WETA/37729		
60211236004	**MW-95-201601**	EPA 353.2	WETA/37729		
60211236005	**MW-26-201601**	EPA 353.2	WETA/37729		
60211236006	**ITMW-1-201601**	EPA 353.2	WETA/37729		
60211236007	**MW-38-201601**	EPA 353.2	WETA/37729		
60211236008	**MW-92-201601**	EPA 353.2	WETA/37729		
60211236009	**ITMW-13-201601**	EPA 353.2	WETA/37729		
60211236010	**ITMW-11-201601**	EPA 353.2	WETA/37729		
60211236011	**ITMW-12-201601**	EPA 353.2	WETA/37729		
60211236012	**ITMW-15-201601**	EPA 353.2	WETA/37729		
60211236013	**ITMW-21-201601**	EPA 353.2	WETA/37729		
60211236014	**ITMW-7-201601**	EPA 353.2	WETA/37729		
60211236015	**MW-182-201601**	EPA 353.2	WETA/37729		
60211236016	**ITMW-10-201601**	EPA 353.2	WETA/37729		
60211236017	**ITMW-18-201601**	EPA 353.2	WETA/37729		
60211236018	**ITMW-19-201601**	EPA 353.2	WETA/37729		
60211236019	**ITMW-9-201601**	EPA 353.2	WETA/37730		
60211236020	**MW-91-201601**	EPA 353.2	WETA/37730		
60211236021	**MW-85-201601**	EPA 353.2	WETA/37730		
60211236022	**MW-25-201601**	EPA 353.2	WETA/37730		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211236023	MW-86-201601	EPA 353.2	WETA/37730		
60211236024	ITMW-17-201601	EPA 353.2	WETA/37730		
60211236025	MW-172-201601	EPA 353.2	WETA/37730		
60211236026	ITMW-16-201601	EPA 353.2	WETA/37730		
60211236027	MW-29-201601	EPA 353.2	WETA/37730		
60211236001	MW-87-201601	SM 4500-CO2 D	WETA/37870		
60211236002	MW-93-201601	SM 4500-CO2 D	WETA/37870		
60211236003	MW-94-201601	SM 4500-CO2 D	WETA/37870		
60211236004	MW-95-201601	SM 4500-CO2 D	WETA/37870		
60211236005	MW-26-201601	SM 4500-CO2 D	WETA/37870		
60211236006	ITMW-1-201601	SM 4500-CO2 D	WETA/37870		
60211236007	MW-38-201601	SM 4500-CO2 D	WETA/37870		
60211236008	MW-92-201601	SM 4500-CO2 D	WETA/37870		
60211236009	ITMW-13-201601	SM 4500-CO2 D	WETA/37870		
60211236010	ITMW-11-201601	SM 4500-CO2 D	WETA/37870		
60211236011	ITMW-12-201601	SM 4500-CO2 D	WETA/37870		
60211236012	ITMW-15-201601	SM 4500-CO2 D	WETA/37870		
60211236013	ITMW-21-201601	SM 4500-CO2 D	WETA/37871		
60211236014	ITMW-7-201601	SM 4500-CO2 D	WETA/37871		
60211236015	MW-182-201601	SM 4500-CO2 D	WETA/37871		
60211236016	ITMW-10-201601	SM 4500-CO2 D	WETA/37871		
60211236017	ITMW-18-201601	SM 4500-CO2 D	WETA/37871		
60211236018	ITMW-19-201601	SM 4500-CO2 D	WETA/37871		
60211236019	ITMW-9-201601	SM 4500-CO2 D	WETA/37871		
60211236020	MW-91-201601	SM 4500-CO2 D	WETA/37871		
60211236021	MW-85-201601	SM 4500-CO2 D	WETA/37871		
60211236022	MW-25-201601	SM 4500-CO2 D	WETA/37871		
60211236023	MW-86-201601	SM 4500-CO2 D	WETA/37871		
60211236024	ITMW-17-201601	SM 4500-CO2 D	WETA/37871		
60211236025	MW-172-201601	SM 4500-CO2 D	WETA/37871		
60211236026	ITMW-16-201601	SM 4500-CO2 D	WETA/37871		
60211236027	MW-29-201601	SM 4500-CO2 D	WETA/37871		
60211236001	MW-87-201601	SM 5310C	WETA/37818		
60211236002	MW-93-201601	SM 5310C	WETA/37818		
60211236003	MW-94-201601	SM 5310C	WETA/37819		
60211236004	MW-95-201601	SM 5310C	WETA/37819		
60211236005	MW-26-201601	SM 5310C	WETA/37847		
60211236006	ITMW-1-201601	SM 5310C	WETA/37847		
60211236007	MW-38-201601	SM 5310C	WETA/37847		
60211236008	MW-92-201601	SM 5310C	WETA/37847		
60211236009	ITMW-13-201601	SM 5310C	WETA/37847		
60211236010	ITMW-11-201601	SM 5310C	WETA/37847		
60211236011	ITMW-12-201601	SM 5310C	WETA/37847		
60211236012	ITMW-15-201601	SM 5310C	WETA/37847		
60211236013	ITMW-21-201601	SM 5310C	WETA/37847		
60211236014	ITMW-7-201601	SM 5310C	WETA/37847		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60211236

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211236015	**MW-182-201601**	SM 5310C	WETA/37847		
60211236016	**ITMW-10-201601**	SM 5310C	WETA/37847		
60211236017	**ITMW-18-201601**	SM 5310C	WETA/37847		
60211236018	**ITMW-19-201601**	SM 5310C	WETA/37847		
60211236019	**ITMW-9-201601**	SM 5310C	WETA/37847		
60211236020	**MW-91-201601**	SM 5310C	WETA/37820		
60211236021	**MW-85-201601**	SM 5310C	WETA/37820		
60211236022	**MW-25-201601**	SM 5310C	WETA/37820		
60211236023	**MW-86-201601**	SM 5310C	WETA/37820		
60211236024	**ITMW-17-201601**	SM 5310C	WETA/37820		
60211236025	**MW-172-201601**	SM 5310C	WETA/37820		
60211236026	**ITMW-16-201601**	SM 5310C	WETA/37820		
60211236027	**MW-29-201601**	SM 5310C	WETA/37820		
60211236001	**MW-87-201601**	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211236002	**MW-93-201601**	SM4500-P B	WETA/10307	SM 4500-P E	WETA/10311
60211236003	**MW-94-201601**	SM4500-P B	WETA/10307	SM 4500-P E	WETA/10311
60211236004	**MW-95-201601**	SM4500-P B	WETA/10307	SM 4500-P E	WETA/10311
60211236005	**MW-26-201601**	SM4500-P B	WETA/10307	SM 4500-P E	WETA/10311
60211236006	**ITMW-1-201601**	SM4500-P B	WETA/10307	SM 4500-P E	WETA/10311
60211236007	**MW-38-201601**	SM4500-P B	WETA/10307	SM 4500-P E	WETA/10311
60211236008	**MW-92-201601**	SM4500-P B	WETA/10307	SM 4500-P E	WETA/10311
60211236009	**ITMW-13-201601**	SM4500-P B	WETA/10307	SM 4500-P E	WETA/10311
60211236010	**ITMW-11-201601**	SM4500-P B	WETA/10307	SM 4500-P E	WETA/10311
60211236011	**ITMW-12-201601**	SM4500-P B	WETA/10307	SM 4500-P E	WETA/10311
60211236012	**ITMW-15-201601**	SM4500-P B	WETA/10307	SM 4500-P E	WETA/10311
60211236013	**ITMW-21-201601**	SM4500-P B	WETA/10307	SM 4500-P E	WETA/10311
60211236014	**ITMW-7-201601**	SM4500-P B	WETA/10307	SM 4500-P E	WETA/10311
60211236015	**MW-182-201601**	SM4500-P B	WETA/10307	SM 4500-P E	WETA/10311
60211236016	**ITMW-10-201601**	SM4500-P B	WETA/10307	SM 4500-P E	WETA/10311
60211236017	**ITMW-18-201601**	SM4500-P B	WETA/10318	SM 4500-P E	WETA/10323
60211236018	**ITMW-19-201601**	SM4500-P B	WETA/10318	SM 4500-P E	WETA/10323
60211236019	**ITMW-9-201601**	SM4500-P B	WETA/10318	SM 4500-P E	WETA/10323
60211236020	**MW-91-201601**	SM4500-P B	WETA/10318	SM 4500-P E	WETA/10323
60211236021	**MW-85-201601**	SM4500-P B	WETA/10318	SM 4500-P E	WETA/10323
60211236022	**MW-25-201601**	SM4500-P B	WETA/10318	SM 4500-P E	WETA/10323
60211236023	**MW-86-201601**	SM4500-P B	WETA/10318	SM 4500-P E	WETA/10323
60211236024	**ITMW-17-201601**	SM4500-P B	WETA/10318	SM 4500-P E	WETA/10323
60211236025	**MW-172-201601**	SM4500-P B	WETA/10318	SM 4500-P E	WETA/10323
60211236026	**ITMW-16-201601**	SM4500-P B	WETA/10318	SM 4500-P E	WETA/10323
60211236027	**MW-29-201601**	SM4500-P B	WETA/10318	SM 4500-P E	WETA/10323

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Sample Condition Upon Receipt

WO# : 60211236

60211236

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☒ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☒ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 1.2 3.0 4.2 5.0 3.0 3.6 4.2

Date and initials of person examining contents: JB 1/14

Temperature should be above freezing to 6°C

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 holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. NO_2 NO_3 pH
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8. # 10/12 of vials.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9. All 3 preserved vials for
Containers intact:	☒Yes ☐No ☐N/A	10. Sample 010 "ITMW-11" on COC
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11. have a prepinted label that KB 1/15 says MW-84
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12. All 3 preserved vials for 012 "ITMW-15"
Sample labels match COC:	☒Yes ☐No ☐N/A	on COC have p.p. labels that say TMW-11
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	No ID MW-84 on COC or TMW-11 on COC.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	14. Times of collection correct for both samples
Exceptions: VOA Coliform, O&G, WI-DRO (water)	☒Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☒Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): Covered		15.
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☒N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 01/14/16

F-KS-C-003-Rev.9, 30June2015

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 4

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH + Zinc Acetate	$Na_2S_2O_3$	Methanol	Other Ascorbic Acid	Y/N	8260 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-87-201601 BP3N AG3S BP3S BP3N	WT	G	1/13/16		1/13/16	0850		11	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	N	60211236
2	MW-93-201601	WT	G			1/13/16	1423		11	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	N	
3	MW-94-201601	WT	G			1/13/16	1102		11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	X	N	
4	MW-95-201601	WT	G			1/13/16	1306		11	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	N	
5	MW-26-201601	WT	G			1/13/16	1110		11	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	N	
6	ITMW-1-201601	WT	G			1/13/16	1630		11	X	X	X		X					X	X	X	X	X	X	X	X	X	X	N	
7	MW-35-201601	WT	G			1/13/16	1500		11	X	X	X		X					X	X	X	X	X	X	X	X	X	X	N	
8	MW-92-201601	WT	G			1/13/16	1400		11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	X	N	
9	~~ITMW-13-201601~~	WT	G			1/13/16	1130		11	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	N	
10	ITMW-11-201601	WT	G			1/13/16	1530		11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	X	N	
11	ITMW-12-201601	WT	G			1/13/16	1340		11	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	N	
12	ITMW-15-201601	WT	G			1/13/16	0930		11	X	X	X		X				X	X	X	X	X	X	X	X	X	X	X	N	

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)
Level IV data package required	Victoria Siegler	1/13/16	1815		1/14	1400	1.2	Y	Y	Y
	Ramboll Environ						3.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Victoria Siegler

SIGNATURE of SAMPLER: Victoria Siegler DATE Signed (MM/DD/YY): 1/13/16

*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-Feb-2007

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Environ	Report To:	Wendy Stonestreet	Attention:	Tammy Gleason
Address:	7500 College Blvd., Ste. 925	Copy To:	Tammy Gleason	Company Name:	Environ
	Overland Park, KS 66210			Address:	250 Monroe Ave. NW Grand Rapids
Email To:	wstonestreet@environcorp.com	Purchase Order No.:	NA	Pace Quote Reference:	Michigan, 49503
Phone:	913-553-5926 Fax:	Project Name:	Fort Smith, AR	Pace Project Manager:	Colleen Clyne
Requested Due Date/TAT:		Project Number:		Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

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+Zn Acetate	$Na_2S_2O_3$	Methanol	Other Ascorbic Acid	Analysis Test Y/N	B260 VOCs	Alkalinity	TOC	Chloride, Sulfate	B015 Chloroethanol (Pace Dallas)	B010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ITMW-21-201601	WT	G	BP3Z	(3)DG9H	1/13/16	0906		11	X	X	X	+	X					+	+	+	+	+	+	+	+	X	+	N	(3)DG9H 003
2	ITMW-7-201601	WT	G			1/13/16	1412		11	X	X	X	+	X					+	+	+	+	+	+	+	+	X	+	N	004
3	MW-182-201601	WT	G			1/13/16	1420		11	X	X	X	+	X					+	+	+	+	+	+	+	+	X	+	N	005
4	ITMW-10-201601	WT	G			1/13/16	1626		11	X	X	X	+	X					+	+	+	+	+	+	+	+	X	+	N	006
5	ITMW-18-201601	WT	G			1/13/16	0925		11	X	X	X		X			X		+	+	+	+	+	+	+	+	X	+	N	7day hold (3)OTHR 007
6	ITMW-19-201601	WT	G			1/13/16	1450		11	X	X	X		X			+		+	+	+	+	+	+	+	+	X	+	N	7day hold 008
7	ITMW-9-201601	WT	G			1/13/16	1145		11	X	X	X	+	X					+	+	+	+	+	+	+	+	X		N	(3)DG9H 009
8	MW-91-201601	WT	G			1/13/16	1630		11	X	X	X	X	X					+	+	+	+	+	+	+	+	X	+	N	010
9	MW-85-201601	WT	G			1/13/16	1120		4	X	X	X		X				+	X	X	X	X	X	X	X	X	X	X	N	7day hold (3)OTHR 011
10	MW-25-201601	WT	G			1/13/16	1350		11	X	X	X		X				+	X	X	X	X	X	X	X	X	X	X	N	7day hold 012
11	MW-82-201601	WT	G			1/13/16	1545		11	X	X	X		X				+	+	+	+	+	+	+	+	+	+	+	N	7day hold 013
12	~~MW~~ ITMW-17-201601	WT	G			1/13/16	1315		11	X	X	X	X	X					+	+	+	+	+	+	+	+	X	+	N	(3)DG9H 014

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)
Level IV data package required	Victoria Siegler / Kimball Environ	1/13/16	1815		1/14	1400	4.2	Y	Y	Y
							5.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Victoria Siegler

SIGNATURE of SAMPLER: Victoria Siegler — DATE Signed (MM/DD/YY): 1/13/16

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

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Address:	7500 College Blvd., Ste. 925	Copy To:	Tammy Gleason	Company Name:	Environ
	Overland Park, KS 66210			Address:	250 Monroe Ave. NW Grand Rapids
Email To:	wstonestreet@environcorp.com	Purchase Order No.:	NA	Pace Quote Reference:	Michigan, 49503
Phone:	913-553-5926 Fax:	Project Name:	Fort Smith, AR	Pace Project Manager:	Colleen Clyne
Requested Due Date/TAT:		Project Number:		Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Requested Analysis Filtered (Y/N)

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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 + Zn Acetate	$Na_2S_2O_3$	Methanol	Other Ascorbic Acid	Analysis Test Y/N	8260 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	HHMW-17-201601 VS	WT	G			4/13/16			11	X	X	X		X																-
2	MW-172-201601 BTEX ALKS RISS DISW	WT	G	0952	(3) DCAH	4/13/16	1500		11	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	N	(3) HCAH	025
3	HMW-116-201601	WT	G	↓	↓	4/13/16	0920		11	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X		↓	026
4	MW-29-201601	WT	G	↓	↓	4/13/16	0920		11	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X			027
5	MW-44-201601 VS	WT	G			4/13/16																								-
6	Dup-09-201601	WT	G			4/13/16	0850		3				X					X												028
7	Dup-02-201601	WT	G			4/13/16	~~0930~~ 1200		3				X					X												029
8	Dup-04-201601	WT	G			4/13/16	1145		3				X					X												030
9	Dup-03-201601	WT	G			4/13/16	1530		3				X				X	X												7day hold (3) OTHR 031
10	EB-05-201601	WT	G			4/13/16	1645		3				X					X												032
11	EB-06-201601	WT	G			4/13/16	1650		3				X					X												033
12	Dup-01-201601	WT	G			4/13/16	1626		3				X					X												034

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Victoria Stephen / Ramboll Environ	4/13/16	1815		1/14	1400	3.0	Y	Y	Y
							3.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Victoria Stephen

SIGNATURE of SAMPLER: Victoria Stephen DATE Signed (MM/DD/YY): 1/13/16

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

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Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	

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Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

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

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WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TB-19-201601					1/13/16	—		2				X						X												(2)DG4A TB 005
2	TB-15-201601					1/13/16	—		2				X						X												006
3	TB-16-201601					1/13/16	—		2				X						X												007
4	TB-17-201601					1/13/16	—		2				X						X												008
5	TB-18-201601					1/13/16	—		2				X						X												009
6	Dup-08-201601					1/13/16	1630		3				X						X												(3)DG4A 010
7	TB-20-201601					1/13/16	—		2				X						X												(2)DG4A TB 011
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Victoria Stephen / Pemball Environ	1/13/16	1815	[signature] Pa	1/14	1410	4.2	Y	X	Y

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Victoria Stephen

SIGNATURE of SAMPLER: Victoria Stephen

DATE Signed (MM/DD/YY): 1/13/2016

*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.

Chain of Custody

WO# : 7537546

7537546

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www.pacelabs.com

Workorder: 60211236 **Workorder Name:** FORT SMITH, AR **Owner Received Date:** 1/14/2016 **Results Requested By:** 1/26/2016

Report To	Subcontract To
Colleen Clyne Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Dallas 400 West Bethany Drive Suite 190 Allen, TX 75013 Phone (972)727-1123

						Preserved Containers						Requested Analysis												
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	BP3S	DG9U					Total Phosphate & 8015 Chloroethanol												LAB USE ONLY
1	MW-87-201601	PS	1/13/2016 08:50	60211236001	Water	1	3					X												001
2	MW-93-201601	PS	1/13/2016 14:23	60211236002	Water	1	3					X												002
3	MW-94-201601	PS	1/13/2016 11:02	60211236003	Water	1	3					X												003
4	MW-95-201601	PS	1/13/2016 13:06	60211236004	Water	1	3					X												004
5	MW-26-201601	PS	1/13/2016 11:10	60211236005	Water	1	3					X												005
6	ITMW-1-201601	PS	1/13/2016 16:30	60211236006	Water	1	3					X												006
7	MW-38-201601	PS	1/13/2016 15:00	60211236007	Water	1	3					X												007
8	MW-92-201601	PS	1/13/2016 14:00	60211236008	Water	1	3					X												008
9	ITMW-13-201601	PS	1/13/2016 11:30	60211236009	Water	1	3					X												009
10	ITMW-11-201601	PS	1/13/2016 15:30	60211236010	Water	1	3					X												010
11	ITMW-12-201601	PS	1/13/2016 13:40	60211236011	Water	1	3					X												011
12	ITMW-15-201601	PS	1/13/2016 09:30	60211236012	Water	1	3					X												012
13	ITMW-21-201601	PS	1/13/2016 09:06	60211236013	Water	1	3					X												013
14	ITMW-7-201601	PS	1/13/2016 11:42	60211236014	Water	1	3					X												014
15	MW-182-201601	PS	1/13/2016 14:20	60211236015	Water	1	3					X												015
16	ITMW-10-201601	PS	1/13/2016 16:26	60211236016	Water	1	3					X												016
17	ITMW-18-201601	PS	1/13/2016 09:25	60211236017	Water	1	3					X												017
18	ITMW-19-201601	PS	1/13/2016 14:50	60211236018	Water	1	3					X												018
19	ITMW-9-201601	PS	1/13/2016 11:45	60211236019	Water	1	3					X												019

Page 15 of 16

Chain of Custody

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Workorder: 60211236 **Workorder Name:** FORT SMITH, AR **Owner Received Date:** 1/14/2016 **Results Requested By:** 1/26/2016

Report To	Subcontract To
Colleen Clyne Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Dallas 400 West Bethany Drive Suite 190 Allen, TX 75013 Phone (972)727-1123

						Preserved Containers						Requested Analysis												
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	BP3S	DG9U					Total Phosphate & 8015 Chloroethanol												LAB USE ONLY
20	MW-91-201601	PS	1/13/2016 16:30	60211236020	Water	1	3					X												020
21	MW-85-201601	PS	1/13/2016 11:20	60211236021	Water	1	3					X												021
22	MW-25-201601	PS	1/13/2016 13:50	60211236022	Water	1	3					X												022
23	MW-86-201601	PS	1/13/2016 15:45	60211236023	Water	1	3					X												023
24	ITMW-17-201601	PS	1/13/2016 13:15	60211236024	Water	1	3					X												024
25	MW-172-201601	PS	1/13/2016 15:00	60211236025	Water	1	3					X												025
26	ITMW-16-201601	PS	1/13/2016 09:20	60211236026	Water	1	3					X												026
27	MW-29-201601	PS	1/13/2016 09:20	60211236027	Water	1	3					X												027

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	1/15/16 1600	Shaundra Jenkins	1/16/16 09:07
2				
3				

Comments

Cooler Temperature on Receipt 2.0 °C **Custody Seal** Y or N **Received on Ice** Y or **Samples Intact** Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Page 53 of 58

Pace Analytical

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐San Angelo

Client Name: Pace - Kansas Project Work order: 7537546

Courier: FedEX ☒ UPS ☐ USPS ☐ Client ☐ Courier ☐ LSO ☐ PACE ☐ Other:_____

Tracking#: 6508 8116 3 7559

Custody Seal on Cooler/Box: Yes ☐ No ☒ **Seals Intact:** Yes ☐ No ☐ NA ☒

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☒ None ☐ Other ☐

Thermometer Used: IR-01 Type of Ice: Wet ☒ Blue ☐ None ☐ Sample Received on ice, cooling process has begun ☒

Cooler Temp: 2.6 (Temp should be above freezing to 6°C)

Chain of Custody Present	Yes ☒ No ☐ NA ☐	1
Chain of Custody filled out	Yes ☒ No ☐ NA ☐	2
Chain of Custody relinquished	Yes ☒ No ☐ NA ☐	3
Sampler name & signature on COC	Yes ☐ No ☒ NA ☐	4
Sample received within HT	Yes ☒ No ☐ NA ☐	5
Short HT analyses (<72 hrs)	Yes ☐ No ☒ NA ☐	6
Rush TAT requested	Yes ☐ No ☒ NA ☐	7
Sufficient Volume received	Yes ☒ No ☐ NA ☐	8
Correct Container used Pace Container used	Yes ☒ No ☐ NA ☐ Yes ☒ No ☐ NA ☐	9
Container Intact	Yes ☐ No ☒ NA ☐	10 Samples 11 & 12 had 1 vial each broken in transit.
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☒	11
Filtered volume received for Dissolved tests	Yes ☐ No ☐ NA ☒	12
Sample labels match COC Include date/time/ID/analyses Matrix: WATER	Yes ☒ No ☐ NA ☐	13
All containers needing preservation have been checked	Yes ☐ No ☐ NA ☐	14a. Lot# of pH strip:_____ pH checked Yes ☐ No ☐ pH<2 ☐ pH>9 ☐ pH>12 ☐ Lot# of Iodine strip:_____ Lot# of Lead Acetate strip:_____
Do containers require preservation at the lab	Yes ☐ No ☒ NA ☐	14b. Preservation: / Lot#:
All containers needing preservation are found to be in Compliance with EPA recommendation **Exception;** VOA, coliform, O&G	Yes ☒ No ☐ NA ☐ Yes ☐ No ☒	14c.
Are soil samples (volatiles) received in	Bulk ☐ Terracore ☐ EnCore ☐ NA ☒	15.
Trip Blank present Trip Blank Custody Seals Intact Pace Trip Blank Lot# (if purchased):_____	Yes ☐ No ☐ NA ☒ Yes ☐ No ☐ NA ☒	16.
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☒	17.
Project sampled in USDA Regulated Area:	Yes ☐ No ☐ NA ☒	18. List State_____

Client Notification/Resolution/Comments:

Person Contacted:_____ Date:_____

Comments/Resolution:_____

Person Examining Contents: _____ Date: 1/19/16

Pace Analytical Services - Dallas

Sample Container Count-

COC PAGE 1 of 3

COC ID# _____

Pace Project # 75375460

Sample Line Item	AG1S	AG1U	AG3S	BG1S	BP1U	BP2N	BP2S	BP2U	BP20	SP5T	VG9H	DG9M	VG9U	VG9W	WGFU	WGKU	BP3C	GN	WG2U	BP3S				
1														3						1				
2														3						1				
3														3						1				
4														3						1				
5														3						1				
6														3						1				
7														3						1				
8														3						1				
9														3						1				
10														3						1				
11														3						1				
12														3						1				

Container Codes

AF	Air Filter	BP1A	1 liter NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic	R	terra core kit
AG1H	1L HCL Amber Glass	BP1N	1 liter HNO3 plastic	BP3U	250mL unpreserved plastic	SP5T	120mL Coliform Na Thiosulfate
AG1S	1L H2SO4 Amber Glass	BP1S	1 liter H2SO4 plastic	BP3Z	250mL NaOH, Zn Ac plastic	SP5U	120mL Coliform unpreserved
AG1T	1L Sodium Thiosulfate Amber	BP1U	1 liter unpreserved plastic	C	Air Cassettes	VG9H	40mL HCL clear vial
AG1U	1L Unpreserved Amber Glass	BP1Z	1 liter NaOH, Zn, Ac	DG9B	40mL Na Bisulfate amber vial	VG9T	40mL Na Thio. clear vial
AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plasti	DG9H	40mL HCL amber voa vial	VG9U	40mL unpreserved clear vial
AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	DG9M	40mL MeOH clear vial	VG9W	40mL Unpreserved Tared
AG2U	500mL unpreserved amber glas	BP2O	500mL NaOH plastic	DG9P	40mL TSP amber vial	VSG	Headspace septa vial & HCL
AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	DG9S	40mL H2SO4 amber vial	WGFU	4oz clear soil jar
AG3U	250mL unpreserved amber glas	BP2U	500mL unpreserved plastic	DG9T	40mL Na Thio amber vial	WGFX	4oz wide jar w/hexane wipe
BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac	DG9U	40mL unpreserved amber vial	WGKU	8oz wide jar upreserved
BG1S	1 liter H2SO4 clear glass	BP3A	250mL NaOh, Asc Acid plastic	GN	General unpreserved	WG2U	2oz clear jar
BG1T	1 liter Na Thiosulfate clear gla	BP3C	250mL NaOH plastic	I	Wipe/Swab	ZPLC	Ziploc Bag
BG1U	1 liter unpreserved glass	BP3N	250mL HNO3 plastic	JGFU	4oz unpreserved amber wide	Other	Other

Pace Analytical Services - Dallas

Sample Container Count-

COC PAGE 2 of ~~2~~ 3

COC ID# _____

Pace Project # 7537546

Sample Line Item	AG1S	AG1U	AG3S	BG1S	BP1U	BP2N	BP2S	BP2U	BP20	SP5T	VG9H	DG9M	VG9U	VG9W	WGFU	WGKU	BP3C	GN	WG2U	BP3S				
1													3							1				
2													3							1				
3													3							1				
4													3							1				
5													3							1				
6													3							1				
7													3							1				
8													3							1				
9													3							1				
10													3							1				
11													3							1				
12													3							1				

Container Codes

AF	Air Filter	BP1A	1 liter NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic	R	terra core kit
AG1H	1L HCL Amber Glass	BP1N	1 liter HNO3 plastic	BP3U	250mL unpreserved plastic	SP5T	120mL Coliform Na Thiosulfate
AG1S	1L H2SO4 Amber Glass	BP1S	1 liter H2SO4 plastic	BP3Z	250mL NaOH, Zn Ac plastic	SP5U	120mL Coliform unpreserved
AG1T	1L Sodium Thiosulfate Amber	BP1U	1 liter unpreserved plastic	C	Air Cassettes	VG9H	40mL HCL clear vial
AG1U	1L Unpreserved Amber Glass	BP1Z	1 liter NaOH, Zn, Ac	DG9B	40mL Na Bisulfate amber vial	VG9T	40mL Na Thio. clear vial
AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plasti	DG9H	40mL HCL amber voa vial	VG9U	40mL unpreserved clear vial
AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	DG9M	40mL MeOH clear vial	VG9W	40mL Unpreserved Tared
AG2U	500mL unpreserved amber glas	BP2O	500mL NaOH plastic	DG9P	40mL TSP amber vial	VSG	Headspace septa vial & HCL
AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	DG9S	40mL H2SO4 amber vial	WGFU	4oz clear soil jar
AG3U	250mL unpreserved amber glas	BP2U	500mL unpreserved plastic	DG9T	40mL Na Thio amber vial	WGFX	4oz wide jar w/hexane wipe
BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac	DG9U	40mL unpreserved amber vial	WGKU	8oz wide jar upreserved
BG1S	1 liter H2SO4 clear glass	BP3A	250mL NaOh, Asc Acid plastic	GN	General unpreserved	WG2U	2oz clear jar
BG1T	1 liter Na Thiosulfate clear gla	BP3C	250mL NaOH plastic	I	Wipe/Swab	ZPLC	Ziploc Bag
BG1U	1 liter unpreserved glass	BP3N	250mL HNO3 plastic	JGFU	4oz unpreserved amber wide	Other	Other

Pace Analytical Services - Dallas

Sample Container Count-

COC PAGE 3 of 3

COC ID# _____

Pace Project # 75375460

Sample Line Item	AG1S	AG1U	AG3S	BG1S	BP1U	BP2N	BP2S	BP2U	BP20	SP5T	VG9H	DG9M	VG9U	VG9W	WGFU	WGKU	BP3C	GN	WG2U	BP3S				
1													3							1				
2													3							1				
3													3							1				
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Container Codes

AF	Air Filter	BP1A	1 liter NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic	R	terra core kit
AG1H	1L HCL Amber Glass	BP1N	1 liter HNO3 plastic	BP3U	250mL unpreserved plastic	SP5T	120mL Coliform Na Thiosulfate
AG1S	1L H2SO4 Amber Glass	BP1S	1 liter H2SO4 plastic	BP3Z	250mL NaOH, Zn Ac plastic	SP5U	120mL Coliform unpreserved
AG1T	1L Sodium Thiosulfate Amber	BP1U	1 liter unpreserved plastic	C	Air Cassettes	VG9H	40mL HCL clear vial
AG1U	1L Unpreserved Amber Glass	BP1Z	1 liter NaOH, Zn, Ac	DG9B	40mL Na Bisulfate amber vial	VG9T	40mL Na Thio. clear vial
AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plasti	DG9H	40mL HCL amber voa vial	VG9U	40mL unpreserved clear vial
AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	DG9M	40mL MeOH clear vial	VG9W	40mL Unpreserved Tared
AG2U	500mL unpreserved amber glas	BP2O	500mL NaOH plastic	DG9P	40mL TSP amber vial	VSG	Headspace septa vial & HCL
AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	DG9S	40mL H2SO4 amber vial	WGFU	4oz clear soil jar
AG3U	250mL unpreserved amber glas	BP2U	500mL unpreserved plastic	DG9T	40mL Na Thio amber vial	WGFX	4oz wide jar w/hexane wipe
BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac	DG9U	40mL unpreserved amber vial	WGKU	8oz wide jar upreserved
BG1S	1 liter H2SO4 clear glass	BP3A	250mL NaOh, Asc Acid plastic	GN	General unpreserved	WG2U	2oz clear jar
BG1T	1 liter Na Thiosulfate clear gla	BP3C	250mL NaOH plastic	I	Wipe/Swab	ZPLC	Ziploc Bag
BG1U	1 liter unpreserved glass	BP3N	250mL HNO3 plastic	JGFU	4oz unpreserved amber wide	Other	Other

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 26, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH AR
Pace Project No.: 60211266

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 14, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH AR
Pace Project No.: 60211266

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

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SAMPLE SUMMARY

Project: FORT SMITH AR
Pace Project No.: 60211266

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60211266001	**MW-174-201601**	Water	01/12/16 10:00	01/14/16 14:00
60211266002	**MW-173-201601**	Water	01/12/16 11:10	01/14/16 14:00
60211266003	**VP-06-201601**	Water	01/12/16 11:30	01/14/16 14:00
60211266004	**VP-05-201601**	Water	01/12/16 11:45	01/14/16 14:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211266

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60211266001	**MW-174-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211266002	**MW-173-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211266003	**VP-06-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211266004	**VP-05-201601**	EPA 5030B/8260	PGH	38	PASI-K

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211266

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 26, 2016

General Information:
4 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/73774

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1697881)
  - Acetone

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73774

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73785

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211266

Sample: MW-174-201601 **Lab ID: 60211266001** Collected: 01/12/16 10:00 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/16/16 01:01	67-64-1	L3
Benzene	**0.13J**	ug/L	1.0	0.060	1		01/16/16 01:01	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 01:01	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 01:01	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/16/16 01:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/16/16 01:01	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/16/16 01:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 01:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 01:01	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/16/16 01:01	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/16/16 01:01	67-66-3	
Chloromethane	**0.16J**	ug/L	1.0	0.080	1		01/16/16 01:01	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 01:01	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/16/16 01:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 01:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 01:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/16/16 01:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 01:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 01:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 01:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 01:01	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 01:01	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/16/16 01:01	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/16/16 01:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/16/16 01:01	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 01:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 01:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/16/16 01:01	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/16/16 01:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 01:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 01:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/16/16 01:01	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/16/16 01:01	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 01:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/16/16 01:01	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/16/16 01:01	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		01/16/16 01:01	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 01:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211266

Sample: MW-173-201601 **Lab ID: 60211266002** Collected: 01/12/16 11:10 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**81.4**	ug/L	10.0	1.9	1		01/19/16 14:50	67-64-1	
Benzene	**0.89J**	ug/L	1.0	0.060	1		01/16/16 01:16	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 01:16	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 01:16	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/16/16 01:16	74-83-9	
2-Butanone (MEK)	**21.2**	ug/L	10.0	0.59	1		01/16/16 01:16	78-93-3	
Carbon disulfide	**2.0J**	ug/L	5.0	0.12	1		01/16/16 01:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 01:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 01:16	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/16/16 01:16	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/16/16 01:16	67-66-3	
Chloromethane	**0.63J**	ug/L	1.0	0.080	1		01/16/16 01:16	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 01:16	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/16/16 01:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 01:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 01:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/16/16 01:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 01:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 01:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 01:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 01:16	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 01:16	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/16/16 01:16	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/16/16 01:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.99J**	ug/L	10.0	0.42	1		01/16/16 01:16	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 01:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 01:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/16/16 01:16	127-18-4	
Toluene	**0.27J**	ug/L	1.0	0.17	1		01/16/16 01:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 01:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 01:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/16/16 01:16	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/16/16 01:16	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 01:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/16/16 01:16	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		01/16/16 01:16	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		01/16/16 01:16	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 01:16		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211266

Sample: VP-06-201601 **Lab ID: 60211266003** Collected: 01/12/16 11:30 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**49.0**	ug/L	10.0	1.9	1		01/19/16 15:05	67-64-1	
Benzene	**0.72J**	ug/L	1.0	0.060	1		01/16/16 01:30	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 01:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 01:30	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/16/16 01:30	74-83-9	
2-Butanone (MEK)	**6.2J**	ug/L	10.0	0.59	1		01/16/16 01:30	78-93-3	
Carbon disulfide	**0.75J**	ug/L	5.0	0.12	1		01/16/16 01:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 01:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 01:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/16/16 01:30	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/16/16 01:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/16/16 01:30	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 01:30	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/16/16 01:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 01:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 01:30	75-35-4	
cis-1,2-Dichloroethene	**0.20J**	ug/L	1.0	0.080	1		01/16/16 01:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 01:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 01:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 01:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 01:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 01:30	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/16/16 01:30	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/16/16 01:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.53J**	ug/L	10.0	0.42	1		01/16/16 01:30	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 01:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 01:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/16/16 01:30	127-18-4	
Toluene	**0.23J**	ug/L	1.0	0.17	1		01/16/16 01:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 01:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 01:30	79-00-5	
Trichloroethene	**1.3**	ug/L	1.0	0.17	1		01/16/16 01:30	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/16/16 01:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 01:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/16/16 01:30	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		01/16/16 01:30	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		01/16/16 01:30	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 01:30		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211266

Sample: VP-05-201601 **Lab ID: 60211266004** Collected: 01/12/16 11:45 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**158**	ug/L	10.0	1.9	1		01/19/16 15:20	67-64-1	
Benzene	**0.90J**	ug/L	1.0	0.060	1		01/16/16 01:45	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 01:45	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 01:45	75-25-2	
Bromomethane	**4.9J**	ug/L	5.0	0.16	1		01/16/16 01:45	74-83-9	
2-Butanone (MEK)	**31.4**	ug/L	10.0	0.59	1		01/16/16 01:45	78-93-3	
Carbon disulfide	**0.22J**	ug/L	5.0	0.12	1		01/16/16 01:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 01:45	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 01:45	108-90-7	
Chloroethane	**2.7**	ug/L	1.0	0.15	1		01/16/16 01:45	75-00-3	
Chloroform	**0.35J**	ug/L	1.0	0.14	1		01/16/16 01:45	67-66-3	
Chloromethane	**2.8**	ug/L	1.0	0.080	1		01/16/16 01:45	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 01:45	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/16/16 01:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 01:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 01:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/16/16 01:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 01:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 01:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 01:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 01:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 01:45	100-41-4	
2-Hexanone	**11.6**	ug/L	10.0	1.2	1		01/16/16 01:45	591-78-6	
Methylene chloride	**0.76J**	ug/L	1.0	0.15	1		01/16/16 01:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3.4J**	ug/L	10.0	0.42	1		01/16/16 01:45	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 01:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 01:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/16/16 01:45	127-18-4	
Toluene	**0.46J**	ug/L	1.0	0.17	1		01/16/16 01:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 01:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 01:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/16/16 01:45	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/16/16 01:45	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 01:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/16/16 01:45	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		01/16/16 01:45	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		01/16/16 01:45	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 01:45		

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211266

QC Batch: MSV/73774 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211266001, 60211266002, 60211266003, 60211266004

METHOD BLANK: 1697880 Matrix: Water
Associated Lab Samples: 60211266001, 60211266002, 60211266003, 60211266004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/15/16 22:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/15/16 22:22	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/15/16 22:22	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/15/16 22:22	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 22:22	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/15/16 22:22	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/15/16 22:22	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/15/16 22:22	
2-Hexanone	ug/L	ND	10.0	1.2	01/15/16 22:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/15/16 22:22	
Acetone	ug/L	ND	10.0	1.9	01/15/16 22:22	
Benzene	ug/L	ND	1.0	0.060	01/15/16 22:22	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/15/16 22:22	
Bromoform	ug/L	ND	1.0	0.070	01/15/16 22:22	
Bromomethane	ug/L	ND	5.0	0.16	01/15/16 22:22	
Carbon disulfide	ug/L	ND	5.0	0.12	01/15/16 22:22	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/15/16 22:22	
Chlorobenzene	ug/L	ND	1.0	0.21	01/15/16 22:22	
Chloroethane	ug/L	ND	1.0	0.15	01/15/16 22:22	
Chloroform	ug/L	ND	1.0	0.14	01/15/16 22:22	
Chloromethane	ug/L	ND	1.0	0.080	01/15/16 22:22	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/15/16 22:22	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/15/16 22:22	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/15/16 22:22	
Ethylbenzene	ug/L	ND	1.0	0.18	01/15/16 22:22	
Methylene chloride	ug/L	ND	1.0	0.15	01/15/16 22:22	
Styrene	ug/L	ND	1.0	0.12	01/15/16 22:22	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/15/16 22:22	
Toluene	ug/L	ND	1.0	0.17	01/15/16 22:22	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 22:22	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/15/16 22:22	
Trichloroethene	ug/L	ND	1.0	0.17	01/15/16 22:22	
Vinyl chloride	ug/L	ND	1.0	0.13	01/15/16 22:22	
Xylene (Total)	ug/L	ND	3.0	0.42	01/15/16 22:22	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/15/16 22:22	
4-Bromofluorobenzene (S)	%	102	80-120		01/15/16 22:22	
Toluene-d8 (S)	%	100	80-120		01/15/16 22:22	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211266

LABORATORY CONTROL SAMPLE: 1697881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.0	95	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	18.7	93	73-121	
1,1,2-Trichloroethane	ug/L	20	18.0	90	80-120	
1,1-Dichloroethane	ug/L	20	20.7	104	80-120	
1,1-Dichloroethene	ug/L	20	16.7	83	80-120	
1,2-Dichloroethane	ug/L	20	20.1	101	81-120	
1,2-Dichloropropane	ug/L	20	19.3	97	80-120	
2-Butanone (MEK)	ug/L	100	115	115	67-122	
2-Hexanone	ug/L	100	107	107	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	76-120	
Acetone	ug/L	100	128	128	72-120	L0
Benzene	ug/L	20	20.4	102	80-120	
Bromodichloromethane	ug/L	20	19.0	95	80-120	
Bromoform	ug/L	20	17.1	85	73-138	
Bromomethane	ug/L	20	27.2	136	38-137	
Carbon disulfide	ug/L	20	19.2	96	71-129	
Carbon tetrachloride	ug/L	20	18.5	93	67-146	
Chlorobenzene	ug/L	20	19.6	98	80-120	
Chloroethane	ug/L	20	19.8	99	76-120	
Chloroform	ug/L	20	18.0	90	80-120	
Chloromethane	ug/L	20	24.1	121	34-165	
cis-1,2-Dichloroethene	ug/L	20	19.1	96	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.1	100	80-120	
Dibromochloromethane	ug/L	20	18.3	92	80-126	
Ethylbenzene	ug/L	20	20.5	102	80-120	
Methylene chloride	ug/L	20	18.7	94	80-120	
Styrene	ug/L	20	21.4	107	80-123	
Tetrachloroethene	ug/L	20	17.8	89	80-123	
Toluene	ug/L	20	20.3	101	80-120	
trans-1,2-Dichloroethene	ug/L	20	16.6	83	80-120	
trans-1,3-Dichloropropene	ug/L	20	19.4	97	80-129	
Trichloroethene	ug/L	20	18.6	93	80-120	
Vinyl chloride	ug/L	20	22.4	112	62-125	
Xylene (Total)	ug/L	60	62.3	104	80-120	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			98	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211266

QC Batch: MSV/73785 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211266002, 60211266003, 60211266004

METHOD BLANK: 1698841 Matrix: Water
Associated Lab Samples: 60211266002, 60211266003, 60211266004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	10.0	1.9	01/19/16 12:11	
1,2-Dichloroethane-d4 (S)	%	101	81-127		01/19/16 12:11	
4-Bromofluorobenzene (S)	%	99	77-130		01/19/16 12:11	
Toluene-d8 (S)	%	98	80-120		01/19/16 12:11	

LABORATORY CONTROL SAMPLE: 1698842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	100	119	119	56-142	
1,2-Dichloroethane-d4 (S)	%			101	81-127	
4-Bromofluorobenzene (S)	%			99	77-130	
Toluene-d8 (S)	%			101	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALIFIERS

Project: FORT SMITH AR
Pace Project No.: 60211266

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73774

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/73785

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211266

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211266001	**MW-174-201601**	EPA 5030B/8260	MSV/73774		
60211266002	**MW-173-201601**	EPA 5030B/8260	MSV/73774		
60211266002	**MW-173-201601**	EPA 5030B/8260	MSV/73785		
60211266003	**VP-06-201601**	EPA 5030B/8260	MSV/73774		
60211266003	**VP-06-201601**	EPA 5030B/8260	MSV/73785		
60211266004	**VP-05-201601**	EPA 5030B/8260	MSV/73774		
60211266004	**VP-05-201601**	EPA 5030B/8260	MSV/73785		

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Sample Condition Upon Receipt

WO# : 60211266

60211266

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☒ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☒ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 1.8

Date and initials of person examining contents: JB 1/14

Temperature should be above freezing to 6°C

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 holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<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	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC:	☒Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☒Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	~~☐Yes~~ JB 1/14 ☒No ☐N/A	
Pace Trip Blank lot # (if purchased): _____		15.
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☒N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: G Date: 1/15/14

F-KS-C-003-Rev.9, 30June2015

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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 1

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tamara Gleason
	tgleason@environcorp.com
Purchase Order No.:	
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tamara Gleason
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJ Walls
Pace Profile #:	7444 water, 7709 soil

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): 8260 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-174-201601	WT	G	1/12/16	1000				3				X					Y	X	N	(3) 60211266 a1
2	MW-173-201601	WT	G	1/12/16	1110				3				X					Y	X	N	a2
3	VP-06-201601	WT	G	1/12/16	1130				3				X					Y	X	N	a3
4	VP-05-201601	WT	G	1/12/16	1145				3				X					Y	X	N	a4
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)
	Wendy Stonestreet	1/13/16	1815		1/14	1400	1.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*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-Feb-2007

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January 26, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH AR
Pace Project No.: 60211267

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 14, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH AR
Pace Project No.: 60211267

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

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SAMPLE SUMMARY

Project: FORT SMITH AR
Pace Project No.: 60211267

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60211267001	**MW-176-201601**	Water	01/12/16 13:35	01/14/16 14:00
60211267002	**VP-10-201601**	Water	01/12/16 13:51	01/14/16 14:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211267

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60211267001	**MW-176-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211267002	**VP-10-201601**	EPA 5030B/8260	PGH	38	PASI-K

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211267

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 26, 2016

General Information:
2 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: MSV/73785

B: Analyte was detected in the associated method blank.
- BLANK for HBN 416091 [MSV/7378 (Lab ID: 1698841)
  - Carbon disulfide

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/73774

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 1697881)
  - Acetone

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73774

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73785

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73827

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211267

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 26, 2016

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211267

Sample: MW-176-201601 **Lab ID: 60211267001** Collected: 01/12/16 13:35 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/16/16 03:12	67-64-1	L3
Benzene	**0.11J**	ug/L	1.0	0.060	1		01/16/16 03:12	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 03:12	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 03:12	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/16/16 03:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/16/16 03:12	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/16/16 03:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 03:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 03:12	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/16/16 03:12	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/16/16 03:12	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/16/16 03:12	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 03:12	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/16/16 03:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 03:12	107-06-2	
1,1-Dichloroethene	**4.7**	ug/L	1.0	0.20	1		01/16/16 03:12	75-35-4	
cis-1,2-Dichloroethene	**125**	ug/L	1.0	0.080	1		01/16/16 03:12	156-59-2	
trans-1,2-Dichloroethene	**0.96J**	ug/L	1.0	0.20	1		01/16/16 03:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 03:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 03:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 03:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 03:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/16/16 03:12	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/16/16 03:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/16/16 03:12	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 03:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 03:12	79-34-5	
Tetrachloroethene	**0.17J**	ug/L	1.0	0.10	1		01/16/16 03:12	127-18-4	
Toluene	**0.36J**	ug/L	1.0	0.17	1		01/16/16 03:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 03:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 03:12	79-00-5	
Trichloroethene	**306**	ug/L	10.0	1.7	10		01/19/16 13:23	79-01-6	
Vinyl chloride	**1.3**	ug/L	1.0	0.13	1		01/16/16 03:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 03:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/16/16 03:12	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/16/16 03:12	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/16/16 03:12	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 03:12		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211267

Sample: VP-10-201601 **Lab ID: 60211267002** Collected: 01/12/16 13:51 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**4.1J**	ug/L	10.0	1.9	1		01/19/16 13:09	67-64-1	
Benzene	**0.32J**	ug/L	1.0	0.060	1		01/19/16 13:09	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/19/16 13:09	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/19/16 13:09	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/19/16 13:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/19/16 13:09	78-93-3	
Carbon disulfide	**0.18J**	ug/L	5.0	0.12	1		01/19/16 13:09	75-15-0	B
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/19/16 13:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/19/16 13:09	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/19/16 13:09	75-00-3	
Chloroform	**5.0**	ug/L	1.0	0.14	1		01/19/16 13:09	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/19/16 13:09	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/19/16 13:09	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/19/16 13:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/19/16 13:09	107-06-2	
1,1-Dichloroethene	**1.0**	ug/L	1.0	0.20	1		01/19/16 13:09	75-35-4	
cis-1,2-Dichloroethene	**8.6**	ug/L	1.0	0.080	1		01/19/16 13:09	156-59-2	
trans-1,2-Dichloroethene	**0.26J**	ug/L	1.0	0.20	1		01/19/16 13:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/19/16 13:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/19/16 13:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/19/16 13:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/19/16 13:09	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/19/16 13:09	591-78-6	
Methylene chloride	**0.94J**	ug/L	1.0	0.15	1		01/19/16 13:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/19/16 13:09	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/19/16 13:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/19/16 13:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/19/16 13:09	127-18-4	
Toluene	**0.77J**	ug/L	1.0	0.17	1		01/19/16 13:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/19/16 13:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/19/16 13:09	79-00-5	
Trichloroethene	**823**	ug/L	5.0	0.85	5		01/20/16 16:55	79-01-6	
Vinyl chloride	**0.27J**	ug/L	1.0	0.13	1		01/19/16 13:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/19/16 13:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	77-130		1		01/19/16 13:09	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	81-127		1		01/19/16 13:09	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/19/16 13:09	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/19/16 13:09		

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211267

QC Batch: MSV/73774
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211267001

METHOD BLANK: 1697880
Matrix: Water
Associated Lab Samples: 60211267001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/15/16 22:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/15/16 22:22	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/15/16 22:22	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/15/16 22:22	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 22:22	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/15/16 22:22	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/15/16 22:22	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/15/16 22:22	
2-Hexanone	ug/L	ND	10.0	1.2	01/15/16 22:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/15/16 22:22	
Acetone	ug/L	ND	10.0	1.9	01/15/16 22:22	
Benzene	ug/L	ND	1.0	0.060	01/15/16 22:22	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/15/16 22:22	
Bromoform	ug/L	ND	1.0	0.070	01/15/16 22:22	
Bromomethane	ug/L	ND	5.0	0.16	01/15/16 22:22	
Carbon disulfide	ug/L	ND	5.0	0.12	01/15/16 22:22	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/15/16 22:22	
Chlorobenzene	ug/L	ND	1.0	0.21	01/15/16 22:22	
Chloroethane	ug/L	ND	1.0	0.15	01/15/16 22:22	
Chloroform	ug/L	ND	1.0	0.14	01/15/16 22:22	
Chloromethane	ug/L	ND	1.0	0.080	01/15/16 22:22	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/15/16 22:22	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/15/16 22:22	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/15/16 22:22	
Ethylbenzene	ug/L	ND	1.0	0.18	01/15/16 22:22	
Methylene chloride	ug/L	ND	1.0	0.15	01/15/16 22:22	
Styrene	ug/L	ND	1.0	0.12	01/15/16 22:22	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/15/16 22:22	
Toluene	ug/L	ND	1.0	0.17	01/15/16 22:22	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 22:22	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/15/16 22:22	
Vinyl chloride	ug/L	ND	1.0	0.13	01/15/16 22:22	
Xylene (Total)	ug/L	ND	3.0	0.42	01/15/16 22:22	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/15/16 22:22	
4-Bromofluorobenzene (S)	%	102	80-120		01/15/16 22:22	
Toluene-d8 (S)	%	100	80-120		01/15/16 22:22	

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(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211267

LABORATORY CONTROL SAMPLE: 1697881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.0	95	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	18.7	93	73-121	
1,1,2-Trichloroethane	ug/L	20	18.0	90	80-120	
1,1-Dichloroethane	ug/L	20	20.7	104	80-120	
1,1-Dichloroethene	ug/L	20	16.7	83	80-120	
1,2-Dichloroethane	ug/L	20	20.1	101	81-120	
1,2-Dichloropropane	ug/L	20	19.3	97	80-120	
2-Butanone (MEK)	ug/L	100	115	115	67-122	
2-Hexanone	ug/L	100	107	107	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	76-120	
Acetone	ug/L	100	128	128	72-120	L0
Benzene	ug/L	20	20.4	102	80-120	
Bromodichloromethane	ug/L	20	19.0	95	80-120	
Bromoform	ug/L	20	17.1	85	73-138	
Bromomethane	ug/L	20	27.2	136	38-137	
Carbon disulfide	ug/L	20	19.2	96	71-129	
Carbon tetrachloride	ug/L	20	18.5	93	67-146	
Chlorobenzene	ug/L	20	19.6	98	80-120	
Chloroethane	ug/L	20	19.8	99	76-120	
Chloroform	ug/L	20	18.0	90	80-120	
Chloromethane	ug/L	20	24.1	121	34-165	
cis-1,2-Dichloroethene	ug/L	20	19.1	96	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.1	100	80-120	
Dibromochloromethane	ug/L	20	18.3	92	80-126	
Ethylbenzene	ug/L	20	20.5	102	80-120	
Methylene chloride	ug/L	20	18.7	94	80-120	
Styrene	ug/L	20	21.4	107	80-123	
Tetrachloroethene	ug/L	20	17.8	89	80-123	
Toluene	ug/L	20	20.3	101	80-120	
trans-1,2-Dichloroethene	ug/L	20	16.6	83	80-120	
trans-1,3-Dichloropropene	ug/L	20	19.4	97	80-129	
Vinyl chloride	ug/L	20	22.4	112	62-125	
Xylene (Total)	ug/L	60	62.3	104	80-120	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			98	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211267

QC Batch: MSV/73785 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211267001, 60211267002

METHOD BLANK: 1698841 Matrix: Water
Associated Lab Samples: 60211267001, 60211267002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/19/16 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/19/16 12:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/19/16 12:11	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/19/16 12:11	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/19/16 12:11	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/19/16 12:11	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/19/16 12:11	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/19/16 12:11	
2-Hexanone	ug/L	ND	10.0	1.2	01/19/16 12:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/19/16 12:11	
Acetone	ug/L	ND	10.0	1.9	01/19/16 12:11	
Benzene	ug/L	ND	1.0	0.060	01/19/16 12:11	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/19/16 12:11	
Bromoform	ug/L	ND	1.0	0.070	01/19/16 12:11	
Bromomethane	ug/L	0.29J	5.0	0.16	01/19/16 12:11	
Carbon disulfide	ug/L	0.15J	5.0	0.12	01/19/16 12:11	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/19/16 12:11	
Chlorobenzene	ug/L	ND	1.0	0.21	01/19/16 12:11	
Chloroethane	ug/L	ND	1.0	0.15	01/19/16 12:11	
Chloroform	ug/L	ND	1.0	0.14	01/19/16 12:11	
Chloromethane	ug/L	0.22J	1.0	0.080	01/19/16 12:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/19/16 12:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/19/16 12:11	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/19/16 12:11	
Ethylbenzene	ug/L	ND	1.0	0.18	01/19/16 12:11	
Methylene chloride	ug/L	ND	1.0	0.15	01/19/16 12:11	
Styrene	ug/L	ND	1.0	0.12	01/19/16 12:11	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/19/16 12:11	
Toluene	ug/L	ND	1.0	0.17	01/19/16 12:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/19/16 12:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/19/16 12:11	
Trichloroethene	ug/L	ND	1.0	0.17	01/19/16 12:11	
Vinyl chloride	ug/L	ND	1.0	0.13	01/19/16 12:11	
Xylene (Total)	ug/L	ND	3.0	0.42	01/19/16 12:11	
1,2-Dichloroethane-d4 (S)	%	101	81-127		01/19/16 12:11	
4-Bromofluorobenzene (S)	%	99	77-130		01/19/16 12:11	
Toluene-d8 (S)	%	98	80-120		01/19/16 12:11	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211267

LABORATORY CONTROL SAMPLE: 1698842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	81-116	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	93	72-117	
1,1,2-Trichloroethane	ug/L	20	18.2	91	79-108	
1,1-Dichloroethane	ug/L	20	20.1	100	83-117	
1,1-Dichloroethene	ug/L	20	19.6	98	74-114	
1,2-Dichloroethane	ug/L	20	19.7	99	72-116	
1,2-Dichloropropane	ug/L	20	18.7	94	80-120	
2-Butanone (MEK)	ug/L	100	108	108	67-129	
2-Hexanone	ug/L	100	104	104	70-128	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	80-120	
Acetone	ug/L	100	119	119	56-142	
Benzene	ug/L	20	20.4	102	79-116	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	19.0	95	73-114	
Bromomethane	ug/L	20	17.4	87	49-153	
Carbon disulfide	ug/L	20	20.9	104	82-121	
Carbon tetrachloride	ug/L	20	19.3	97	80-116	
Chlorobenzene	ug/L	20	19.3	97	80-120	
Chloroethane	ug/L	20	21.6	108	67-124	
Chloroform	ug/L	20	18.5	93	79-120	
Chloromethane	ug/L	20	22.2	111	10-192	
cis-1,2-Dichloroethene	ug/L	20	18.7	93	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	80-120	
Dibromochloromethane	ug/L	20	20.1	101	80-120	
Ethylbenzene	ug/L	20	19.5	98	80-120	
Methylene chloride	ug/L	20	21.0	105	80-120	
Styrene	ug/L	20	20.4	102	80-120	
Tetrachloroethene	ug/L	20	19.5	98	80-120	
Toluene	ug/L	20	19.5	98	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	78-108	
trans-1,3-Dichloropropene	ug/L	20	19.7	99	85-120	
Trichloroethene	ug/L	20	18.3	91	76-114	
Vinyl chloride	ug/L	20	22.5	112	69-129	
Xylene (Total)	ug/L	60	59.5	99	80-120	
1,2-Dichloroethane-d4 (S)	%			101	81-127	
4-Bromofluorobenzene (S)	%			99	77-130	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211267

QC Batch: MSV/73827
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211267002

METHOD BLANK: 1699807 Matrix: Water
Associated Lab Samples: 60211267002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	0.17	01/20/16 14:30	
1,2-Dichloroethane-d4 (S)	%	113	81-127		01/20/16 14:30	
4-Bromofluorobenzene (S)	%	100	77-130		01/20/16 14:30	
Toluene-d8 (S)	%	101	80-120		01/20/16 14:30	

LABORATORY CONTROL SAMPLE: 1699808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	20	16.2	81	76-114	
1,2-Dichloroethane-d4 (S)	%			110	81-127	
4-Bromofluorobenzene (S)	%			102	77-130	
Toluene-d8 (S)	%			102	80-120	

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QUALIFIERS

Project: FORT SMITH AR
Pace Project No.: 60211267

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73774

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/73785

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/73827

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211267

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211267001	**MW-176-201601**	EPA 5030B/8260	MSV/73774		
60211267001	**MW-176-201601**	EPA 5030B/8260	MSV/73785		
60211267002	**VP-10-201601**	EPA 5030B/8260	MSV/73785		
60211267002	**VP-10-201601**	EPA 5030B/8260	MSV/73827		

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Sample Condition Upon Receipt

WO# : 60211267

60211267

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☒ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☒ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 1.8

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JB 1/14

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 holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<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	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC:	☒Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☒Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	~~☐Yes~~ ☒No ☐N/A JB 1/14	
Pace Trip Blank lot # (if purchased): _____		15.
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☒N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: G Date: 1/15/14

CHAIN-OF-CUSTODY / Analytical Request Document

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

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Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Ciyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

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 VOCs	Alkalinity	TOC	Chloride, Sulfate	9015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Y/N	N										60211267
1	MW-176-201601	WT	G	1/12/16	1335				3				X						X									N	(3)DGAH 01
2	VP-10-201601	WT	G	1/12/16	1351				3				X						X									N	↓ 02
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Wendy Stonestreet +	1/13/16	1915		1/14	1400	1.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM/DD/YY): 1/13/16

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-Feb-2007

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

January 26, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH AR
Pace Project No.: 60211269

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 14, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH AR
Pace Project No.: 60211269

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

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SAMPLE SUMMARY

Project: FORT SMITH AR
Pace Project No.: 60211269

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60211269001	**MW-179-201601**	Water	01/13/16 09:30	01/14/16 14:00
60211269002	**VP-14-201601**	Water	01/13/16 09:50	01/14/16 14:00

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211269

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60211269001	**MW-179-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211269002	**VP-14-201601**	EPA 5030B/8260	PGH	38	PASI-K

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211269

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 26, 2016

General Information:
2 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: MSV/73785

B: Analyte was detected in the associated method blank.

- BLANK for HBN 416091 [MSV/7378 (Lab ID: 1698841)
  - Carbon disulfide
  - Chloromethane

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73785

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211269

Sample: MW-179-201601 **Lab ID: 60211269001** Collected: 01/13/16 09:30 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**2.7J**	ug/L	10.0	1.9	1		01/19/16 12:40	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/19/16 12:40	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/19/16 12:40	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/19/16 12:40	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/19/16 12:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/19/16 12:40	78-93-3	
Carbon disulfide	**0.14J**	ug/L	5.0	0.12	1		01/19/16 12:40	75-15-0	B
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/19/16 12:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/19/16 12:40	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/19/16 12:40	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/19/16 12:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/19/16 12:40	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/19/16 12:40	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/19/16 12:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/19/16 12:40	107-06-2	
1,1-Dichloroethene	**0.48J**	ug/L	1.0	0.20	1		01/19/16 12:40	75-35-4	
cis-1,2-Dichloroethene	**1.1**	ug/L	1.0	0.080	1		01/19/16 12:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/19/16 12:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/19/16 12:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/19/16 12:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/19/16 12:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/19/16 12:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/19/16 12:40	591-78-6	
Methylene chloride	**0.56J**	ug/L	1.0	0.15	1		01/19/16 12:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/19/16 12:40	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/19/16 12:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/19/16 12:40	79-34-5	
Tetrachloroethene	**1.1**	ug/L	1.0	0.10	1		01/19/16 12:40	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/19/16 12:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/19/16 12:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/19/16 12:40	79-00-5	
Trichloroethene	**30.6**	ug/L	1.0	0.17	1		01/19/16 12:40	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/19/16 12:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/19/16 12:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	77-130		1		01/19/16 12:40	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	81-127		1		01/19/16 12:40	17060-07-0	
Toluene-d8 (S)	104	%	80-120		1		01/19/16 12:40	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/19/16 12:40		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211269

Sample: VP-14-201601 **Lab ID: 60211269002** Collected: 01/13/16 09:50 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**4.3J**	ug/L	10.0	1.9	1		01/19/16 12:54	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/19/16 12:54	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/19/16 12:54	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/19/16 12:54	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/19/16 12:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/19/16 12:54	78-93-3	
Carbon disulfide	**0.58J**	ug/L	5.0	0.12	1		01/19/16 12:54	75-15-0	B
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/19/16 12:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/19/16 12:54	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/19/16 12:54	75-00-3	
Chloroform	**1.1**	ug/L	1.0	0.14	1		01/19/16 12:54	67-66-3	
Chloromethane	**0.75J**	ug/L	1.0	0.080	1		01/19/16 12:54	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/19/16 12:54	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/19/16 12:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/19/16 12:54	107-06-2	
1,1-Dichloroethene	**0.77J**	ug/L	1.0	0.20	1		01/19/16 12:54	75-35-4	
cis-1,2-Dichloroethene	**2.3**	ug/L	1.0	0.080	1		01/19/16 12:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/19/16 12:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/19/16 12:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/19/16 12:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/19/16 12:54	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/19/16 12:54	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/19/16 12:54	591-78-6	
Methylene chloride	**0.77J**	ug/L	1.0	0.15	1		01/19/16 12:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/19/16 12:54	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/19/16 12:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/19/16 12:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/19/16 12:54	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/19/16 12:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/19/16 12:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/19/16 12:54	79-00-5	
Trichloroethene	**65.6**	ug/L	1.0	0.17	1		01/19/16 12:54	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/19/16 12:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/19/16 12:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	77-130		1		01/19/16 12:54	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	81-127		1		01/19/16 12:54	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/19/16 12:54	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/19/16 12:54		

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211269

QC Batch: MSV/73785
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211269001, 60211269002

METHOD BLANK: 1698841
Matrix: Water
Associated Lab Samples: 60211269001, 60211269002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/19/16 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/19/16 12:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/19/16 12:11	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/19/16 12:11	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/19/16 12:11	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/19/16 12:11	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/19/16 12:11	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/19/16 12:11	
2-Hexanone	ug/L	ND	10.0	1.2	01/19/16 12:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/19/16 12:11	
Acetone	ug/L	ND	10.0	1.9	01/19/16 12:11	
Benzene	ug/L	ND	1.0	0.060	01/19/16 12:11	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/19/16 12:11	
Bromoform	ug/L	ND	1.0	0.070	01/19/16 12:11	
Bromomethane	ug/L	0.29J	5.0	0.16	01/19/16 12:11	
Carbon disulfide	ug/L	0.15J	5.0	0.12	01/19/16 12:11	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/19/16 12:11	
Chlorobenzene	ug/L	ND	1.0	0.21	01/19/16 12:11	
Chloroethane	ug/L	ND	1.0	0.15	01/19/16 12:11	
Chloroform	ug/L	ND	1.0	0.14	01/19/16 12:11	
Chloromethane	ug/L	0.22J	1.0	0.080	01/19/16 12:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/19/16 12:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/19/16 12:11	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/19/16 12:11	
Ethylbenzene	ug/L	ND	1.0	0.18	01/19/16 12:11	
Methylene chloride	ug/L	ND	1.0	0.15	01/19/16 12:11	
Styrene	ug/L	ND	1.0	0.12	01/19/16 12:11	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/19/16 12:11	
Toluene	ug/L	ND	1.0	0.17	01/19/16 12:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/19/16 12:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/19/16 12:11	
Trichloroethene	ug/L	ND	1.0	0.17	01/19/16 12:11	
Vinyl chloride	ug/L	ND	1.0	0.13	01/19/16 12:11	
Xylene (Total)	ug/L	ND	3.0	0.42	01/19/16 12:11	
1,2-Dichloroethane-d4 (S)	%	101	81-127		01/19/16 12:11	
4-Bromofluorobenzene (S)	%	99	77-130		01/19/16 12:11	
Toluene-d8 (S)	%	98	80-120		01/19/16 12:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211269

LABORATORY CONTROL SAMPLE: 1698842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	81-116	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	93	72-117	
1,1,2-Trichloroethane	ug/L	20	18.2	91	79-108	
1,1-Dichloroethane	ug/L	20	20.1	100	83-117	
1,1-Dichloroethene	ug/L	20	19.6	98	74-114	
1,2-Dichloroethane	ug/L	20	19.7	99	72-116	
1,2-Dichloropropane	ug/L	20	18.7	94	80-120	
2-Butanone (MEK)	ug/L	100	108	108	67-129	
2-Hexanone	ug/L	100	104	104	70-128	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	80-120	
Acetone	ug/L	100	119	119	56-142	
Benzene	ug/L	20	20.4	102	79-116	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	19.0	95	73-114	
Bromomethane	ug/L	20	17.4	87	49-153	
Carbon disulfide	ug/L	20	20.9	104	82-121	
Carbon tetrachloride	ug/L	20	19.3	97	80-116	
Chlorobenzene	ug/L	20	19.3	97	80-120	
Chloroethane	ug/L	20	21.6	108	67-124	
Chloroform	ug/L	20	18.5	93	79-120	
Chloromethane	ug/L	20	22.2	111	10-192	
cis-1,2-Dichloroethene	ug/L	20	18.7	93	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	80-120	
Dibromochloromethane	ug/L	20	20.1	101	80-120	
Ethylbenzene	ug/L	20	19.5	98	80-120	
Methylene chloride	ug/L	20	21.0	105	80-120	
Styrene	ug/L	20	20.4	102	80-120	
Tetrachloroethene	ug/L	20	19.5	98	80-120	
Toluene	ug/L	20	19.5	98	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	78-108	
trans-1,3-Dichloropropene	ug/L	20	19.7	99	85-120	
Trichloroethene	ug/L	20	18.3	91	76-114	
Vinyl chloride	ug/L	20	22.5	112	69-129	
Xylene (Total)	ug/L	60	59.5	99	80-120	
1,2-Dichloroethane-d4 (S)	%			101	81-127	
4-Bromofluorobenzene (S)	%			99	77-130	
Toluene-d8 (S)	%			101	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH AR
Pace Project No.: 60211269

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73785

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211269

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211269001	**MW-179-201601**	EPA 5030B/8260	MSV/73785		
60211269002	**VP-14-201601**	EPA 5030B/8260	MSV/73785		

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Sample Condition Upon Receipt

WO# : 60211269

60211269

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☒ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☒ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / (CF +0.7 T-262) **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 1.8

Date and initials of person examining contents: JB 1/14

Temperature should be above freezing to 6°C

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 holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<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	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC:	☒Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	14.
Exceptions: (VOA, Coliform, O&G, WI-DRO (water))	☒Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	~~☐Yes~~ ☒No ☐N/A JB 1/14	
Pace Trip Blank lot # (if purchased): _____		15.
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☒N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/15/14

F-KS-C-003-Rev.9, 30June2015

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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 1

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		N												
1	MW-179-201601	WT	G	1/13/16	930				3				X						X											N	60211269 (3DCAH) 01
2	VP-14-201601	WT	G	1/13/16	950				3				X						X											N	02
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Wendy Stonestreet	1/13/16	1815		1/14	1400	1.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM/DD/YY): 1/13/16

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-Feb-2007

Pace Analytical Services, Inc.
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January 27, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH AR
Pace Project No.: 60211330

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 15, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH AR
Pace Project No.: 60211330

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FORT SMITH AR
Pace Project No.: 60211330

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60211330001	**MW-180-201601**	Water	01/14/16 08:20	01/15/16 13:01

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211330

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60211330001	**MW-180-201601**	EPA 5030B/8260	PGH	38	PASI-K

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211330

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 27, 2016

General Information:
1 sample was analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: MSV/73785

B: Analyte was detected in the associated method blank.

- BLANK for HBN 416091 [MSV/7378 (Lab ID: 1698841)
  - Bromomethane
  - Chloromethane

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73785

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211330

Sample: MW-180-201601 **Lab ID: 60211330001** Collected: 01/14/16 08:20 Received: 01/15/16 13:01 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/19/16 12:25	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/19/16 12:25	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/19/16 12:25	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/19/16 12:25	75-25-2	
Bromomethane	**0.33J**	ug/L	5.0	0.16	1		01/19/16 12:25	74-83-9	B
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/19/16 12:25	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/19/16 12:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/19/16 12:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/19/16 12:25	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/19/16 12:25	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/19/16 12:25	67-66-3	
Chloromethane	**0.14J**	ug/L	1.0	0.080	1		01/19/16 12:25	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/19/16 12:25	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/19/16 12:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/19/16 12:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/19/16 12:25	75-35-4	
cis-1,2-Dichloroethene	**1.5**	ug/L	1.0	0.080	1		01/19/16 12:25	156-59-2	
trans-1,2-Dichloroethene	**0.27J**	ug/L	1.0	0.20	1		01/19/16 12:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/19/16 12:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/19/16 12:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/19/16 12:25	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/19/16 12:25	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/19/16 12:25	591-78-6	
Methylene chloride	**0.63J**	ug/L	1.0	0.15	1		01/19/16 12:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/19/16 12:25	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/19/16 12:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/19/16 12:25	79-34-5	
Tetrachloroethene	**0.25J**	ug/L	1.0	0.10	1		01/19/16 12:25	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/19/16 12:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/19/16 12:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/19/16 12:25	79-00-5	
Trichloroethene	**10.6**	ug/L	1.0	0.17	1		01/19/16 12:25	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/19/16 12:25	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/19/16 12:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	77-130		1		01/19/16 12:25	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	81-127		1		01/19/16 12:25	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/19/16 12:25	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/19/16 12:25		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211330

QC Batch: MSV/73785
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211330001

METHOD BLANK: 1698841
Matrix: Water
Associated Lab Samples: 60211330001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/19/16 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/19/16 12:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/19/16 12:11	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/19/16 12:11	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/19/16 12:11	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/19/16 12:11	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/19/16 12:11	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/19/16 12:11	
2-Hexanone	ug/L	ND	10.0	1.2	01/19/16 12:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/19/16 12:11	
Acetone	ug/L	ND	10.0	1.9	01/19/16 12:11	
Benzene	ug/L	ND	1.0	0.060	01/19/16 12:11	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/19/16 12:11	
Bromoform	ug/L	ND	1.0	0.070	01/19/16 12:11	
Bromomethane	ug/L	0.29J	5.0	0.16	01/19/16 12:11	
Carbon disulfide	ug/L	0.15J	5.0	0.12	01/19/16 12:11	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/19/16 12:11	
Chlorobenzene	ug/L	ND	1.0	0.21	01/19/16 12:11	
Chloroethane	ug/L	ND	1.0	0.15	01/19/16 12:11	
Chloroform	ug/L	ND	1.0	0.14	01/19/16 12:11	
Chloromethane	ug/L	0.22J	1.0	0.080	01/19/16 12:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/19/16 12:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/19/16 12:11	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/19/16 12:11	
Ethylbenzene	ug/L	ND	1.0	0.18	01/19/16 12:11	
Methylene chloride	ug/L	ND	1.0	0.15	01/19/16 12:11	
Styrene	ug/L	ND	1.0	0.12	01/19/16 12:11	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/19/16 12:11	
Toluene	ug/L	ND	1.0	0.17	01/19/16 12:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/19/16 12:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/19/16 12:11	
Trichloroethene	ug/L	ND	1.0	0.17	01/19/16 12:11	
Vinyl chloride	ug/L	ND	1.0	0.13	01/19/16 12:11	
Xylene (Total)	ug/L	ND	3.0	0.42	01/19/16 12:11	
1,2-Dichloroethane-d4 (S)	%	101	81-127		01/19/16 12:11	
4-Bromofluorobenzene (S)	%	99	77-130		01/19/16 12:11	
Toluene-d8 (S)	%	98	80-120		01/19/16 12:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211330

LABORATORY CONTROL SAMPLE: 1698842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	81-116	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	93	72-117	
1,1,2-Trichloroethane	ug/L	20	18.2	91	79-108	
1,1-Dichloroethane	ug/L	20	20.1	100	83-117	
1,1-Dichloroethene	ug/L	20	19.6	98	74-114	
1,2-Dichloroethane	ug/L	20	19.7	99	72-116	
1,2-Dichloropropane	ug/L	20	18.7	94	80-120	
2-Butanone (MEK)	ug/L	100	108	108	67-129	
2-Hexanone	ug/L	100	104	104	70-128	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	80-120	
Acetone	ug/L	100	119	119	56-142	
Benzene	ug/L	20	20.4	102	79-116	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	19.0	95	73-114	
Bromomethane	ug/L	20	17.4	87	49-153	
Carbon disulfide	ug/L	20	20.9	104	82-121	
Carbon tetrachloride	ug/L	20	19.3	97	80-116	
Chlorobenzene	ug/L	20	19.3	97	80-120	
Chloroethane	ug/L	20	21.6	108	67-124	
Chloroform	ug/L	20	18.5	93	79-120	
Chloromethane	ug/L	20	22.2	111	10-192	
cis-1,2-Dichloroethene	ug/L	20	18.7	93	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	80-120	
Dibromochloromethane	ug/L	20	20.1	101	80-120	
Ethylbenzene	ug/L	20	19.5	98	80-120	
Methylene chloride	ug/L	20	21.0	105	80-120	
Styrene	ug/L	20	20.4	102	80-120	
Tetrachloroethene	ug/L	20	19.5	98	80-120	
Toluene	ug/L	20	19.5	98	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	78-108	
trans-1,3-Dichloropropene	ug/L	20	19.7	99	85-120	
Trichloroethene	ug/L	20	18.3	91	76-114	
Vinyl chloride	ug/L	20	22.5	112	69-129	
Xylene (Total)	ug/L	60	59.5	99	80-120	
1,2-Dichloroethane-d4 (S)	%			101	81-127	
4-Bromofluorobenzene (S)	%			99	77-130	
Toluene-d8 (S)	%			101	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH AR
Pace Project No.: 60211330

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73785

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211330

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211330001	**MW-180-201601**	EPA 5030B/8260	MSV/73785		

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Pace Analytical®
www.pacelabs.com

Sample Condition Upon Receipt

WO# : 60211330

60211330

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☑

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☐ No ☑ Seals intact: Yes ☐ No ☑

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☑ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 5.9

Date and initials of person examining contents: JB 1/15

Temperature should be above freezing to 6°C

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 holding time:	☑Yes	☐No	☐N/A	5.
Short Hold Time analyses (<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	
Pace containers used:	☑Yes	☐No	☐N/A	9.
Containers intact:	☑Yes	☐No	☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes	☐No	☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes	☐No	☑N/A	12.
Sample labels match COC:	☑Yes	☐No	☐N/A	
Includes date/time/ID/analyses Matrix: WT				13.
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☑Yes	☐No		Initial when completed / Lot # of added preservative
Trip Blank present:	☐Yes	☑No	☐N/A	
Pace Trip Blank lot # (if purchased): _____				15.
Headspace in VOA vials (>6mm):	☐Yes	☑No	☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☐No	☑N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes	☐No	☑N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

REVIEWED
By hwilson at 3:42 pm, 1/15/16

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.

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

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 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-180-20161114	WT	G	11/14/16	820				3				X						X											(3) D19A
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

60211330

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Wendy Stonestreet / Ramboll/ENVIRON	11/15/16	1300	[signature]	11/15/16	1301	5.9	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

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

*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.

Appendix C

Data Validation Report

LEVEL II DATA VALIDATION REVIEW
1st Quarter Groundwater Monitoring Event 2016
Whirlpool Corporation
Fort Smith, Arkansas

Laboratory Sample Delivery Groups (SDGs): 60210853, 60210862, 60210924, 60210981, 60210979, 60210969, 60210967, 60210974, 60210978, 60211266, 60211085, 60211236, 60211269 and 60211330

Laboratory: PACE Analytical, Lenexa, Kansas

Reviewer: Wendy Stonestreet **Date Reviewed: February 5, 2016**

This data validation report has been prepared by ENVIRON International Corporation (ENVIRON) to assess the validity and usability of laboratory analytical data generated from samples collected during the 4th quarter groundwater sampling event at the Whirlpool Corporation, Fort Smith, Arkansas Site (the "site") from January 7, 2016 through January 14, 2016.

The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following document: *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (OSWER 9355.0-132, EPA-540-R-014-022, August, 2014). Analytical services for volatile organic compounds (VOC) analysis of 148 aqueous samples was provided by PACE Analytical of Lenexa, Kansas.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness and comparability relative to the project data quality objectives. This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability of the data.

One hundred and six (106) ground water samples, ten (10) blind ground water field duplicates, five (5) matrix spike/matrix spike duplicate (MS/MSD), seven (7) equipment rinsate blanks and twenty-five (25) trip blanks were submitted to the laboratory for VOC analysis and evaluated in this data validation report. The following table lists the sample identifications by SDG.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				VOCs
SDG: 60210853				
MW-23-201601	SA	60210853001	Aqueous	X
MW-24-201601	SA	60210853002	Aqueous	X
MW-83-201601	SA	60210853003	Aqueous	X
MW-84-201601	SA	60210853004	Aqueous	X
TRIP BLANK-01	TB	60210853005	Aqueous	X
SDG: 60210862				
IW-80-201601	SA	60210853006	Aqueous	X
IW-101-201601	SA	60210853007	Aqueous	X
MW-189-201601	SA	60210853009	Aqueous	X
MW-186-201601	SA	60210853008	Aqueous	X
TRIP BLANK-02	TB	60210853010	Aqueous	X
SDG: 60210924				

Field ID	Sample Type	Lab ID	Matrix	Analyses
				VOCs
TMW-10-201601	SA	60210924001	Aqueous	X
TMW-11-201601	SA	60210924002	Aqueous	X
MW-61R-201601	SA	60210924003	Aqueous	X
MW-33R-201601	SA	60210924004	Aqueous	X
FB-01-201601	FB	60210924005	Aqueous	X
TB-03-201601	TB	60210924006	Aqueous	X
MW-187-201601	SA	60210924007	Aqueous	X
MW-188-201601	SA	60210924008	Aqueous	X
SDG: 60210981				
VP-15-201601	SA	60210981001	Aqueous	X
SDG: 60210979				
MW-175-201610	SA	60210979001	Aqueous	X
VP-08-201610	SA	60210979002	Aqueous	X
VP-07-201610	SA	60210979003	Aqueous	X
SDG: 60210969				
MW-99-201601	SA	60210969001	Aqueous	X
MW-184-201601	SA	60210969002	Aqueous	X
MW-98-201601	SA	60210969003	Aqueous	X
SDG: 60210967				
MW-34R-201601	SA	60210967001	Aqueous	X
MW-35R-201601	SA	60210967002	Aqueous	X
MW-36R-201601	SA	60210967003	Aqueous	X
MW-65-201601	SA	60210967004	Aqueous	X
MW-81-201601	SA	60210967005	Aqueous	X
MW-82-201601	SA	60210967006	Aqueous	X
IW-77-201601	SA	60210967007	Aqueous	X
IW-78-201601	SA	60210967008	Aqueous	X
IW-79-201601	SA	60210967009	Aqueous	X
IW-115-201601	SA	60210967010	Aqueous	X
TB-01-201601	TB	60210967011	Aqueous	X
TB-02-201601	TB	60210967012	Aqueous	X
SDG: 60210974				
MW-191-201601	SA	60210974001	Aqueous	X
MW-192-201601	SA	60210974002	Aqueous	X
MW-185-201601	SA	60210974003	Aqueous	X
MW-190-201601	SA	60210974004	Aqueous	X
MW-50R-201601	SA	60210974005	Aqueous	X
MW-60R-201601	SA	60210974006	Aqueous	X
MW-67R-201601	SA	60210974007	Aqueous	X
MW-66-201601	SA	60210974008	Aqueous	X
MW-193-201601	SA	60210974009	Aqueous	X
MW-62R-201601	SA	60210974010	Aqueous	X
MW-56R-201601	SA	60210974011	Aqueous	X
MW-57R-201601	SA	60210974012	Aqueous	X
MW-71-201601	SA	60210974013	Aqueous	X
EB-01-201601	RB	60210974014	Aqueous	X
TB-03-201601	TB	60210974015	Aqueous	X

Field ID	Sample Type	Lab ID	Matrix	Analyses
				VOCs
TB-04-201601	TB	60210974016	Aqueous	X
TB-05-201601	TB	60210974017	Aqueous	X
TB-06-201601	TB	60210974018	Aqueous	X
EB-02-201601	RB	60210974019	Aqueous	X
SDG: 60210978				
MW-181-201601	SA	60210978001	Aqueous	X
MW-177-201601	SA	60210978002	Aqueous	X
VP-12-201601	SA	60210978003	Aqueous	X
SDG: 60211266				
MW-174-201601	SA	60211266001	Aqueous	X
MW-173-201601	SA	60211266002	Aqueous	X
VP-06-201601	SA	60211266003	Aqueous	X
VP-05-201601	SA	60211266004	Aqueous	X
SDG: 60211085				
MW-40R-201601	SA	60211085001	Aqueous	X
IW-72-201601	SA	60211085002	Aqueous	X
IW-74-201601	SA	60211085003	Aqueous	X
IW-73-201601	SA	60211085004	Aqueous	X
MW-41R-201601	SA	60211085005	Aqueous	X
IW-76-201601	SA	60211085006	Aqueous	X
MW-39R-201601	SA	60211085007	Aqueous	X
MW-46R-201601	SA	60211085008	Aqueous	X
MW-55R-201601	SA/MS/MSD	60211085009	Aqueous	X
MW-68-201601	SA	60211085010	Aqueous	X
RW-69-201601	SA	60211085011	Aqueous	X
ITMW-6-201601	SA/MS/MSD	60211085012	Aqueous	X
MW-27-201601	SA	60211085013	Aqueous	X
MW-31R-201601	SA	60211085014	Aqueous	X
MW-32R-201601	SA	60211085015	Aqueous	X
MW-97-201601	SA	60211085016	Aqueous	X
MW-183-201601	SA	60211085017	Aqueous	X
MW-96-201601	SA	60211085018	Aqueous	X
MW-89-201601	SA	60211085019	Aqueous	X
MW-58R-201601	SA	60211085020	Aqueous	X
MW-88-201601	SA	60211085021	Aqueous	X
ITMW-20-201601	SA/MS/MSD	60211085022	Aqueous	X
MW-63R-201601	SA	60211085023	Aqueous	X
MW-22-201601	SA	60211085024	Aqueous	X
ITMW-14-201601	SA	60211085025	Aqueous	X
MW-90-201601	SA/MS/MSD	60211085026	Aqueous	X
ITMW-2-201601	SA	60211085027	Aqueous	X
ITMW-4-201601	SA	60211085028	Aqueous	X
MW-28-201601	SA/MS/MSD	60211085029	Aqueous	X
DUP-07-201601	FD	60211085030	Aqueous	X
DUP-06-201601	FD	60211085031	Aqueous	X
DUP-05-201601	FD	60211085032	Aqueous	X

Field ID	Sample Type	Lab ID	Matrix	Analyses
				VOCs
DUP-10-201601	FD	60211085033	Aqueous	X
EB-04-201601	RB	60211085034	Aqueous	X
EB-03-201601	RB	60211085035	Aqueous	X
TB-07-201601	TB	60211085036	Aqueous	X
TB-08-2016021	TB	60211085037	Aqueous	X
TB-09-2016021	TB	60211085038	Aqueous	X
TB-10-2016021	TB	60211085039	Aqueous	X
TB-11-2016021	TB	60211085040	Aqueous	X
TB-12-2016021	TB	60211085041	Aqueous	X
SDG: 60211236				
MW-87-201601	SA	60211236001	Aqueous	X
MW-93-201601	SA	60211236002	Aqueous	X
MW-94-201601	SA	60211236003	Aqueous	X
MW-95-201601	SA	60211236004	Aqueous	X
MW-26-201601	SA	60211236005	Aqueous	X
ITMW-1-201601	SA	60211236006	Aqueous	X
MW-38-201601	SA	60211236007	Aqueous	X
MW-92-201601	SA	60211236008	Aqueous	X
ITMW-13-201601	SA	60211236009	Aqueous	X
ITMW-11-201601	SA	60211236010	Aqueous	X
ITMW-12-201601	SA	60211236011	Aqueous	X
ITMW-15-201601	SA	60211236012	Aqueous	X
ITMW-21-201601	SA	60211236013	Aqueous	X
ITMW-7-201601	SA	60211236014	Aqueous	X
MW-182-201601	SA	60211236015	Aqueous	X
ITMW-10-201601	SA	60211236016	Aqueous	X
ITMW-18-201601	SA	60211236017	Aqueous	X
ITMW-19-201601	SA	60211236018	Aqueous	X
ITMW-9-201601	SA	60211236019	Aqueous	X
MW-91-201601	SA	60211236020	Aqueous	X
MW-85-201601	SA	60211236021	Aqueous	X
MW-25-201601	SA	60211236022	Aqueous	X
MW-86-201601	SA	60211236023	Aqueous	X
ITMW-17-201601	SA	60211236024	Aqueous	X
MW-172-201601	SA	60211236025	Aqueous	X
ITMW-16-201601	SA	60211236026	Aqueous	X
MW-29-201601	SA	60211236027	Aqueous	X
DUP-09-201601	FD	60211236028	Aqueous	X
DUP-02-201601	FD	60211236029	Aqueous	X
DUP-04-201601	FD	60211236030	Aqueous	X
DUP-03-201601	FD	60211236031	Aqueous	X
EB-05-201601	RB	60211236032	Aqueous	X
EB-06-201601	RB	60211236033	Aqueous	X
DUP-01-201601	FD	60211236034	Aqueous	X
TB-19-201601	TB	60211236035	Aqueous	X

Field ID	Sample Type	Lab ID	Matrix	Analyses
				VOCs
TB-15-201601	TB	60211236036	Aqueous	X
TB-16-201601	TB	60211236037	Aqueous	X
TB-17-201601	TB	60211236038	Aqueous	X
TB-18-201601	TB	60211236039	Aqueous	X
DUP-08-201601	FD	60211236040	Aqueous	X
TB-20-201601	TB	60211236041	Aqueous	X
SDG: 60211269				
MW-179-201601	SA	60211269001	Aqueous	X
VP-14-201601	SA	60211269002	Aqueous	X
SDG: 60211330				
MW-180-201601	SA	60211330001	Aqueous	X

Sample Type: SA = Sample TB = Trip Blank FD = Field Duplicate RB = Rinsate Blank
MS =Matrix Spike MSD = Matrix Spike Duplicate
VOCs = Volatile Organic Compounds by USEPA Method SW-846 8260B by Gas Chromatography/Mass Spectrometry (GC/MS) Medium Level.

The following laboratory submittals were evaluated:

- Data Package Completeness,
- Sample Preservation and Holding Times,
- Blanks,
- Surrogate Compound Recoveries
- Laboratory Control Samples,
- Matrix Spike/Matrix Spike Duplicates,
- Laboratory and Field Precision,
- Overall Assessment of Data.

General Overall Assessment:

_____ Data are usable without qualification.

__X__ Data are usable with qualification (noted below).

_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification were noted below.

1.0 Data Package Completeness

Were all items delivered as specified on the COC and is the data package complete?

Yes, the analysis was performed as requested on the chain-of-custody records. All samples were received by the laboratory and analyzed properly with appropriate corrective actions taken when appropriate. Two data points were rejected. The data completeness measure for this data package is 99.9% and is acceptable.

2.0 Laboratory Case Narrative, Sample Preservation and Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated the following:

- **SDG: 60210853 -** The laboratory indicated that chloromethane and carbon disulfide were detected in a method blank. See Section 4.0 for further discussion and resultant data qualification.
- **SDG: 60210862 -** The laboratory indicated that chloromethane and chloromethane were detected in a method blank. See Section 4.0 for further discussion and resultant data qualification.
- **SDG: 60211266 -** The laboratory indicated that the laboratory control sample (LCS) was reported outside of laboratory control requirements for acetone. See Section 7.0 for further discussion and resultant data qualification.
- **SDG: 60211085 -** The laboratory indicated that chloromethane were detected in a method blank. See Section 4.0 for further discussion and resultant data qualification. The laboratory indicated that the laboratory control sample (LCS) was reported outside of laboratory control requirements for acetone and acetone. See Section 7.0 for further discussion and resultant data qualification. The laboratory indicated that the matrix spike/matrix spike duplicate recoveries were reported outside of laboratory control requirements for several analytes. See Section 8.0 for further discussion and resultant data qualification. The laboratory indicated that one surrogate recovery in two samples were reported outside of laboratory control limits. See Section 5.0 for further discussion and resultant data qualification.
- **SDG: 60211236 –** The laboratory indicated that c hloromethane, carbon disulfide, methylene chloride and bromomethane were detected in a method blank. See Section 4.0 for further discussion and resultant data qualification. The laboratory indicted that the laboratory control sample (LCS) was reported outside of laboratory control requirements for acetone. See section 7.0 for further discussion and resultant data qualification.
- **SDG: 60211269 -** The laboratory indicated that chloromethane and carbon disulfide was detected in the method blank. See Section 4.0 for further discussion and resultant data qualification.
- **SDG: 60211330 -** The laboratory indicated that bromomethane and chloromethane was detected in the method blank. See Section 4.0 for further discussion and resultant data qualification.
- **SDG: 60211267 -** The laboratory indicated that carbon disulfide was detected in the method blank. See Section 4.0 for further discussion and resultant data qualification. The laboratory indicated that the laboratory control sample (LCS) was reported outside of laboratory control requirements for acetone. See Section 7.0 for further discussion and resultant data qualification.

Samples were received at the PACE, Lenexa, Kansas laboratory in good condition and at proper temperature 4˚C ± 2˚C (26 coolers 2.8˚C, 4.3˚C, 2.5˚C, 5.1˚C, 2.3˚C, 2.3˚C, 4.9˚C, 5.1˚C, 4.3˚C, 5.1˚C, 4.6˚C, 3.6˚C, 4.9˚C, 4.1˚C, 4.0˚C, 2.6˚C, 6.0˚C, 3.0˚C, 4.2˚C, 5.0˚C, 3.0˚C, 3.6˚C, 4.2˚C and 5.9˚C). Temperature upon receipt for six coolers was 0.1˚C, 1.8˚C, 1.0˚C, and 1.7˚C respectively which is below the proper temperature. However, given that the temperature was taken using an Infrared thermometer, which has an error tolerance of +/-1.0 degrees Celsius, and the laboratory did not note any freezing of the samples, this non-conformance does not affect the usability of the data.

3.0 Technical Holding Times

Were samples extracted/analysed within method specific holding time requirements?

Yes. All samples were prepared and/or analysed within the method specific required holding time of 14 days for hydrochloric (HCl) acid preserved samples. Samples which were preserved with ascorbic acid and samples with pH preservation recorded above 2.0 (IW-80-201601, IW-101-201601, MW-35R-201601, MW-65-201601, MW-81-201601, MW-82-201601, IW-77-201601, IW-79-201601, IW-115-201601, MW-32R-201601, MW-94-201601, MW-25-201601, MW-86-201601 and DUP-03-201601) whose holding time was reduced to seven days were also analysed within holding time.

4.0 Blank Contamination

Were any analytes detected in the associated laboratory or field blanks?

Yes. The following table summarizes analytes detected in sample-associated blanks after accounting for method blank contamination.

SDG	Blank ID	Blank Type	Parameter	Analyte	Concentration	Units
60210853	1694414	Method	8260B	Carbon disulfide	0.15 J	µg/L
60210853	1694414	Method	8260B	Chloromethane	0.25 J	µg/L
60210853	TRIP BLANK-01	Trip	8260B	Acetone	4.1 J	µg/L
60210853	1694839	Method	8260B	Carbon disulfide	0.15 J	µg/L
60210853	1694839	Method	8260B	Chloromethane	0.25 J	µg/L
60210862	1694414	Method	8260B	Carbon disulfide	0.15 J	µg/L
60210862	1694414	Method	8260B	Chloromethane	0.25J	µg/L
60210862	1694839	Method	8260B	Carbon disulfide	0.15 J	µg/L
60210967	TB-01-201601	Trip	8260B	Chloromethane	0.28 J	µg/L
60210967	TB-02-201601	Trip	8260B	Chloromethane	0.15 J	µg/L
60210974	EB-01-201601	Equipment	8260B	Chloromethane	0.15 J	µg/L
60210974	TB-03-201601	Trip	8260B	Chloromethane	0.15 J	µg/L
60210974	TB-04-201601	Trip	8260B	Chloromethane	0.081 J	µg/L
60210974	TB-05-201601	Trip	8260B	Chloromethane	0.10 J	µg/L
60210974	TB-06-201601	Trip	8260B	Chloromethane	0.11 J	µg/L
60211085	EB-03-201601	Equipment	8260B	Chloromethane	0.20 J	µg/L
60211085	TB-13-201601	Trip	8260B	Bromomethane	1.6 J	µg/L
60211085	TB-13-201601	Trip	8260B	Chloromethane	0.32 J	µg/L
60211085	TB-14-201601	Trip	8260B	Chloromethane	0.24 J	µg/L
60211085	1696916	Method	8260B	Chloromethane	0.29 J	µg/L
60211085	1697069	Method	8260B	Chloromethane	0.25 J	µg/L
60211085	1697620	Method	8260B	Chloromethane	0.37 J	µg/L
60211085	1696932	Method	8260B	Chloromethane	0.29 J	µg/L
60211267	1698841	Method	8260B	Bromomethane	0.29 J	µg/L
60211267	1698841	Method	8260B	Carbon disulfide	0.15 J	µg/L
60211267	1698841	Method	8260B	Chloromethane	0.22 J	µg/L
60211236	1699807	Method	8260B	Bromomethane	0.45 J	µg/L
60211236	1699807	Method	8260B	Chloromethane	0.24 J	µg/L
60211239	1699807	Method	8260B	Methylene chloride	0.62 J	µg/L
60211236	1697618	Method	8260B	Chloromethane	0.37 J	µg/L
60211236	1698830	Method	8260B	Bromomethane	0.29 J	µg/L
60211236	1698830	Method	8260B	Carbon disulfide	0.15 J	µg/L
60211236	1698830	Method	8260B	Chloromethane	0.22 J	µg/L
60211236	EB-05-201601	Equipment	8260B	Chloromethane	0.16 J	µg/L
60211236	TB-15-201601	Trip	8260B	Chloroform	0.28 J	µg/L
60211236	TB-16-201601	Trip	8260B	Chloroform	0.29 J	µg/L
60211236	TB-17-201601	Trip	8260B	Chloroform	0.31 J	µg/L
60211236	TB-17-201601	Trip	8260B	Chloromethane	0.16 J	µg/L
60211236	TB-18-201601	Trip	8260B	Chloromethane	0.088 J	µg/L
60211269	1698841	Method	8260B	Bromomethane	0.29 J	µg/L

SDG	Blank ID	Blank Type	Parameter	Analyte	Concentration	Units
60211269	1698841	Method	8260B	Carbon disulfide	0.15 J	µg/L
60211269	1698841	Method	8260B	Chlroomethane	0.22 J	µg/L
60211330	1698841	Method	8260B	Bromomethane	0.29 J	µg/L
60211330	1698841	Method	8260B	Carbon disulfide	0.15 J	µg/L
60211330	1698841	Method	8260B	Chloromethane	0.22 J	µg/L
60211267	1698841	Method	8260B	Bromomethane	0.29 J	µg/L
60211267	1698841	Method	8260B	Carbon disulfide	0.15 J	µg/L
60211267	1698841	Method	8260B	Chloromethane	0.22 J	µg/L

ID = Identification µg/L = micrograms per Liter

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification. Data qualification of sample results due to blank contamination is summarized in the table below.

SDG	Field ID	Parameter	Analyte	Qualification
60210853	MW-24-201601	8260B	Carbon disulfide	**U**
60210853	MW-83-201601	8260B	Carbon disulifde	**U**
60210853	TRIP BLANK-01	8260B	Chloromethane	**U**
60210853	MW-23-201601	8260B	Acetone	**U**
60210853	MW-83-201601	8260B	Acetone	**U**
60210853	MW-84-201601	8260B	Acetone	**U**
60210862	MW-189-201601	8260B	Chloromethane	**U**
60210862	MW-186-201601	8260B	Chloromethane	**U**
60210862	TRIP BLANK-02	8260B	Chloromethane	**U**
60210967	IW-115-201601	8260B	Chloromethane	**U**
60210974	MW-191-201601	8260B	Chloromethane	**U**
60210974	MW-60R-201601	8260B	Chloromethane	**U**
60210974	MW-67R-201601	8260B	Chloromethane	**U**
60210974	MW-66-201601	8260B	Chloromethane	**U**
60210974	MW-193-201601	8260B	Chloromethane	**U**
60210974	MW-62R-201601	8260B	Chloromethane	**U**
60210974	MW-56R-201601	8260B	Chloromethane	**U**
60210974	MW-57R-201601	8260B	Chloromethane	**U**
60210974	MW-71-201601	8260B	Chloromethane	**U**
60210978	MW-177-201601	8260B	Chloromethane	**U**
60211266	MW-174-201601	8260B	Chloromethane	**U**
60211266	MW-173-201601	8260B	Chloromethane	**U**
60211085	MW-40R-201601	8260B	Chloromethane	**U**
60211085	IW-72-201601	8260B	Chloromethane	**U**
60211085	IW-74-201601	8260B	Chloromethane	**U**
60211085	IW-73-201601	8260B	Chloromethane	**U**
60211085	MW-46R-201601	8260B	Chloromethane	**U**
60211085	MW-55R-201601	8260B	Chloromethane	**U**
60211085	MW-68-201601	8260B	Chloromethane	**U**
60211085	RW-69-201601	8260B	Chloromethane	**U**
60211085	MW-24-201601	8260B	Chloromethane	**U**
60211085	MW-31R-201601	8260B	Chloromethane	**U**
60211085	MW-97-201601	8260B	Chloromethane	**U**
60211085	MW-183-201601	8260B	Chloromethane	**U**
60211085	MW-96-201601	8260B	Chloromethane	**U**

SDG	Field ID	Parameter	Analyte	Qualification
60211085	MW-89-201601	8260B	Chloromethane	U
60211085	MW-58R-201601	8260B	Chloromethane	U
60211085	ITMW-20-201601	8260B	Chloromethane	U
60211085	MW-22-201601	8260B	Chloromethane	U
60211085	ITMW-14-201601	8260B	Chloromethane	U
60211085	MW-90-201601	8260B	Chloromethane	U
60211085	ITMW-2-201601	8260B	Chloromethane	U
60211085	MW-28-201601	8260B	Chloromethane	U
60211085	DUP-06-201601	8260B	Chloromethane	U
60211085	DUP-05-201601	8260B	Chloromethane	U
60211085	DUP-10-201601	8260B	Chloromethane	U
60211085	EB-03-201601	8260B	Chloromethane	U
60211085	TB-07-201601	8260B	Chloromethane	U
60211085	TB-08-201601	8260B	Chloromethane	U
60211085	TB-09-201601	8260B	Chloromethane	U
60211085	TB-10-201601	8260B	Chloromethane	U
60211085	TB-11-201601	8260B	Chloromethane	U
60211267	VP-10-201601	8260B	Carbon disulfide	U
60211236	MW-93-201601	8260B	Chloromethane	U
60211236	MW-93-201601	8260B	Methylene chloride	U
60211236	MW-94-201601	8260B	Methylene chloride	U
60211236	MW-95-201601	8260B	Chloromethane	U
60211236	MW-95-201601	8260B	Methylene chloride	U
60211236	MW-38-201601	8260B	Chloromethane	U
60211236	MW-38-201601	8260B	Methylene chloride	U
60211236	MW-92-201601	8260B	Carbon disulfide	U
60211236	ITMW-11-201601	8260B	Chloromethane	U
60211236	ITMW-15-201601	8260B	Chloromethane	U
60211236	MW-86-201601	8260B	Bromomethane	U
60211236	ITMW-17-201601	8260B	Chloromethane	U
60211236	ITMW-17-201601	8260B	Methylene chloride	U
60211236	MW-172-201601	8260B	Methylene chloride	U
60211236	DUP-03-201601	8260B	Chloromethane	U
60211236	TB-19-201601	8260B	Chloromethane	U
60211236	TB-19-201601	8260B	Chloromethane	U
60211236	DUP-08-201601	8260B	Chloroform	U
60211236	DUP-08-201601	8260B	Chloromethane	U
60211236	MW-87-201601	8260B	Chloroform	U
60211236	MW-87-201601	8260B	Chloromethane	U
60211236	MW-26-201601	8260B	Chloromethane	U
60211236	MW-38-201601	8260B	Chloroform	U
60211236	MW-92-201601	8260B	Chloroform	U
60211236	ITMW-13-201601	8260B	Chloromethane	U
60211236	ITMW-11-201601	8260B	Chloroform	U
60211236	ITMW-12-201601	8260B	Chloroform	U
60211236	ITMW-12-201601	8260B	Chloromethane	U
60211236	ITMW-15-201601	8260B	Chloroform	U
60211269	MW-179-201601	8260B	Carbon disulfide	U
60211269	VP-14-201601	8260	Carbon disulfide	U
60211269	VP-14-201601	8260	Chloromethane	U

SDG	Field ID	Parameter	Analyte	Qualification
60211330	MW-180-201601	8260B	Bromomethane	**U**
60211330	MW-180-201601	8260B	Chloromethane	**U**
60211267	VP-10-201601	8260B	Carbon disulfide	**U**

5.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No. Surrogates are added to all samples prior to purging to evaluate the laboratory performance on individual samples. Three volatile surrogates (4-bromofluorobenzene, 1,2-dichloroethane-d4 and toluene-d8) were added to each sample. Percent recoveries (%R) for all volatile surrogates in all samples were within the method acceptance limits of 70-130%. The following table summarizes surrogate recoveries reported outside evaluation criteria.

SDG	Field ID	Parameter	Surrogate	Recovery %	Criteria %
60211085	IW-76-201601	8260B	Toluene-d8 (S)	**70**	80-120

ID = Identification RPD = Relative Percent Difference % = Percent

Analytical data that required qualification based on surrogate recoveries are included in the table below.

SDG	Field ID	Parameter	Analyte	Qualification
60211085	IW-76-201601	8260B	Ethylbenzene	**UJ**
60211085	IW-76-201601	8260B	Styrene	**UJ**
60211085	IW-76-201601	8260B	Tetrachloroethene	**UJ**
60211085	IW-76-201601	8260B	Toluene	**UJ**
60211085	IW-76-201601	8260B	Trichloroethene	**J**
60211085	IW-76-201601	8260B	Xylene	**UJ**

6.0 Internal Standards

Were the Internal standard areas within control limits and was the retention time criteria met?

Yes. Internal standards indicate whether GC/MS sensitivity and response were stable during each analysis. The laboratory reported that all criteria were within method requirements.

No analytical data were qualified based on the results of internal standard recovery

7.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No. The laboratory control sample (LCS) provides information on the accuracy of the analytical method and on the laboratory performance. The following table summarizes the LCS results that were outside the acceptance limits.

SDG	LCS ID	Parameter	Analyte	LCS (%)	LCS Criteria (Recovery %)
60211266	1697881	8260B	Acetone	**125**	72-120
60211085	1696917	8260B	Acetone	**127**	72-120
60211085	1697130	8260B	Acetone	**122**	72-120

SDG	LCS ID	Parameter	Analyte	LCS (%)	LCS Criteria (Recovery %)
60211085	1697130	8260B	2-Hexanone	**122**	75-121
60211085	1697621	8260B	Acetone	**128**	72-120
60211236	1697621	8260B	Acetone	**128**	72-120
60211267	1697881	8260B	Acetone	**128**	72-120

ID = Identification LCS/D = Laboratory Control Sample/Duplicate RPD = Relative Percent Difference % = Percent

Analytical data reported as non-detect and associated with LCS/LCSD recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

SDG	Field ID	Parameter	Analyte	Qualification
60211266	MW-173-201601	8260B	Acetone	**J**
60211266	VP-06-201601	8260B	Acetone	**J**
60211266	VP-05-201601	8260B	Acetone	**J**
60211085	IW-72-201601	8260B	Acetone	**J**
60211085	IW-76-201601	8260B	Acetone	**J**

8.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of these SDGs?

Yes. A matrix spike was performed from a site specific sample at the required frequency of 1:20 samples. MS/MSD data are used to assess long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery at the time of sample analysis.

Were MS/MSD recoveries within evaluation criteria?

No. MS/MSD recoveries which were outside acceptance evaluation criteria are summarized in the table below.

SDG	Sample ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD (%)	MS/MSD/ RPD Criteria (%)
60211085	MW-55R-201601	8260B	1,1,2,2-Tetrachloroethane	111/97	**14**	78-116/13
			Styrene	95/113	**18**	17-174/10
60211085	ITMW-20-201601	8260B	1,1,2,2-Tetrachloroethane	92/114	**21**	78-116/13
			1,1,2-Trichloroethane	89/101	**12**	84-112/12
			2-Hexanone	104/**117**	12	71-116/13
			Chlorobenzene	97/108	**10**	83-121/9
			Dibromochloromethane	93/106	**13**	65-134/11
			Styrene	**3/3**	0	17-174/10
			Tetrachloroethene	91/107	**16**	78-127/9
			Trichloroethene	96/113	**16**	71-120/10
60211085	MW-90-201601	8260B	1,1,2,2-Tetrachloroethane	115/96	**18**	78-116/13
			2-Hexanone	**117**/108	7	71-116/13
60211085	ITMW-6-201601	8260B	Styrene	**3/3**	0	17-174/10

MS = Matrix Spike MSD = Matrix Spike Duplicate RPD = Relative Percent Difference % = Percent

Analytical results reported as non-detect and associated with MS/MSD recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

SDG	Field ID	Parameter	Analyte	Qualification
60211085	ITMW-6-201601	8260B	Styrene	**R**
60211085	ITMW-20-201601	8260B	Styrene	**R**

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples performed as part of this SDG?

Yes, but only as spiked duplicates, which are discussed in the previous section.

10.0 Field Duplicate Results (Field Precision)

Were field duplicate samples collected as part of the evaluated SDGs?

Yes. The table below summarizes field duplicate pairs.

SDG	Field ID	Field Duplicate ID
60211085	IW-74-201601	DUP-05-201601
60211085	MW-40R-201601	DUP-06-201601
60211085	MW-41R-201601	DUP-07-201601
60211236	MW-87-201601	DUP-09-201601
60211236	ITMW-13-201601	DUP-02-201601
60211236	ITMW-11-201601	DUP-03-201601
60211236	ITMW-9-201601	DUP-04-201601
60211236	MW-91-201601	DUP-08-201601
60211236	ITMW-10-201601	DUP-01-201601
60211085	MW-58R-201601	DUP-10-201601

Were field duplicates within evaluation criteria?

No. RPD values were less than the control limit of <30% for all compounds with concentrations greater than the reporting limit. The following table summarizes sample and duplicate result concentrations and their relative percent difference.

SDG	Field ID	Duplicate ID	Analyte	Sample Result (ug/L)	Duplicate Result (ug/L)	RPD (%)
60211085	MW-41R-201601	DUP-07-201601	Chloroform	0.81 J*	0.81 J*	0.0
			1,1-Dichloroethene	0.28 J*	0.30 J*	6.9
			cis-1,2-Dichloroethene	40.9	40.1	1.9
			trans-1,2-Dichloroethene	0.61 J*	ND	NA
			Trichloroethene	59.9	56.6	5.7
			Vinyl chloride	0.38 J*	0.35 J*	8.2
60211085	MW-40R-201601	DUP-06-201601	cis-1,2-Dichloroethene	ND	0.22 J*	NA
			Vinyl chloride	ND	0.28 J*	NA
60211085	IW-74-201601	DUP-05-201601	Benzene	0.18 J*	0.17 J*	5.7
			1,1-Dichloroethene	0.26 J*	0.28 J*	7.4
			Chloromethane	0.25 J*	0.24 J*	4.1
			cis-1,2-Dichloroethene	3.2	3.3	3.1
			Trichloroethene	135	135	0.0
			Vinyl chloride	0.17 J*	0.18	5.7

SDG	Field ID	Duplicate ID	Analyte	Sample Result (ug/L)	Duplicate Result (ug/L)	RPD (%)
60211236	MW-87-201601	DUP-09-201601	Chloromethane	1.3	ND	NA
			1,1-Dichloroethane	0.23 J*	0.23 J*	0.0
			1,1-Dichloroethene	1.2	0.97 J*	21.2
			cis-1,2-Dichloroethene	35.3	34.1	3.5
			trans-1,2-Dichloroethene	0.35 J*	0.32 J*	9.0
			Tetrachloroethene	0.19 J*	0.22 J*	14.6
			Methylene chloride	0.75 J*	0.75 J*	0.0
			Trichloroethene	92.4	91.3	1.2
			Vinyl chloride	1.1	1.1	0.0
60211236	ITMW-13-201601	DUP-02-201601	1,1-Dichloroethene	0.29 J*	0.23 J*	23.1
			cis-1,2-Dichloroethene	26.7	26.1	2.8
			Trichloroethene	47.6	51.6	8.1
			Vinyl chloride	0.17 J*	ND	NA
60211236	ITMW-11-201601	DUP-03-201601	Acetone	2.6 J*	9.5 J*	**114.0**
			1,1-Dichloroethane	0.55 J*	1.9	**110.2**
			1,1-Dichloroethene	0.86 J*	2.0	**79.7**
			cis-1,2-Dichloroethene	100	199	**66.2**
			trans-1,2-Dichloroethene	1.4	2.0	**35.3**
			Ethylbenzene	0.27 J*	0.40 J*	**38.8**
			Methylene chloride	1.9	6.9	**113.6**
			Tetrachloroethene	1.1	1.4	24.0
			Toluene	3.1	6.4	**69.5**
			Trichloroethene	605	2,100	**110.5**
			Vinyl Chloride	13.1	65.3	**133.2**
60211236	ITMW-9-201601	DUP-04-201601	Chloromethane	1.3	ND	NA
			1,1-Dichloroethane	0.23 J*	0.23 J*	0.0
			1,1-Dichloroethene	1.2	0.97 J*	21.2
			cis-1,2-Dichloroethene	35.3	34.1	3.5
			trans-1,2-Dichloroethene	0.35 J*	0.32 J*	8.9
			Methylene chloride	0.75 J*	0.60 J*	22.2
			Tetrachloroethene	0.19 J*	0.22 J*	14.6
			Trichloroethene	92.4	91.3	1.2
			Vinyl chloride	1.1	1.1	0.0
60211236	MW-91-201601	DUP-08-201601	1,1-Dichloroethane	1.5	1.6	6.5
			1,1-Dichloroethene	4.1	4.2	2.4
			cis-1,2-Dichloroethene	36.1	38.6	6.7
			trans-1,2-Dichloroethene	0.40 J*	0.48 J*	18.2
			Tetrachloroethene	1.6	1.7	6.1
			Trichloroethene	413	422	2.2
			Vinyl Chloride	0.24 J*	0.24 J*	0.0
60211236	ITMW-10-201601	DUP-01-201601	Benzene	0.20 J*	0.21 J*	4.9
			1,1-Dichloroethane	3.1	3.3	6.3
			1,1-Dichloroethene	5.6	5.6	0.0
			cis-1,2-Dichloroethene	44.4	45.5	2.4
			trans-1,2-Dichloroethene	0.40 J*	0.46 J*	13.9
			Methylene chloride	0.30 J*	0.29 J*	3.4
			Tetrachloroethene	1.1	1.2	8.7
			Toluene	0.21 J*	0.23 J*	9.1
			Trichloroethene	761	735	3.5
			Vinyl chloride	1.6	1.7	6.1

SDG	Field ID	Duplicate ID	Analyte	Sample Result (ug/L)	Duplicate Result (ug/L)	RPD (%)
60211085	MW-58R-201601	DUP-10-201601	1,1-Dichloroethene	1.9	1.8	5.4
			cis-1,2-Dichloroethene	28.7	29.4	2.4
			trans-1,2-Dichloroethene	0.24 J*	0.25 J*	4.1
			Trichloroethene	312	319	2.2
			Vinyl chloride	0.67J*	0.66 J*	1.5

ug/L = micrograms/Liter RPD = Relative Percent Difference * = Results reported below reporting limit. ND = Not Detected. NE = Not evaluated

Data which was reported with an RPD of greater than 30% were J qualified as estimated values due to possible poor precision.

11.0 Detects and Calibration Range

For samples that were diluted and nondetect, were undiluted results also reported?

Not Applicable. All samples which were diluted had detections.

For samples that were not diluted and detected, were the results within calibration range?

Yes

12.0 Additional Qualifications

Were additional qualifications applied?

No

13.0 Overall Data Assessment

The data are usable for its intended purpose based on an evaluation of the QC parameters discussed in this report. Some data are qualified as estimated due to the inability to meet all QC criteria. The table below summarizes the final qualifications for the analytical data.

Data Qualifier Summary:

SDG	Field ID	Analysis	Analyte	Qualifier	Reason Code
60210853	MW-24-201601	8260B	Carbon disulfide	**U**	1
60210853	MW-83-201601	8260B	Carbon disulifde	**U**	1
60210853	TRIP BLANK-01	8260B	Chloromethane	**U**	1
60210853	MW-23-201601	8260B	Acetone	**U**	1
60210853	MW-83-201601	8260B	Acetone	**U**	1
60210853	MW-84-201601	8260B	Acetone	**U**	1
60210862	MW-189-201601	8260B	Chloromethane	**U**	1
60210862	MW-186-201601	8260B	Chloromethane	**U**	1
60210862	TRIP BLANK-02	8260B	Chloromethane	**U**	1
60210967	IW-115-201601	8260B	Chloromethane	**U**	1
60210974	MW-191-201601	8260B	Chloromethane	**U**	1
60210974	MW-60R-201601	8260B	Chloromethane	**U**	1
60210974	MW-67R-201601	8260B	Chloromethane	**U**	1
60210974	MW-66-201601	8260B	Chloromethane	**U**	1

SDG	Field ID	Analysis	Analyte	Qualifier	Reason Code
60210974	MW-193-201601	8260B	Chloromethane	U	1
60210974	MW-62R-201601	8260B	Chloromethane	U	1
60210974	MW-56R-201601	8260B	Chloromethane	U	1
60210974	MW-57R-201601	8260B	Chloromethane	U	1
60210974	MW-71-201601	8260B	Chloromethane	U	1
60210978	MW-177-201601	8260B	Chloromethane	U	1
60211266	MW-174-201601	8260B	Chloromethane	U	1
60211266	MW-173-201601	8260B	Chloromethane	U	1
60211085	MW-40R-201601	8260B	Chloromethane	U	1
60211085	IW-72-201601	8260B	Chloromethane	U	1
60211085	IW-74-201601	8260B	Chloromethane	U	1
60211085	IW-73-201601	8260B	Chloromethane	U	1
60211085	MW-46R-201601	8260B	Chloromethane	U	1
60211085	MW-55R-201601	8260B	Chloromethane	U	1
60211085	MW-68-201601	8260B	Chloromethane	U	1
60211085	RW-69-201601	8260B	Chloromethane	U	1
60211085	MW-24-201601	8260B	Chloromethane	U	1
60211085	MW-31R-201601	8260B	Chloromethane	U	1
60211085	MW-97-201601	8260B	Chloromethane	U	1
60211085	MW-183-201601	8260B	Chloromethane	U	1
60211085	MW-96-201601	8260B	Chloromethane	U	1
60211085	MW-89-201601	8260B	Chloromethane	U	1
60211085	MW-58R-201601	8260B	Chloromethane	U	1
60211085	ITMW-20-201601	8260B	Chloromethane	U	1
60211085	MW-22-201601	8260B	Chloromethane	U	1
60211085	ITMW-14-201601	8260B	Chloromethane	U	1
60211085	MW-90-201601	8260B	Chloromethane	U	1
60211085	ITMW-2-201601	8260B	Chloromethane	U	1
60211085	MW-28-201601	8260B	Chloromethane	U	1
60211085	DUP-06-201601	8260B	Chloromethane	U	1
60211085	DUP-05-201601	8260B	Chloromethane	U	1
60211085	DUP-10-201601	8260B	Chloromethane	U	1
60211085	EB-03-201601	8260B	Chloromethane	U	1
60211085	TB-07-201601	8260B	Chloromethane	U	1
60211085	TB-08-201601	8260B	Chloromethane	U	1
60211085	TB-09-201601	8260B	Chloromethane	U	1
60211085	TB-10-201601	8260B	Chloromethane	U	1
60211085	TB-11-201601	8260B	Chloromethane	U	1
60211267	VP-10-201601	8260B	Carbon disulfide	U	1
60211236	MW-93-201601	8260B	Chloromethane	U	1
60211236	MW-93-201601	8260B	Methylene chloride	U	1
60211236	MW-94-201601	8260B	Methylene chloride	U	1
60211236	MW-95-201601	8260B	Chloromethane	U	1
60211236	MW-95-201601	8260B	Methylene chloride	U	1
60211236	MW-38-201601	8260B	Chloromethane	U	1
60211236	MW-38-201601	8260B	Methylene chloride	U	1
60211236	MW-92-201601	8260B	Carbon disulfide	U	1
60211236	ITMW-11-201601	8260B	Chloromethane	U	1
60211236	ITMW-15-201601	8260B	Chloromethane	U	1
60211236	MW-86-201601	8260B	Bromomethane	U	1

SDG	Field ID	Analysis	Analyte	Qualifier	Reason Code
60211236	ITMW-17-201601	8260B	Chloromethane	U	1
60211236	ITMW-17-201601	8260B	Methylene chloride	U	1
60211236	MW-172-201601	8260B	Methylene chloride	U	1
60211236	DUP-03-201601	8260B	Chloromethane	U	1
60211236	TB-19-201601	8260B	Chloromethane	U	1
60211236	TB-19-201601	8260B	Chloromethane	U	1
60211236	DUP-08-201601	8260B	Chloroform	U	1
60211236	DUP-08-201601	8260B	Chloromethane	U	1
60211236	MW-87-201601	8260B	Chloroform	U	1
60211236	MW-87-201601	8260B	Chloromethane	U	1
60211236	MW-26-201601	8260B	Chloromethane	U	1
60211236	MW-38-201601	8260B	Chloroform	U	1
60211236	MW-92-201601	8260B	Chloroform	U	1
60211236	ITMW-13-201601	8260B	Chloromethane	U	1
60211236	ITMW-11-201601	8260B	Chloroform	U	1
60211236	ITMW-12-201601	8260B	Chloroform	U	1
60211236	ITMW-12-201601	8260B	Chloromethane	U	1
60211236	ITMW-15-201601	8260B	Chloroform	U	1
60211269	MW-179-201601	8260B	Carbon disulfide	U	1
60211269	VP-14-201601	8260B	Carbon disulfide	U	1
60211269	VP-14-201601	8260B	Chloromethane	U	1
60211330	MW-180-201601	8260B	Bromomethane	U	1
60211330	MW-180-201601	8260B	Chloromethane	U	1
60211267	VP-10-201601	8260B	Carbon disulfide	U	1
60211085	ITMW-6-201601	8260B	Styrene	R	2
60211085	ITMW-20-201601	8260B	Styrene	R	2
60211236	ITMW-11-201601	8260B	Acetone	J	3
60211236	ITMW-11-201601	8260B	1,1-Dichloroethane	J	3
60211236	ITMW-11-201601	8260B	1,1-Dichloroethene	J	3
60211236	ITMW-11-201601	8260B	cis-1,2-Dichloroethene	J	3
60211236	ITMW-11-201601	8260B	trans-1,2-Dichloroethene	J	3
60211236	ITMW-11-201601	8260B	Ethylbenzene	J	3
60211236	ITMW-11-201601	8260B	Methylene chloride	J	3
60211236	ITMW-11-201601	8260B	Toluene	J	3
60211236	ITMW-11-201601	8260B	Trichloroethene	J	3
60211236	ITMW-11-201601	8260B	Vinyl Chloride	J	3
60211236	DUP-03-201601	8260B	Acetone	J	3
60211236	DUP-03-201601	8260B	1,1-Dichloroethane	J	3
60211236	DUP-03-201601	8260B	1,1-Dichloroethene	J	3
60211236	DUP-03-201601	8260B	cis-1,2-Dichloroethene	J	3
60211236	DUP-03-201601	8260B	trans-1,2-Dichloroethene	J	3
60211236	DUP-03-201601	8260B	Ethylbenzene	J	3
60211236	DUP-03-201601	8260B	Methylene chloride	J	3
60211236	DUP-03-201601	8260B	Toluene	J	3
60211236	DUP-03-201601	8260B	Trichloroethene	J	3
60211236	DUP-03-201601	8260B	Vinyl Chloride	J	3
60211085	IW-76-201601	8260B	Ethylbenzene	UJ	4
60211085	IW-76-201601	8260B	Styrene	UJ	4
60211085	IW-76-201601	8260B	Tetrachloroethene	UJ	4
60211085	IW-76-201601	8260B	Toluene	UJ	4
60211085	IW-76-201601	8260B	Trichloroethene	J	4
60211085	IW-76-201601	8260B	Xylene	UJ	4

SDG	Field ID	Analysis	Analyte	Qualifier	Reason Code
60211266	MW-173-201601	8260B	Acetone	**J**	5
60211266	VP-06-201601	8260B	Acetone	**J**	5
60211266	VP-05-201601	8260B	Acetone	**J**	5
60211085	IW-72-201601	8260B	Acetone	**J**	5
60211085	IW-76-201601	8260B	Acetone	**J**	5

Data Validation Qualifier Codes:

U = Non-detect. The compound was analysed for, but not detected.

J = Estimated. The associated numerical value is an estimated quantity. The analyte was detected but the reported value may not be accurate or precise.

UJ = Estimated Non-detect. The analyte was not detected above the method detection limit. However, it is an estimated quantity due to poor accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate or other spike recovery.

R = Rejected. The sample results are unusable due to the quality of the data generated.

Data Qualifier Reason Codes:

1 Samples were qualified as non-detect due to blank contamination.
2 Samples were qualified due to poor Matrix Spike recoveries. Results may be biased low.
3 Samples were qualified due to poor duplicate precision.
4 Samples were qualified due to poor surrogate recoveries. Results may be biased low.
5 Samples were qualified due to poor LCS recoveries. Results may be biased high.



ATTACHMENT B
First Quarter 2016 Soil Vapor Monitoring and Vapor Intrusion Assessment Report
Whirlpool Corporation
Fort Smith, Arkansas

Prepared for:
Whirlpool Corporation

Prepared by:
Ramboll Environ US Corporation

Date:
May 2016

Project Number:
34-37500O

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RAMBOLL ENVIRON

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1 Introduction

Ramboll Environ US Corporation (Ramboll Environ) has prepared this First Quarter 2016 Soil Vapor Monitoring and Vapor Intrusion Assessment Report for the Fort Smith, Arkansas, Site (Site) on behalf of Whirlpool Corporation, in accordance with the December 27, 2013, Remedial Action Decision Document (RADD) and the updated November 2015 RADD issued by the Arkansas Department of Environmental Quality (ADEQ). This report is Attachment B of the First Quarter 2016 Progress Report for the Site.

Whirlpool has been monitoring groundwater at the Site since 1989. In 2012, the potential for vapor intrusion from groundwater into buildings in the neighborhood north of the Site was evaluated using multiple lines of evidence in a human health risk assessment, which was presented as Appendix A of the Revised Risk Management Plan (RRMP) (ENVIRON 2013). The risk assessment included the use of groundwater and soil vapor data in the evaluation of the potential for vapor intrusion. In January 2016, the risk assessment was updated with data collected after the 2013 risk assessment (Ramboll Environ 2016). The use of multiple lines of evidence in these risk assessments is consistent with United States Environmental Protection Agency's (USEPA's) recommendations in its 2015 vapor intrusion guidance documents (USEPA 2015a and 2015b).

Data collected during the first quarter of 2016 from groundwater monitoring wells and water-filled vapor monitoring points are evaluated in this report, using the methods and assumptions described in the 2013 and 2016 risk assessment reports.

2 Soil Vapor Sample Collection

Soil vapor sampling was attempted on January 11, 12 and 13 and on February 18, 2016, following USEPA and industry standard methods, at five parcels in the neighborhood and one parcel south of the neighborhood. The sampling locations are shown on Figure 1. Water was encountered in all of the soil vapor monitoring points, except VP-9 which was dry. However, a soil vapor sample could not be collected from VP-9 after 7.5 hours of sustained vacuum. The field procedures used during these soil vapor sampling attempts were consistent with the methodology described in the First Quarter 2014 Soil Vapor Monitoring/ Vapor Intrusion Report (ENVIRON 2014a) and the modifications discussed in the Second Quarter 2014 Soil Vapor Monitoring/Vapor Intrusion Report (ENVIRON 2014b), except the sampling attempts on January 11 and 12 were not preceded by at least five consecutive days with less than 0.1 inch of rain: 0.35 inch of rain was recorded on January 7, 2016. The January 13 and February 18 sampling attempts were preceded by at least five consecutive days with less than 0.1 inch of rain. Precipitation data for the months of January and February are provided in Appendix B.

As discussed above, VP-9 did not contain water, but collection of a soil vapor sample was not possible. Perched water filled the vapor points at locations VP-5, VP-6, VP-7, VP-8, VP-10, VP-12, VP-14 and VP-15 and the water from these monitoring points could not be purged from the sampling train. Consistent with the modifications to the sampling plan proposed in the Second Quarter 2014 Soil Vapor Monitoring/Vapor Intrusion Report, water samples were collected from these vapor points. Table 1a summarizes the matrices encountered at the soil vapor monitoring points and the types of samples that were collected during quarterly events since 2014. The screen intervals and matrices encountered at each of the soil vapor monitoring points and the co-located monitoring wells at each parcel during the first quarter 2016 sampling event are summarized in Table 1b. Information regarding the installation of the vapor monitoring points can be found in the Fourth Quarter 2015 Soil Vapor Monitoring and Vapor Intrusion Assessment Report.

The volatile organic compound (VOC) results for the groundwater and perched water samples collected during First Quarter 2016 are discussed in Section 3. The analytical data reports for the samples are provided in Appendix A.

3 Results

3.1 Summary of Prior Assessment

Groundwater and soil vapor data collected prior to 2016 were evaluated and the results were presented in the RRMP, RADD[1] and the 2016 human health risk assessment.

The data collected over the groundwater plume in the neighborhood through Fourth Quarter 2015 have shown that TCE vapor from the groundwater is not indicative of a public health concern associated with vapor intrusion from groundwater. These findings corroborate the groundwater vapor intrusion modeling results which indicate vapor intrusion from groundwater is not occurring at levels that would present a public health concern.

3.2 Current Assessment

Groundwater data from monitoring wells (which have identifiers beginning with "MW-") in the neighborhood collected during First Quarter 2016 are summarized in Table 2a. Groundwater data from monitoring wells south of the neighborhood are summarized on Table 2b and are included in the report because these wells are near VP-14 and where the highest detected concentration of TCE has been found at the Site's property boundary. Figure 2 shows the locations of the groundwater monitoring wells that were sampled. Perched water data from soil vapor points sampled during First Quarter 2016 are included in Table 3. As discussed in Attachment A of this progress report, concentration trends for TCE in groundwater in the area for vapor intrusion assessment, including at MW-71 (Parcel 4) and MW-33R which replaced MW-33 (Parcel 5), have been stable to decreasing since May 2012.

The maximum detected groundwater concentrations among the monitoring wells in the neighborhood that were sampled in January 2016 are summarized in Table 4. These concentrations were used to calculate upper-bound risk estimates for potential vapor intrusion from groundwater into residences in the neighborhood, using the approach in Section 6.5.2 of the ADEQ-approved RRMP which was also used in the 2016 risk assessment. The calculation of and input parameters for these risk estimates are included as Appendix C. As shown in Table 4, the calculations resulted in upper-bound cumulative cancer risk and non-cancer hazard index (HI) estimates of 2×10^{-6} and 0.3, respectively. These risk estimates are below ADEQ's risk management limits of 10^{-4} and 1, respectively (ADEQ 2005). The calculations for risk estimates discussed in this section are included in Appendix C. Toxicity values used in the risk calculations are current as of September 2015.

Soil vapor monitoring points and groundwater monitoring wells were installed at five parcels in January 2015 and one additional parcel in June 2015 to provide additional lines of evidence to evaluate the potential for vapor intrusion from groundwater. Where soil vapor data could not be collected but perched water samples could be collected from the soil vapor monitoring points,

[1] Included in Appendix A of the April 2013 RRMP (ENVIRON 2013) and Section 3.A of the December 2013 Remedial Action Decision Document (ADEQ 2013).

these data were used to confirm the conclusions of the groundwater vapor intrusion risk assessment.

The following sections describe the evaluation of groundwater and perched water data from each of the six parcels. The parcels within the neighborhood are discussed in Section 3.2.1, the parcel south of the neighborhood is discussed in Section 3.2.2.

3.2.1 Parcels in the Neighborhood

3.2.1.1 Parcel 1

At Parcel 1, vapor intrusion risks were estimated based on the perched water data from VP-6, using the approach for groundwater (as described in Section 6.5.2 of the ADEQ-approved RRMP and the 2016 human health risk assessment) except the depth to water was increased to 14 feet below ground surface (bgs) to match the depth of the water sample at VP-6. As shown on Table 5, the upper-bound cumulative cancer risk and non-cancer HI estimates for perched water at VP-6 are 8×10^{-9} and 0.001, respectively, which are well within ADEQ's risk management limits for reasonable maximum exposure (RME) risks.

Upper-bound risk estimates were also calculated using the shallower perched water data from VP-5, which is located adjacent to VP-6. The shallower perched water is vertically disconnected and is not believed to be hydraulically connected to deeper perched water in this area and is an additional line of evidence for assessing the degree of vapor intrusion from groundwater. The risk estimates were calculated using the approach discussed above for groundwater, except the depth to water was decreased to 7.5 feet bgs. As shown in Table 5, the upper-bound cumulative cancer risk and non-cancer HI estimates for perched water at VP-5 are 9×10^{-9} and 0.002, respectively, which are well within ADEQ's risk management limits for RME risks.

These results confirm that vapor intrusion from groundwater does not pose an unacceptable risk at Parcel 1. Only perched water data were evaluated at Parcel 1 because a soil vapor sample could not be collected from the vapor monitoring points at this location.

3.2.1.2 Parcel 2

At Parcel 2, vapor intrusion risks were estimated based on the perched water data from VP-8 and the approach discussed above for groundwater, except the depth to water was decreased to 10.5 feet bgs. As shown in Table 5, the upper-bound cumulative cancer risk and non-cancer HI estimates for perched water at VP-8 are 1×10^{-8} and 0.003, respectively, which are well within ADEQ's risk management limits for RME risks.

Upper-bound risk estimates were also calculated using the shallower perched water data from VP-7, which is located adjacent to VP-8, as an additional line of evidence for assessing the degree of vapor intrusion from groundwater. The risk estimates were calculated using the approach discussed above for groundwater, except the depth to water was decreased to 5.5 feet bgs. As shown in Table 5, the upper-bound cumulative cancer risk and non-cancer HI estimates for perched water at VP-7 are 8×10^{-10} and 0.00001, respectively, which are well within ADEQ's risk management limits for RME risks.

These results confirm that vapor intrusion from groundwater does not pose an unacceptable risk at Parcel 2. Only perched water data were evaluated at Parcel 2 because a soil vapor sample could not be collected from the vapor monitoring points at this location.

3.2.1.3 Parcel 3

At Parcel 3, vapor intrusion risks were estimated based on the perched water data from VP-10 and the approach discussed above for groundwater, except the depth to water was decreased to 11 feet bgs. As shown in Table 5, the upper-bound cumulative cancer risk and non-cancer HI estimates for water at VP-10 are 3×10^{-6} and 0.6, respectively, which are within ADEQ's risk management limits for RME risks.

Upper-bound risks were also calculated using groundwater data from MW-176, which is located adjacent to VP-10, as an additional line of evidence. As shown in Table 5, the upper-bound cumulative cancer risk and non-cancer HI estimates for groundwater at MW-176 are 1×10^{-6} and 0.2, respectively, which are well within ADEQ's risk management limits for RME risks.

These results confirm that vapor intrusion from groundwater does not pose an unacceptable risk at Parcel 3. Only perched water and groundwater data were evaluated at Parcel 3 because a soil vapor sample could not be collected from the vapor monitoring points at this location.

3.2.1.4 Parcel 4

At Parcel 4, vapor intrusion risks were estimated based on the groundwater data from MW-71, which had the highest concentrations in groundwater from monitoring wells at this parcel and the approach discussed above for groundwater. As shown in Table 5, the upper-bound cumulative cancer risk and non-cancer HI estimates from groundwater at MW-71 are 6×10^{-7} and 0.1, respectively, which are well within ADEQ's risk management limits for RME risks.

In previous quarters, the vapor intrusion risks were calculated using groundwater results from MW-177 as an additional line of evidence. However, no VOCs were detected in this well during the first quarter of 2016. Certain VOCs, but not TCE, were detected in MW-181, which is shallower than MW-177. Therefore, upper-bound risk estimates were calculated using the shallow groundwater data from MW-181, as an additional line of evidence for assessing the degree of vapor intrusion from groundwater. The risk estimates were calculated using the groundwater from MW-181 and the approach discussed above for groundwater, except the depth to water was decreased to 6 feet bgs. As shown in Table 5, the upper-bound cumulative cancer risk and non-cancer HI estimates from groundwater at MW-181 are 6×10^{-11} and 0.00001, respectively, which are well within ADEQ's risk management limits for RME risks.

These results confirm that vapor intrusion from groundwater does not pose an unacceptable risk at Parcel 4. Further, TCE was non-detect in groundwater from MW-177 and MW-181, which is the main reason the risk estimates for groundwater from MW-181 are more than four orders of magnitude lower than those for groundwater from MW-71.

3.2.1.5 Parcel 6

At Parcel 6, vapor intrusion risks were estimated based on the groundwater data from MW-55R and the approach discussed above for groundwater. As shown on Table 5, the upper-bound cumulative cancer risk and non-cancer HI estimates for groundwater at MW-55R are 3×10^{-9} and 0.0004, respectively, which are well within ADEQ's risk management limits for RME risks.

Upper-bound risk estimates were also calculated using the perched water data from VP-15, which is the closest vapor point to MW-55R, as an additional line of evidence for assessing the degree of vapor intrusion from groundwater. The risk estimates were calculated using the approach discussed above for groundwater, except the depth to water was decreased to 5.5 feet bgs. As shown in Table 5, the upper-bound cumulative cancer risk and non-cancer HI estimates for perched water at VP-15 are 5×10^{-9} and 0.00005, respectively, which are well within ADEQ's risk management limits for RME risks.

These results do not indicate that vapor intrusion from groundwater would pose an unacceptable risk at Parcel 6.

3.2.2 South of the Neighborhood – Parcel 5

Risk estimates for potential vapor intrusion from groundwater into residential buildings were estimated based on the data collected at Parcel 5, which is a vacant non-residential property located south of Ingersoll Avenue and the residential neighborhood. Groundwater vapor intrusion risks were conservatively calculated using the groundwater data from MW-33R, which is near VP-14 at this parcel and the approach discussed above for groundwater. MW-33R has the highest detected concentration of TCE at wells in the vicinity of VP-14. As shown in Table 6, the upper-bound cumulative cancer risk and non-cancer HI estimates from groundwater at MW-33R are 3×10^{-6} and 0.6, respectively, which are below ADEQ's risk management limits for RME risks.

Upper-bound risk estimates were also calculated using shallow groundwater data from MW-180 (which is located within 40 feet of MW-33R) and the approach discussed above for groundwater, except the depth to groundwater was reduced to 6.5 feet bgs. MW-178 was not sampled this quarter because it was dry during the January 2016 sampling event. Shallow groundwater data was evaluated at this parcel because as discussed in prior quarterly reports a shallow soil vapor monitoring point (VP-13) could not be installed due to the presence of shallow water. As shown in Table 6, the upper-bound cumulative cancer risk and non-cancer HI estimates from groundwater at MW-180 are 4×10^{-8} and 0.009, respectively which are well within ADEQ's risk management limits for RME risks.

These risk estimates show that vapor intrusion from groundwater would not pose an unacceptable risk if there was a residence at Parcel 5.

4 Summary and Conclusion

- The concentrations of TCE in groundwater are stable or decreasing compared to previous reporting periods and historic results;
- Risk estimates for vapor intrusion from groundwater in the neighborhood are below ADEQ's risk management limits of 10^{-4} and 1 for cumulative cancer risk and non-cancer hazards, respectively; and
- Vapor intrusion modeling using perched water confirms the modeling results using VOC concentrations in water collected from groundwater monitoring wells.

5 References

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Tables

TABLE 1a
SUMMARY OF MATRICES ENCOUNTERED AND SAMPLED AT SOIL VAPOR MONITORING POINTS
Whirlpool Facility - Fort Smith, Arkansas

Quarter of Collection	Date of Collection	In Neighborhood										South of Neighborhood	
		Parcel 1		Parcel 2		Parcel 3			Parcel 4		Parcel 6	Parcel 5	
		VP-5	VP-6	VP-7	VP-8	OA/CS/IA	VP-9	VP-10	VP-1S+	VP-1D / VP-12#	VP-15	VP-2S+	VP-2D / VP-14#
1st Q 2016	1/2016	**Water**	**Water**	**Water**	**Water**	NS	NS	**Water**	--	**Water**	**Water**	--	**Water**
4th Q 2015	10/2015	**Water**	**Water**	**Air**	**Water**	**Air**	**Air**	**Water**	--	**Water**	**Water**	--	**Water**
3rd Q 2015	7/2015	**Water**	**Water**	**Air**	**Water**	NS	**Water**	**Water**	--	**Water**	**Water**	--	**Water**
2nd Q 2015	4/2015	**Water**	**Water**	**Air**	**Water**	**Air**	**Air**	**Water**	--	**Water**	--	--	*Water*
1st Q 2015	1/2015	**Air**	**Water**	**Air**	*Water*	--	**Air**	**Water**	--	**Water**	--	--	**Air**
4th Q 2014	10/2014	--	--	--	--	--	--	--	**Water**	*Air*	--	**Water**	**Water**
3rd Q 2014	9/2014	--	--	--	--	--	--	--	**Water**	*Air**	--	**Water**	**Water**
3rd Q 2014	7/2014	--	--	--	--	--	--	--	*Water*	*Water*	--	**Water**	**Water**
2nd Q 2014	5/2014	--	--	--	--	--	--	--	Water	**Air**	--	Water	Water
1st Q 2014	3/2014	--	--	--	--	--	--	--	**Air**	**Air**	--	Water	**Air**

Notes:
Shaded and **bolded** cells indicate that a sample was collected.
Italicized cells indicate that insufficient volume was available for sample collection.
Dashes ("--") indicate the location was not installed or was abandoned during this sampling event.
Prior to the Third Quarter 2014, water encountered in the soil vapor monitoring points was not sampled per the quarterly sampling plan.
"NS" indicates the location was not sampled during this sampling event.

* During the September 2014 sampling event, no air or water sample could be collected at VP-1D; a water sample was collected at the nearby port SV-04D to characterize VOC concentrations in the area.

+ During the First Quarter 2015, VP-1S and VP-2S were abandoned and installation of VP-11 and VP-13 was attempted in Parcels 4 and 5, respectively. However, because of water in the borings for VP-11 and VP-13, monitoring wells MW-181 and MW-180, respectively, were installed.

During the First Quarter 2015, locations VP-1D and VP-2D were replaced by VP-12 and VP-14, respectively.

TABLE 1b
SUMMARY OF SCREEN INTERVALS AT SOIL VAPOR MONITORING POINTS
Whirlpool Facility - Fort Smith, Arkansas

Area	Parcel	Location	Screen Interval (ft bgs)	Notes	1st Q 2016
					1/2016
In Neighborhood	1	MW-173	5-6		Water
In Neighborhood	1	VP-5	7.25-7.75	water in VP	Water
In Neighborhood	1	MW-174	10-11		Water
In Neighborhood	1	VP-6	13.75-14.25	water in VP	Water
In Neighborhood	2	VP-7	5.25-5.75	water in VP	Water
In Neighborhood	2	VP-8	10.25-10.75	water in VP	Water
In Neighborhood	2	MW-175	14-15		Water
In Neighborhood	3	VP-9	5.25-5.75	air sample attempted, water sample not viable (VP was dry)	NS
In Neighborhood	3	VP-10	10.75-11.25	water in VP	Water
In Neighborhood	3	MW-176	13.5-14.5		Water
In Neighborhood	4	MW-181 (VP-11)+	5.5-6.5		Water
In Neighborhood	4	MW-177	9-10		Water
In Neighborhood	4	MW-71	12		Water
In Neighborhood	4	VP-12 (VP-1D)*	12.25-12.75	water in VP	Water
In Neighborhood	6	VP-15	5.25-5.75	water in VP	Water
In Neighborhood	6	MW-55R	19-21		Water
South of Neighborhood	5	MW-180 (VP-13)+	6-7	water in VP	Water
South of Neighborhood	5	MW-178	7-8	well was dry	NS
South of Neighborhood	5	VP-14 (VP-2D)*	10.25-10.75	water in VP	Water
South of Neighborhood	5	MW-179	12-13		Water
South of Neighborhood	5	MW-33R	19-21		Water

Notes:

Shaded cells indicate that sample was used in risk assessment.

Italicized cells indicate that insufficient volume was available for sample collection.

Dashes ("--") indicate the location was not installed or was abandoned during this sampling event.

Prior to the Third Quarter 2014, water encountered in the soil vapor monitoring points was not sampled per the quarterly sampling plan.

"NS" indicates the location was not sampled during this sampling event.

* During the First Quarter 2015, locations VP-1D and VP-2D were replaced by VP-12 and VP-14, respectively.

+ During the First Quarter 2015, VP-1S and VP-2S were abandoned and installation of VP-11 and VP-13 was attempted in Parcels 4 and 5, respectively. However, because of water in the borings for VP-11 and VP-13, monitoring wells MW-181 and MW-180, respectively, were installed.

TABLE 2a
FIRST QUARTER 2016 GROUNDWATER VOC DATA FOR MONITORING WELLS IN THE NEIGHBORHOOD
Whirlpool Facility - Fort Smith, Arkansas

Location	MW-34R	MW-35R	MW-36R	MW-39R	MW-40R	MW-40R
Field Sample ID	MW-34R-201601	MW-35R-201601	MW-36R-201601	MW-39R-201601	MW-40R-201601	DUP-06-201601
Lab Sample ID	60210967001	60210967002	60210967003	60211085007	60211085001	60211085031
Sample Date	01/11/2016	01/11/2016	01/11/2016	01/12/2016	01/12/2016	01/12/2016
Comments						Field Duplicate
Volatile Organic Compounds						
Acetone	22.1 (1.9)	38.8 (1.9)	19.8 (1.9)	U (1.9)	U (1.9)	U (1.9)
Benzene	0.12 J (0.060)	U (0.060)	0.22 J (0.060)	U (0.060)	U (0.060)	U (0.060)
Bromoform	1.2 (0.070)	1.5 (0.070)	1.1 (0.070)	U (0.070)	U (0.070)	U (0.070)
Bromomethane	1.5 J (0.16)	31.5 (0.16)	54.9 (0.16)	U (0.16)	U (0.16)	U (0.16)
2-Butanone	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)
Carbon Disulfide	4.7 J (0.12)	U (0.12)	0.51 J (0.12)	U (0.12)	U (0.12)	U (0.12)
Chloroethane	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroform	U (0.14)	U (0.14)	0.23 J (0.14)	U (0.14)	U (0.14)	U (0.14)
Chloromethane	1.6 (0.080)	33.9 (0.080)	23.4 (0.080)	U (0.080)	U (0.080)	U (0.080)
1,1-Dichloroethene	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
cis-1,2-Dichloroethene	0.30 J (0.080)	0.34 J (0.080)	U (0.080)	U (0.080)	U (0.080)	0.22 J (0.080)
trans-1,2-Dichloroethene	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
2-Hexanone	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)
4-Methyl-2-pentanone	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)
Methylene Chloride	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Tetrachloroethene	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Toluene	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)
Trichloroethene	2.6 (0.17)	13.2 (0.17)	0.31 J (0.17)	U (0.17)	U (0.17)	0.28 J (0.17)
Vinyl Chloride	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)

Notes:

1 All concentrations are presented in µg/L (ppb).

2 Only chemicals with at least one detection in any water sample are shown.

U = Not detected

J = Estimated concentration

( ) = Detection limit

µg/L = Micrograms per liter

TABLE 2a
FIRST QUARTER 2016 GROUNDWATER VOC DATA FOR MONITORING WELLS IN THE NEIGHBORHOOD
Whirlpool Facility - Fort Smith, Arkansas

Location	MW-41R	MW-41R	MW-46R	MW-50R	MW-55R	MW-56R
Field Sample ID	MW-41R-201601	DUP-07-201601	MW-46R-201601	MW-50R-201601	MW-55R-201601	MW-56R-201601
Lab Sample ID	60211085005	60211085030	60211085008	60210974005	60211085009	60210974011
Sample Date	01/12/2016	01/12/2016	01/12/2016	01/11/2016	01/12/2016	01/11/2016
Comments		Field Duplicate				
Volatile Organic Compounds						
Acetone	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)
Benzene	U (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)	0.16 J (0.060)
Bromoform	U (0.070)	U (0.070)	0.91 J (0.070)	U (0.070)	U (0.070)	U (0.070)
Bromomethane	U (0.16)	U (0.16)	1.6 J (0.16)	U (0.16)	U (0.16)	1.0 J (0.16)
2-Butanone	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)
Carbon Disulfide	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	0.16 J (0.12)
Chloroethane	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroform	0.81 J (0.14)	0.81 J (0.14)	U (0.14)	U (0.14)	0.15 J (0.14)	0.70 J (0.14)
Chloromethane	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)
1,1-Dichloroethene	0.28 J (0.20)	0.30 J (0.20)	1.3 (0.20)	U (0.20)	U (0.20)	1.6 (0.20)
cis-1,2-Dichloroethene	40.9 (0.080)	40.1 (0.080)	10.9 (0.080)	U (0.080)	U (0.080)	19.2 (0.080)
trans-1,2-Dichloroethene	0.61 J (0.20)	U (0.20)	0.42 J (0.20)	U (0.20)	U (0.20)	0.28 J (0.20)
2-Hexanone	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)
4-Methyl-2-pentanone	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)
Methylene Chloride	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Tetrachloroethene	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Toluene	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)
Trichloroethene	59.9 (0.17)	56.6 (0.17)	432 (0.85)	0.42 J (0.17)	0.26 J (0.17)	408 (0.85)
Vinyl Chloride	0.38 J (0.13)	0.35 J (0.13)	0.56 J (0.13)	U (0.13)	U (0.13)	0.32 J (0.13)

Notes:

1 All concentrations are presented in µg/L (ppb).

2 Only chemicals with at least one detection in any water sample are shown.

U = Not detected

J = Estimated concentration

( ) = Detection limit

µg/L = Micrograms per liter

TABLE 2a
FIRST QUARTER 2016 GROUNDWATER VOC DATA FOR MONITORING WELLS IN THE NEIGHBORHOOD
Whirlpool Facility - Fort Smith, Arkansas

Location	MW-57R	MW-58R	MW-58R	MW-60R	MW-61R	MW-62R
Field Sample ID	MW-57R-201601	MW-58R-201601	DUP-10-201601	MW-60R-201601	MW-61R-201601	MW-62R-201601
Lab Sample ID	60210974012	60211085020	60211085033	60210974006	60210924003	60210974010
Sample Date	01/11/2016	01/12/2016	01/12/2016	01/11/2016	01/08/2016	01/11/2016
Comments			Field Duplicate			
Volatile Organic Compounds						
Acetone	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)
Benzene	U (0.060)	U (0.060)	U (0.060)	0.12 J (0.060)	U (0.060)	U (0.060)
Bromoform	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)
Bromomethane	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)
2-Butanone	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)
Carbon Disulfide	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
Chloroethane	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroform	0.23 J (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	0.33 J (0.14)
Chloromethane	U (0.080)	U (0.080)	U (0.080)	U (0.080)	0.27 J (0.080)	U (0.080)
1,1-Dichloroethene	1.7 (0.20)	1.9 (0.20)	1.8 (0.20)	U (0.20)	U (0.20)	U (0.20)
cis-1,2-Dichloroethene	15.7 (0.080)	28.7 (0.080)	29.4 (0.080)	U (0.080)	4.6 (0.080)	U (0.080)
trans-1,2-Dichloroethene	0.26 J (0.20)	0.24 J (0.20)	0.25 J (0.20)	U (0.20)	U (0.20)	U (0.20)
2-Hexanone	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)
4-Methyl-2-pentanone	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)
Methylene Chloride	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Tetrachloroethene	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Toluene	U (0.17)	U (0.17)	U (0.17)	U (0.17)	0.23 J (0.17)	U (0.17)
Trichloroethene	422 (0.85)	312 (0.85)	319 (0.85)	0.22 J (0.17)	3.9 (0.17)	U (0.17)
Vinyl Chloride	0.48 J (0.13)	0.67 J (0.13)	0.66 J (0.13)	U (0.13)	U (0.13)	U (0.13)

Notes:

1 All concentrations are presented in µg/L (ppb).

2 Only chemicals with at least one detection in any water sample are shown.

U = Not detected

J = Estimated concentration

( ) = Detection limit

µg/L = Micrograms per liter

TABLE 2a
FIRST QUARTER 2016 GROUNDWATER VOC DATA FOR MONITORING WELLS IN THE NEIGHBORHOOD
Whirlpool Facility - Fort Smith, Arkansas

Location	MW-63R	MW-65	MW-66	MW-67R	MW-68	MW-71
Field Sample ID	MW-63R-201601	MW-65-201601	MW-66-201601	MW-67R-201601	MW-68-201601	MW-71-201601
Lab Sample ID	60211085023	60210967004	60210974008	60210974007	60211085010	60210974013
Sample Date	01/12/2016	01/11/2016	01/11/2016	01/11/2016	01/12/2016	01/11/2016
Comments						
Volatile Organic Compounds						
Acetone	U (1.9)	59.3 (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)
Benzene	U (0.060)	0.34 J (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)
Bromoform	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)
Bromomethane	U (0.16)	1.2 J (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)
2-Butanone	U (0.59)	5.5 J (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)
Carbon Disulfide	U (0.12)	0.13 J (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
Chloroethane	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroform	0.65 J (0.14)	U (0.14)	U (0.14)	0.15 J (0.14)	U (0.14)	U (0.14)
Chloromethane	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)
1,1-Dichloroethene	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	1.3 (0.20)
cis-1,2-Dichloroethene	0.39 J (0.080)	0.32 J (0.080)	U (0.080)	U (0.080)	U (0.080)	6.1 (0.080)
trans-1,2-Dichloroethene	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
2-Hexanone	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)
4-Methyl-2-pentanone	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)
Methylene Chloride	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Tetrachloroethene	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Toluene	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)
Trichloroethene	3.2 (0.17)	14.5 (0.17)	0.53 J (0.17)	U (0.17)	U (0.17)	171 (0.17)
Vinyl Chloride	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	0.40 J (0.13)

Notes:

1 All concentrations are presented in µg/L (ppb).

2 Only chemicals with at least one detection in any water sample are shown.

U = Not detected

J = Estimated concentration

( ) = Detection limit

µg/L = Micrograms per liter

TABLE 2a
FIRST QUARTER 2016 GROUNDWATER VOC DATA FOR MONITORING WELLS IN THE NEIGHBORHOOD
Whirlpool Facility - Fort Smith, Arkansas

Location	MW-81	MW-82	MW-96	MW-97	MW-98	MW-99
Field Sample ID	MW-81-201601	MW-82-201601	MW-96-201601	MW-97-201601	MW-98-201601	MW-99-201601
Lab Sample ID	60210967005	60210967006	60211085018	60211085016	60210969003	60210969001
Sample Date	01/11/2016	01/11/2016	01/12/2016	01/12/2016	01/11/2016	01/11/2016
Comments						
Volatile Organic Compounds						
Acetone	20.8 (1.9)	31.4 (1.9)	U (1.9)	U (1.9)	U (1.9)	U (1.9)
Benzene	0.10 J (0.060)	0.17 J (0.060)	U (0.060)	U (0.060)	U (0.060)	U (0.060)
Bromoform	U (0.070)	0.15 J (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)
Bromomethane	11.6 (0.16)	5.2 (0.16)	U (0.16)	U (0.16)	U (0.16)	1.3 J (0.16)
2-Butanone	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)
Carbon Disulfide	U (0.12)	0.84 J (0.12)	U (0.12)	U (0.12)	U (0.12)	U (0.12)
Chloroethane	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroform	0.18 J (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)
Chloromethane	3.5 (0.080)	5.4 (0.080)	U (0.080)	U (0.080)	0.17 J (0.080)	0.12 J (0.080)
1,1-Dichloroethene	0.48 J (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
cis-1,2-Dichloroethene	3.9 (0.080)	0.18 J (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)
trans-1,2-Dichloroethene	0.48 J (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
2-Hexanone	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)
4-Methyl-2-pentanone	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)
Methylene Chloride	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Tetrachloroethene	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Toluene	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)	U (0.17)
Trichloroethene	157 (0.17)	5.6 (0.17)	U (0.17)	U (0.17)	U (0.17)	0.21 J (0.17)
Vinyl Chloride	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)	U (0.13)

Notes:

1 All concentrations are presented in µg/L (ppb).

2 Only chemicals with at least one detection in any water sample are shown.

U = Not detected

J = Estimated concentration

( ) = Detection limit

µg/L = Micrograms per liter

TABLE 2a
FIRST QUARTER 2016 GROUNDWATER VOC DATA FOR MONITORING WELLS IN THE NEIGHBORHOOD
Whirlpool Facility - Fort Smith, Arkansas

Location	MW-173	MW-174	MW-175	MW-176	MW-177	MW-181
Field Sample ID	MW-173-201601	MW-174-201601	MW-175-201601	MW-176-201601	MW-177-201601	MW-181-201601
Lab Sample ID	60211266002	60211266001	60210979001	60211267001	60210978002	60210978001
Sample Date	01/12/2016	01/12/2016	01/11/2016	01/12/2016	01/11/2016	01/11/2016
Comments						
Volatile Organic Compounds						
Acetone	81.4 J (1.9)	U (1.9)	23.4 (1.9)	U (1.9)	U (1.9)	U (1.9)
Benzene	0.89 J (0.060)	0.13 J (0.060)	0.16 J (0.060)	0.11 J (0.060)	U (0.060)	U (0.060)
Bromoform	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)
Bromomethane	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)
2-Butanone	21.2 (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)
Carbon Disulfide	2.0 J (0.12)	U (0.12)	0.15 J (0.12)	U (0.12)	U (0.12)	U (0.12)
Chloroethane	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroform	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)	U (0.14)
Chloromethane	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)
1,1-Dichloroethene	U (0.20)	U (0.20)	U (0.20)	4.7 (0.20)	U (0.20)	U (0.20)
cis-1,2-Dichloroethene	U (0.080)	U (0.080)	1.1 (0.080)	125 (0.080)	U (0.080)	U (0.080)
trans-1,2-Dichloroethene	U (0.20)	U (0.20)	U (0.20)	0.96 J (0.20)	U (0.20)	U (0.20)
2-Hexanone	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)
4-Methyl-2-pentanone	0.99 J (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)
Methylene Chloride	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Tetrachloroethene	U (0.10)	U (0.10)	U (0.10)	0.17 J (0.10)	U (0.10)	0.28 J (0.10)
Toluene	0.27 J (0.17)	U (0.17)	U (0.17)	0.36 J (0.17)	U (0.17)	U (0.17)
Trichloroethene	U (0.17)	U (0.17)	52.6 (0.17)	306 (1.7)	U (0.17)	U (0.17)
Vinyl Chloride	U (0.13)	U (0.13)	U (0.13)	1.3 (0.13)	U (0.13)	U (0.13)

Notes:

1 All concentrations are presented in µg/L (ppb).

2 Only chemicals with at least one detection in any water sample are shown.

U = Not detected

J = Estimated concentration

( ) = Detection limit

µg/L = Micrograms per liter

TABLE 2b
FIRST QUARTER 2016 GROUNDWATER VOC DATA FOR MONITORING WELLS SOUTH OF THE NEIGHBORHOOD
Whirlpool Facility - Fort Smith, Arkansas

Location	MW-33R	MW-179	MW-180
Field Sample ID	MW-33R-201601	MW-179-201601	MW-180-201601
Lab Sample ID	60210924004	60211269001	60211330001
Sample Date	01/08/2016	01/13/2016	01/14/2016
Comments			
Volatile Organic Compounds			
Acetone	U (1.9)	2.7 J (1.9)	U (1.9)
Benzene	U (0.060)	U (0.060)	U (0.060)
Bromoform	0.31 J (0.070)	U (0.070)	U (0.070)
Bromomethane	1.1 J (0.16)	U (0.16)	U (0.16)
2-Butanone	U (0.59)	U (0.59)	U (0.59)
Carbon Disulfide	U (0.12)	U (0.12)	U (0.12)
Chloroethane	U (0.15)	U (0.15)	U (0.15)
Chloroform	0.30 J (0.14)	U (0.14)	U (0.14)
Chloromethane	0.37 J (0.080)	U (0.080)	U (0.080)
1,1-Dichloroethene	0.54 J (0.20)	0.48 J (0.20)	U (0.20)
cis-1,2-Dichloroethene	7.6 (0.080)	1.1 (0.080)	1.5 (0.080)
trans-1,2-Dichloroethene	0.86 J (0.20)	U (0.20)	0.27 J (0.20)
2-Hexanone	U (1.2)	U (1.2)	U (1.2)
4-Methyl-2-pentanone	U (0.42)	U (0.42)	U (0.42)
Methylene Chloride	U (0.15)	0.56 J (0.15)	0.63 J (0.15)
Tetrachloroethene	0.13 J (0.10)	1.1 (0.10)	0.25 J (0.10)
Toluene	U (0.17)	U (0.17)	U (0.17)
Trichloroethene	724 (1.7)	30.6 (0.17)	10.6 (0.17)
Vinyl Chloride	U (0.13)	U (0.13)	U (0.13)

Notes:

1 All concentrations are presented in µg/L (ppb).

2 Only chemicals with at least one detection in any water sample are shown.

U = Not detected

J = Estimated concentration

( ) = Detection limit

µg/L = Micrograms per liter

TABLE 3
FIRST QUARTER 2016 WATER DATA FROM SOIL VAPOR MONITORING POINTS
Whirlpool Facility - Fort Smith, Arkansas

Parcel	1	1	2	2	3	4	5	6
Location	VP-5	VP-6	VP-7	VP-8	VP-10	VP-12	VP-14	VP-15
Field Sample ID	VP-05-201601	VP-06-201601	VP-07-201601	VP-08-201601	VP-10-201601	VP-12-201601	VP-14-201601	VP-15-201601
Lab Sample ID	60211266004	60211266003	60210979003	60210979002	60211267002	60210978003	60211269002	60210981001
Collection Depth (ft bgs)	7.25 - 7.75	13.75-14.25	5.25-5.75	10.25-10.75	10.75-11.25	12.25-12.75	10.25-10.75	5.5 - 6
Sample Date	01/12/2016	01/12/2016	01/11/2016	01/11/2016	01/12/2016	01/11/2016	01/13/2016	01/11/2016
Comments								
Volatile Organic Compounds								
Acetone	158 J (1.9)	49.0 J (1.9)	29.4 (1.9)	198 (1.9)	4.1 J (1.9)	U (1.9)	4.3 J (1.9)	U (1.9)
Benzene	0.90 J (0.060)	0.72 J (0.060)	0.17 J (0.060)	0.68 J (0.060)	0.32 J (0.060)	U (0.060)	U (0.060)	1.1 (0.060)
Bromoform	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)	U (0.070)
Bromomethane	4.9 J (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)	U (0.16)
2-Butanone	31.4 (0.59)	6.2 J (0.59)	5.0 J (0.59)	32.8 (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)
Carbon Disulfide	0.22 J (0.12)	0.75 J (0.12)	U (0.12)	U (0.12)	U (0.12)	0.15 J (0.12)	U (0.12)	U (0.12)
Chloroethane	2.7 (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroform	0.35 J (0.14)	U (0.14)	U (0.14)	U (0.14)	5.0 (0.14)	0.19 J (0.14)	1.1 (0.14)	U (0.14)
Chloromethane	2.8 (0.080)	U (0.080)	0.21 J (0.080)	0.33 J (0.080)	U (0.080)	U (0.080)	U (0.080)	U (0.080)
1,1-Dichloroethene	U (0.20)	U (0.20)	U (0.20)	U (0.20)	1.0 (0.20)	U (0.20)	0.77 J (0.20)	U (0.20)
cis-1,2-Dichloroethene	U (0.080)	0.20 J (0.080)	U (0.080)	U (0.080)	8.6 (0.080)	U (0.080)	2.3 (0.080)	U (0.080)
trans-1,2-Dichloroethene	U (0.20)	U (0.20)	U (0.20)	U (0.20)	0.26 J (0.20)	U (0.20)	U (0.20)	U (0.20)
2-Hexanone	11.6 (1.2)	U (1.2)	U (1.2)	8.6 J (1.2)	U (1.2)	U (1.2)	U (1.2)	U (1.2)
4-Methyl-2-pentanone	3.4 J (0.42)	0.53 J (0.42)	0.83 J (0.42)	0.79 J (0.42)	U (0.42)	U (0.42)	U (0.42)	U (0.42)
Methylene Chloride	0.76 J (0.15)	U (0.15)	U (0.15)	U (0.15)	0.94 J (0.15)	U (0.15)	0.77 J (0.15)	U (0.15)
Tetrachloroethene	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)	U (0.10)
Toluene	0.46 J (0.17)	0.23 J (0.17)	U (0.17)	0.42 J (0.17)	0.77 J (0.17)	U (0.17)	U (0.17)	U (0.17)
Trichloroethene	U (0.17)	1.3 (0.17)	U (0.17)	3.2 (0.17)	823 (0.85)	U (0.17)	65.6 (0.17)	U (0.17)
Vinyl Chloride	U (0.13)	U (0.13)	U (0.13)	U (0.13)	0.27 J (0.13)	U (0.13)	U (0.13)	U (0.13)

Notes:

1 All concentrations are presented in µg/L (ppb).

2 Only chemicals with at least one detection in any water sample are shown.

U = Not detected

J = Estimated concentration

( ) = Method detection limit

µg/L = Micrograms per liter

TABLE 4
UPPER-BOUND VAPOR INTRUSION RISK ESTIMATES
BASED ON FIRST QUARTER 2016 GROUNDWATER DATA IN THE NEIGHBORHOOD
Whirlpool Facility - Fort Smith, Arkansas

Chem Group	Chemical	CASRN	Maximum Detected Concentration in Groundwater in Neighborhood (mg/L)	Location of Maximum Detected Concentration in Groundwater in Neighborhood	Residential VI	
					Risk	HQ
VOC	Acetone	67-64-1	8.14E-02	MW-173		5.4E-07
VOC	Benzene	71-43-2	8.90E-04	MW-173	3.9E-09	3.9E-05
VOC	Bromoform	75-25-2	1.50E-03	MW-35R	1.6E-10	
VOC	Bromomethane	74-83-9	5.49E-02	MW-36R		1.7E-02
VOC	2-Butanone	78-93-3	2.12E-02	MW-173		8.3E-07
VOC	Carbon Disulfide	75-15-0	4.70E-03	MW-34R		1.9E-05
VOC	Chloroform	67-66-3	8.10E-04	MW-41R	9.7E-09	2.0E-05
VOC	Chloromethane	74-87-3	3.39E-02	MW-35R		5.9E-04
VOC	1,1-Dichloroethene	75-35-4	4.70E-03	MW-176		6.1E-05
VOC	cis-1,2-Dichloroethene	156-59-2	1.25E-01	MW-176		
VOC	trans-1,2-Dichloroethene	156-60-5	9.60E-04	MW-176		
VOC	4-Methyl-2-pentanone	108-10-1	9.90E-04	MW-173		7.5E-08
VOC	Tetrachloroethene	127-18-4	2.80E-04	MW-181	5.3E-11	1.2E-05
VOC	Toluene	108-88-3	3.60E-04	MW-176		9.2E-08
VOC	Trichloroethene	79-01-6	4.32E-01	MW-46R	1.6E-06	3.3E-01
VOC	Vinyl Chloride	75-01-4	1.30E-03	MW-176	2.7E-08	4.1E-05
				Cumulative Risk and HI:	2E-06	3E-01

Note:
Only VOCs detected in monitoring wells in the neighborhood are shown.
Detected concentrations are from samples collected from groundwater monitoring wells in the First Quarter of 2016.
Risks were calculated using the model derived by Johnson & Ettinger (1991), as discussed in Section 3.3.1 of the April 2013 Revised Risk Management Plan.

TABLE 5
EVALUATION OF VOCS IN WATER AT PARCELS IN THE NEIGHBORHOOD
Whirlpool Facility - Fort Smith, Arkansas

Chem Group	Chemical	CASRN	Parcel 1				Parcel 2				Parcel 3				Parcel 4				Parcel 6			
			7.5 ft bgs		14 ft bgs		5.5 ft bgs		10.5 ft bgs		11 ft bgs		12 ft bgs		6 ft bgs		12 ft bgs		5.5 ft bgs		12 ft bgs	
			VP-5		VP-6		VP-7		VP-8		VP-10		MW-176		MW-181		MW-71		VP-15		MW-55R	
			Perched Water		Perched Water		Perched Water		Perched Water		Perched Water		Groundwater		Shallow Groundwater		Groundwater		Perched Water		Groundwater	
			Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ
VOC	Acetone	67-64-1		1.7E-06		2.8E-07		4.4E-07		1.5E-06		2.9E-08										
VOC	Benzene	71-43-2	4.2E-09	4.2E-05	3.1E-09	3.1E-05	8.3E-10	8.3E-06	3.0E-09	3.0E-05	1.4E-09	1.4E-05	4.9E-10	4.8E-06					5.4E-09	5.4E-05		
VOC	Bromomethane	74-83-9		1.6E-03																		
VOC	2-Butanone	78-93-3		1.9E-06		2.1E-07		4.4E-07		1.4E-06												
VOC	Carbon Disulfide	75-15-0		8.8E-07		2.9E-06																
VOC	Chloroethane	75-00-3		8.7E-07																		
VOC	Chloroform	67-66-3	4.5E-09	9.0E-06							6.1E-08	1.2E-04									1.8E-09	3.6E-06
VOC	Chloromethane	74-87-3		4.9E-05				3.8E-06		5.7E-06												
VOC	1,1-Dichloroethene	75-35-4										1.3E-05		6.1E-05				1.7E-05				
VOC	cis-1,2-Dichloroethene	156-59-2																				
VOC	trans-1,2-Dichloroethene	156-60-5																				
VOC	2-Hexanone	591-78-6		1.2E-04						7.0E-05												
VOC	4-Methyl-2-pentanone	108-10-1		3.6E-07		3.7E-08		1.2E-07		6.5E-08												
VOC	Methylene Chloride	75-09-2	9.6E-12	1.5E-06							1.1E-11	1.7E-06										
VOC	Tetrachloroethene	127-18-4											3.2E-11	7.2E-06	5.5E-11	1.2E-05						
VOC	Toluene	108-88-3		1.2E-07		5.8E-08				1.1E-07		2.0E-07		9.2E-08								
VOC	Trichloroethene	79-01-6			4.8E-09	9.9E-04			1.2E-08	2.5E-03	3.1E-06	6.4E-01	1.1E-06	2.4E-01			6.4E-07	1.3E-01			9.7E-10	2.0E-04
VOC	Vinyl Chloride	75-01-4									5.6E-09	8.6E-06	2.7E-08	4.1E-05			8.2E-09	1.3E-05				
	Cumulative Risk and HI:		9E-09	2E-03	8E-09	1E-03	8E-10	1E-05	1E-08	3E-03	3E-06	6E-01	1E-06	2E-01	6E-11	1E-05	6E-07	1E-01	5E-09	5E-05	3E-09	2E-04

Notes:

ND -- Not detected.

Only VOCs detected in the First Quarter 2016 samples at locations listed on the table are shown.

Risk and HQ estimates were not calculated for detected chemicals with inadequate toxicity or physical/chemical parameters or where chemical concentrations were non-detect.

Risks based on soil vapor data were calculated using USEPA's default attenuation factor for subslab gas to indoor air of 0.03, as discussed in Section 6.8.2 of the April 2013 Revised Risk Management Plan.

Risks based on concentrations measured in groundwater were calculated using the model derived by Johnson & Ettinger (1991), as discussed in Section 3.3.1 of the April 2013 Revised Risk Management Plan.

Risks based on concentrations measured in water from the soil vapor ports or shallow groundwater were calculated using the same approach used for groundwater, except the depth was assumed to be the depth of the port or the depth of the screen, respectively, as discussed in Section 3 of the Third Quarter 2015 Vapor Intrusion Report.

Cumulative cancer risk and HI estimates were below Arkansas Department of Environmental Quality (ADEQ)'s risk limits (1E-5 and 1, respectively).

TABLE 6
EVALUATION OF VOCS IN WATER AT PARCEL 5 (SOUTH OF NEIGHBORHOOD)
Whirlpool Facility - Fort Smith, Arkansas

Chem Group	Chemical	CASRN	6.5 ft bgs MW-180 Shallow Groundwater		12 ft bgs MW-33R Groundwater	
			Risk	HQ	Risk	HQ
VOC	Bromoform	75-25-2			3.3E-11	
VOC	Bromomethane	74-83-9				3.4E-04
VOC	Chloroform	67-66-3			3.6E-09	7.3E-06
VOC	Chloromethane	74-87-3				6.4E-06
VOC	1,1-Dichloroethene	75-35-4				7.0E-06
VOC	cis-1,2-Dichloroethene	156-59-2				
VOC	trans-1,2-Dichloroethene	156-60-5				
VOC	Methylene Chloride	75-09-2	8.3E-12	1.3E-06		
VOC	Tetrachloroethene	127-18-4	4.9E-11	1.1E-05	2.5E-11	5.5E-06
VOC	Trichloroethene	79-01-6	4.2E-08	8.6E-03	2.7E-06	5.6E-01
	Cumulative Risk and HI:		4E-08	9E-03	3E-06	6E-01

Notes:

Only VOCs detected in the First Quarter 2016 samples at locations listed on the table are shown.

Risk and HQ estimates were not calculated for detected chemicals with inadequate toxicity or physical/chemical parameters or where chemical concentrations were non-detect.

Risks based on concentrations measured in groundwater were calculated using the model derived by Johnson & Ettinger (1991), as discussed in Section 3.3.1 of the April 2013 Revised Risk Management Plan.

Risks based on concentrations measured in shallow groundwater were calculated using the same approach used for groundwater, except the depth was assumed to be the depth of the screen, as discussed in Section 3 of the Third Quarter 2015 Vapor Intrusion Report.

Cumulative cancer risk and HI estimates were below Arkansas Department of Environmental Quality (ADEQ)'s risk limits (1E-5 and 1, respectively).

Figures



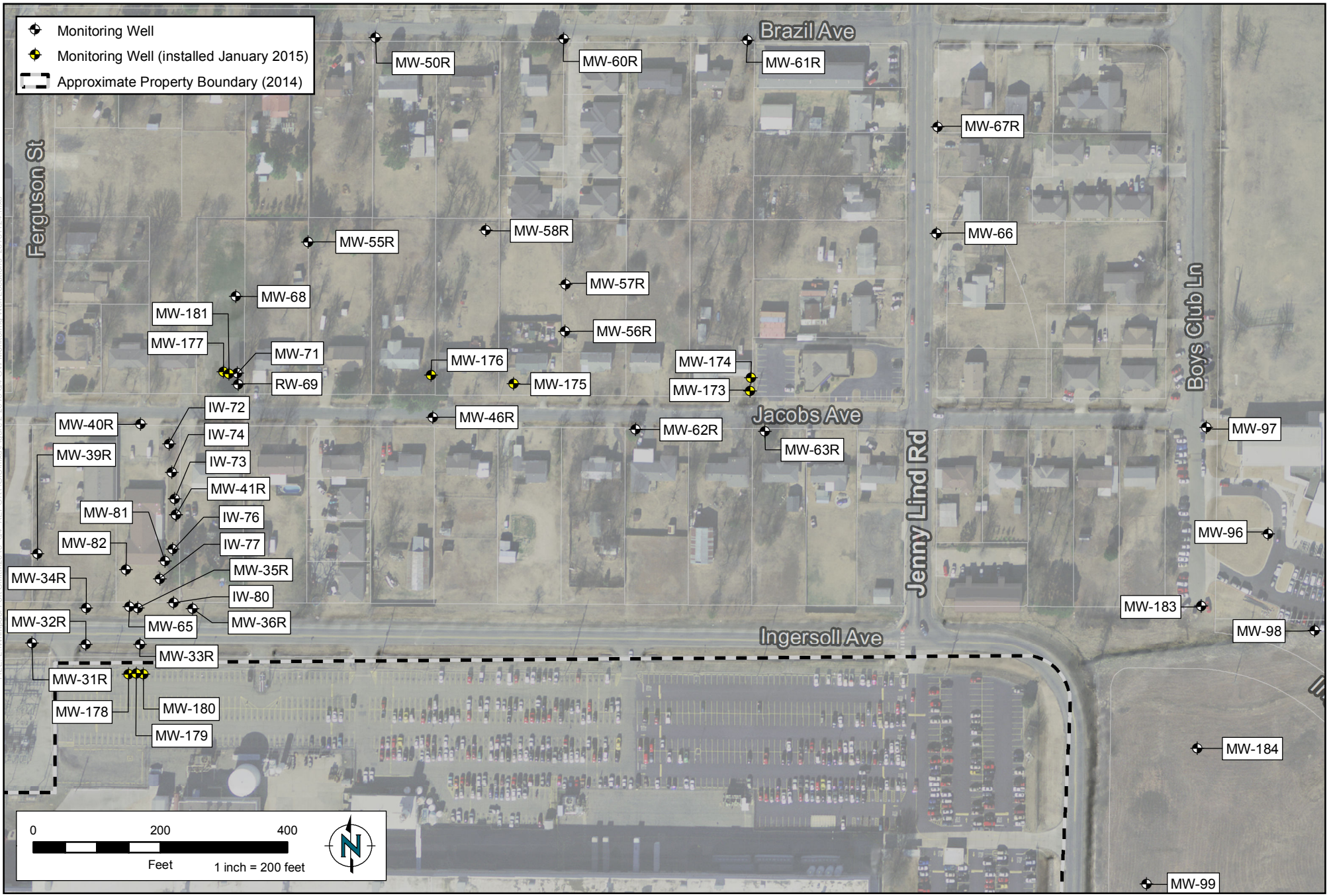
RAMBOLL ENVIRON

SHALLOW GROUNDWATER MONITORING WELLS AND VAPOR POINTS SAMPLED DURING FIRST QUARTER 2016

Whirlpool Facility - Fort Smith, Arkansas

Figure 1

DRAFTED BY: FK | DATE: 03/11/2016 | PROJECT: 34375000



FILE: L:\Whirlpool Fort Smith\2015_Q4_REPORT\GIS\mxd\Figure 2 2015 Q4 GW Monitoring Well Locations_20151124.mxd

RAMBOLL ENVIRON	**GROUNDWATER MONITORING WELL LOCATIONS** Whirlpool Facility - Fort Smith, Arkansas	Figure 2	
DRAFTED BY: FK	DATE: 11/24/2015		PROJECT: 3437470A

Appendix A
Laboratory Analytical Data

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 26, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH AR
Pace Project No.: 60210924

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 09, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH AR
Pace Project No.: 60210924

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

Dallas Certification IDs:

400 West Bethany Dr Suite 190, Allen, TX 75013
EPA# TX00074
Texas Certification #: T104704232-15-12
Texas Certification #: T104704232-14-8
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 2014-055
Louisiana Certification #: 02007

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FORT SMITH AR
Pace Project No.: 60210924

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60210924001	**TMW-10-201601**	Water	01/08/16 10:15	01/09/16 09:35
60210924002	**TMW-11-201601**	Water	01/08/16 10:05	01/09/16 09:35
60210924003	**MW-61R-201601**	Water	01/08/16 09:50	01/09/16 09:35
60210924004	**MW-33R-201601**	Water	01/08/16 13:10	01/09/16 09:35
60210924005	**FB-01-201601**	Water	01/08/16 14:40	01/09/16 09:35
60210924006	**TB-03-201601**	Water	01/08/16 08:00	01/09/16 09:35
60210924007	**MW-187-201601**	Water	01/08/16 13:25	01/09/16 09:35
60210924008	**MW-188-201601**	Water	01/08/16 13:20	01/09/16 09:35
60210924009	**TMW-11-201601**	Water	01/08/16 10:05	01/09/16 09:35
60210924010	**MW-61R-201601**	Water	01/08/16 09:50	01/09/16 09:35
60210924011	**MW-33R-201601**	Water	01/08/16 13:10	01/09/16 09:35
60210924012	**MW-187-201601**	Water	01/08/16 13:25	01/09/16 09:35
60210924013	**MW-188-201601**	Water	01/08/16 13:20	01/09/16 09:35

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60210924

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60210924001	**TMW-10-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210924002	**TMW-11-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210924003	**MW-61R-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210924004	**MW-33R-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210924005	**FB-01-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210924006	**TB-03-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210924007	**MW-187-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210924008	**MW-188-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210924009	**TMW-11-201601**	EPA 6010	TDS	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	RAB	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210924010	**MW-61R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	TDS	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	RAB	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210924011	**MW-33R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	TDS	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60210924

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	RAB	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210924012	**MW-187-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	TDS	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	RAB	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210924013	**MW-188-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	TDS	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	RAB	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **EPA 8015 - Alcohol**
Description: Alcohol by Direct Inject GCFID
Client: Environ_AR
Date: January 26, 2016

General Information:
4 samples were analyzed for EPA 8015 - Alcohol. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 26, 2016

General Information:
8 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73687

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **SM 3500-Fe B#4**
Description: Iron, Ferric (Calculation)
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for SM 3500-Fe B#4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Ferrous Fe performed in the field
- QC Batch: WET / 59732

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA recommended holding time.
- MW-187-201601 (Lab ID: 60210924012)
- MW-188-201601 (Lab ID: 60210924013)
- MW-33R-201601 (Lab ID: 60210924011)
- MW-61R-201601 (Lab ID: 60210924010)
- TMW-11-201601 (Lab ID: 60210924009)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Field pH
- QC Batch: WET / 59734

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Environ_AR
Date: January 26, 2016

General Information:
4 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **EPA 350.1**
Description: 350.1 Ammonia
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37683

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210860004,60210861003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1695607)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37663

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210924011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1695251)
  - Nitrogen, NO2 plus NO3
  - Nitrogen, Nitrate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **SM 4500-CO2 D**
Description: Total Carbon Dioxide Calc
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for SM 4500-CO2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **SM 5310C**
Description: 5310C TOC
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: Environ_AR
Date: January 26, 2016

General Information:
2 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60210924

Method: **SM 4500-P E**
Description: SM4500P-E, Total Phosphorus
Client: Environ_AR
Date: January 26, 2016

General Information:
5 samples were analyzed for SM 4500-P E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with SM4500-P B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/10248

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210924012,7537074001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 195390)
  - Phosphate as P04

R1: RPD value was outside control limits.

- MSD (Lab ID: 195389)
  - Phosphate as P04
- MSD (Lab ID: 195391)
  - Phosphate as P04

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: TMW-10-201601 **Lab ID: 60210924001** Collected: 01/08/16 10:15 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/11/16 18:22	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/11/16 18:22	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/11/16 18:22	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/11/16 18:22	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/11/16 18:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/11/16 18:22	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/11/16 18:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/11/16 18:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/11/16 18:22	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/11/16 18:22	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/11/16 18:22	67-66-3	
Chloromethane	**0.14J**	ug/L	1.0	0.080	1		01/11/16 18:22	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/11/16 18:22	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/11/16 18:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/11/16 18:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 18:22	75-35-4	
cis-1,2-Dichloroethene	**3.1**	ug/L	1.0	0.080	1		01/11/16 18:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 18:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/11/16 18:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/11/16 18:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/11/16 18:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/11/16 18:22	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/11/16 18:22	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/11/16 18:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/11/16 18:22	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/11/16 18:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/11/16 18:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/11/16 18:22	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/11/16 18:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/11/16 18:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/11/16 18:22	79-00-5	
Trichloroethene	**103**	ug/L	1.0	0.17	1		01/11/16 18:22	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/11/16 18:22	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/11/16 18:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/11/16 18:22	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/11/16 18:22	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/11/16 18:22	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/11/16 18:22		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: TMW-11-201601 **Lab ID: 60210924002** Collected: 01/08/16 10:05 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**1120**	ug/L	50.0	9.4	5		01/11/16 18:51	67-64-1	
Benzene	**0.11J**	ug/L	1.0	0.060	1		01/11/16 18:37	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/11/16 18:37	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/11/16 18:37	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/11/16 18:37	74-83-9	
2-Butanone (MEK)	**902**	ug/L	10.0	0.59	1		01/11/16 18:37	78-93-3	
Carbon disulfide	**0.68J**	ug/L	5.0	0.12	1		01/11/16 18:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/11/16 18:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/11/16 18:37	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/11/16 18:37	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/11/16 18:37	67-66-3	
Chloromethane	**0.31J**	ug/L	1.0	0.080	1		01/11/16 18:37	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/11/16 18:37	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/11/16 18:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/11/16 18:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 18:37	75-35-4	
cis-1,2-Dichloroethene	**5.3**	ug/L	1.0	0.080	1		01/11/16 18:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 18:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/11/16 18:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/11/16 18:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/11/16 18:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/11/16 18:37	100-41-4	
2-Hexanone	**3.9J**	ug/L	10.0	1.2	1		01/11/16 18:37	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/11/16 18:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.1J**	ug/L	10.0	0.42	1		01/11/16 18:37	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/11/16 18:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/11/16 18:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/11/16 18:37	127-18-4	
Toluene	**0.44J**	ug/L	1.0	0.17	1		01/11/16 18:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/11/16 18:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/11/16 18:37	79-00-5	
Trichloroethene	**3.1**	ug/L	1.0	0.17	1		01/11/16 18:37	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/11/16 18:37	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/11/16 18:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/11/16 18:37	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/11/16 18:37	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/11/16 18:37	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/11/16 18:37		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: MW-61R-201601 **Lab ID: 60210924003** Collected: 01/08/16 09:50 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/11/16 17:38	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/11/16 17:38	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/11/16 17:38	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/11/16 17:38	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/11/16 17:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/11/16 17:38	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/11/16 17:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/11/16 17:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/11/16 17:38	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/11/16 17:38	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/11/16 17:38	67-66-3	
Chloromethane	**0.27J**	ug/L	1.0	0.080	1		01/11/16 17:38	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/11/16 17:38	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/11/16 17:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/11/16 17:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 17:38	75-35-4	
cis-1,2-Dichloroethene	**4.6**	ug/L	1.0	0.080	1		01/11/16 17:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 17:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/11/16 17:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/11/16 17:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/11/16 17:38	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/11/16 17:38	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/11/16 17:38	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/11/16 17:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/11/16 17:38	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/11/16 17:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/11/16 17:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/11/16 17:38	127-18-4	
Toluene	**0.23J**	ug/L	1.0	0.17	1		01/11/16 17:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/11/16 17:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/11/16 17:38	79-00-5	
Trichloroethene	**3.9**	ug/L	1.0	0.17	1		01/11/16 17:38	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/11/16 17:38	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/11/16 17:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/11/16 17:38	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		01/11/16 17:38	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/11/16 17:38	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/11/16 17:38		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: MW-33R-201601 **Lab ID: 60210924004** Collected: 01/08/16 13:10 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/11/16 19:06	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/11/16 19:06	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/11/16 19:06	75-27-4	
Bromoform	**0.31J**	ug/L	1.0	0.070	1		01/11/16 19:06	75-25-2	
Bromomethane	**1.1J**	ug/L	5.0	0.16	1		01/11/16 19:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/11/16 19:06	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/11/16 19:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/11/16 19:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/11/16 19:06	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/11/16 19:06	75-00-3	
Chloroform	**0.30J**	ug/L	1.0	0.14	1		01/11/16 19:06	67-66-3	
Chloromethane	**0.37J**	ug/L	1.0	0.080	1		01/11/16 19:06	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/11/16 19:06	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/11/16 19:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/11/16 19:06	107-06-2	
1,1-Dichloroethene	**0.54J**	ug/L	1.0	0.20	1		01/11/16 19:06	75-35-4	
cis-1,2-Dichloroethene	**7.6**	ug/L	1.0	0.080	1		01/11/16 19:06	156-59-2	
trans-1,2-Dichloroethene	**0.86J**	ug/L	1.0	0.20	1		01/11/16 19:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/11/16 19:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/11/16 19:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/11/16 19:06	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/11/16 19:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/11/16 19:06	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/11/16 19:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/11/16 19:06	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/11/16 19:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/11/16 19:06	79-34-5	
Tetrachloroethene	**0.13J**	ug/L	1.0	0.10	1		01/11/16 19:06	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/11/16 19:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/11/16 19:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/11/16 19:06	79-00-5	
Trichloroethene	**724**	ug/L	10.0	1.7	10		01/11/16 19:21	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/11/16 19:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/11/16 19:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/11/16 19:06	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		01/11/16 19:06	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/11/16 19:06	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/11/16 19:06		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: FB-01-201601 **Lab ID: 60210924005** Collected: 01/08/16 14:40 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/11/16 15:41	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/11/16 15:41	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/11/16 15:41	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/11/16 15:41	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/11/16 15:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/11/16 15:41	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/11/16 15:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/11/16 15:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/11/16 15:41	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/11/16 15:41	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/11/16 15:41	67-66-3	
Chloromethane	**0.22J**	ug/L	1.0	0.080	1		01/11/16 15:41	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/11/16 15:41	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/11/16 15:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/11/16 15:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 15:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/11/16 15:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 15:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/11/16 15:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/11/16 15:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/11/16 15:41	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/11/16 15:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/11/16 15:41	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/11/16 15:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/11/16 15:41	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/11/16 15:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/11/16 15:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/11/16 15:41	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/11/16 15:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/11/16 15:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/11/16 15:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/11/16 15:41	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/11/16 15:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/11/16 15:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/11/16 15:41	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/11/16 15:41	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/11/16 15:41	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/11/16 15:41		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: TB-03-201601 **Lab ID: 60210924006** Collected: 01/08/16 08:00 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/11/16 15:27	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/11/16 15:27	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/11/16 15:27	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/11/16 15:27	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/11/16 15:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/11/16 15:27	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/11/16 15:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/11/16 15:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/11/16 15:27	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/11/16 15:27	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/11/16 15:27	67-66-3	
Chloromethane	**0.17J**	ug/L	1.0	0.080	1		01/11/16 15:27	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/11/16 15:27	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/11/16 15:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/11/16 15:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 15:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/11/16 15:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 15:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/11/16 15:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/11/16 15:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/11/16 15:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/11/16 15:27	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/11/16 15:27	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/11/16 15:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/11/16 15:27	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/11/16 15:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/11/16 15:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/11/16 15:27	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/11/16 15:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/11/16 15:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/11/16 15:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/11/16 15:27	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/11/16 15:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/11/16 15:27	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/11/16 15:27	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/11/16 15:27	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/11/16 15:27	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/11/16 15:27		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: MW-187-201601 **Lab ID: 60210924007** Collected: 01/08/16 13:25 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/11/16 17:53	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/11/16 17:53	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/11/16 17:53	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/11/16 17:53	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/11/16 17:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/11/16 17:53	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/11/16 17:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/11/16 17:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/11/16 17:53	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/11/16 17:53	75-00-3	
Chloroform	**0.22J**	ug/L	1.0	0.14	1		01/11/16 17:53	67-66-3	
Chloromethane	**0.42J**	ug/L	1.0	0.080	1		01/11/16 17:53	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/11/16 17:53	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/11/16 17:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/11/16 17:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 17:53	75-35-4	
cis-1,2-Dichloroethene	**0.27J**	ug/L	1.0	0.080	1		01/11/16 17:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 17:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/11/16 17:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/11/16 17:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/11/16 17:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/11/16 17:53	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/11/16 17:53	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/11/16 17:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/11/16 17:53	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/11/16 17:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/11/16 17:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/11/16 17:53	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/11/16 17:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/11/16 17:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/11/16 17:53	79-00-5	
Trichloroethene	**0.22J**	ug/L	1.0	0.17	1		01/11/16 17:53	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/11/16 17:53	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/11/16 17:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/11/16 17:53	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/11/16 17:53	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/11/16 17:53	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/11/16 17:53		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: MW-188-201601 **Lab ID: 60210924008** Collected: 01/08/16 13:20 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/11/16 18:08	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/11/16 18:08	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/11/16 18:08	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/11/16 18:08	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/11/16 18:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/11/16 18:08	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/11/16 18:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/11/16 18:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/11/16 18:08	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/11/16 18:08	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/11/16 18:08	67-66-3	
Chloromethane	**0.23J**	ug/L	1.0	0.080	1		01/11/16 18:08	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/11/16 18:08	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/11/16 18:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/11/16 18:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 18:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/11/16 18:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/11/16 18:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/11/16 18:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/11/16 18:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/11/16 18:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/11/16 18:08	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/11/16 18:08	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/11/16 18:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/11/16 18:08	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/11/16 18:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/11/16 18:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/11/16 18:08	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/11/16 18:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/11/16 18:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/11/16 18:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/11/16 18:08	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/11/16 18:08	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/11/16 18:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/11/16 18:08	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/11/16 18:08	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/11/16 18:08	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/11/16 18:08		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: TMW-11-201601 **Lab ID: 60210924009** Collected: 01/08/16 10:05 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**20900**	ug/L	50.0	9.0	1	01/11/16 14:45	01/12/16 10:07	7439-89-6	
Manganese	**4090**	ug/L	5.0	2.4	1	01/11/16 14:45	01/12/16 10:07	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**1750**	mg/L	40.0	4.0	2		01/19/16 12:55		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	40.0	4.0	2		01/19/16 12:55		
Alkalinity, Total as CaCO3	**1750**	mg/L	40.0	4.0	2		01/19/16 12:55		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**17.9**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**7.2**	Std. Units	0.10	0.10	1		01/08/16 23:00		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**131**	mg/L	20.0	10.0	20		01/12/16 10:30	16887-00-6	
Sulfate	**1.2**	mg/L	1.0	0.24	1		01/12/16 10:13	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**1.9**	mg/L	0.10	0.046	1		01/12/16 13:46	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/09/16 12:28		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/09/16 12:28		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/09/16 12:28		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**1770**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**306**	mg/L	100	50.0	100		01/19/16 12:28	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**284**	mg/L	50.0	25.0	50		01/20/16 12:39	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.35**	mg/L	0.030	0.010	1	01/14/16 08:54	01/14/16 16:03		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: MW-61R-201601 **Lab ID: 60210924010** Collected: 01/08/16 09:50 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 14:10	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**27300**	ug/L	50.0	9.0	1	01/11/16 14:45	01/12/16 10:10	7439-89-6	
Manganese	**2850**	ug/L	5.0	2.4	1	01/11/16 14:45	01/12/16 10:10	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/19/16 10:48		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/19/16 10:48		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/19/16 10:48		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**24.3**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.8**	Std. Units	0.10	0.10	1		01/08/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/12/16 14:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**81.2**	mg/L	5.0	2.5	5		01/12/16 10:47	16887-00-6	
Sulfate	**12.1**	mg/L	1.0	0.24	1		01/12/16 20:49	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.98**	mg/L	0.10	0.046	1		01/12/16 13:47	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/09/16 12:29		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/09/16 12:29		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/09/16 12:29		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**7.7**	mg/L	2.0	1.0	2		01/19/16 12:41	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**4.0**	mg/L	1.0	0.50	1		01/20/16 13:05	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.18**	mg/L	0.030	0.010	1	01/14/16 08:54	01/14/16 16:03		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: MW-33R-201601 **Lab ID: 60210924011** Collected: 01/08/16 13:10 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 14:21	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**508**	ug/L	50.0	9.0	1	01/11/16 14:45	01/12/16 10:16	7439-89-6	
Manganese	**1990**	ug/L	5.0	2.4	1	01/11/16 14:45	01/12/16 10:16	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**33.3**	mg/L	20.0	2.0	1		01/19/16 12:03		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/19/16 12:03		
Alkalinity, Total as CaCO3	**33.3**	mg/L	20.0	2.0	1		01/19/16 12:03		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.51**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.2**	Std. Units	0.10	0.10	1		01/08/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:55	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**189**	mg/L	20.0	10.0	20		01/12/16 12:13	16887-00-6	
Sulfate	**121**	mg/L	20.0	4.7	20		01/12/16 12:13	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/12/16 13:48	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.4**	mg/L	0.10	0.014	1		01/09/16 12:30		M1
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/09/16 12:30		
Nitrogen, NO2 plus NO3	**2.4**	mg/L	0.10	0.014	1		01/09/16 12:30		M1
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**403**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/19/16 12:54	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.066**	mg/L	0.030	0.010	1	01/14/16 08:54	01/14/16 16:04		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: MW-187-201601 **Lab ID: 60210924012** Collected: 01/08/16 13:25 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 14:32	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**11100**	ug/L	50.0	9.0	1	01/11/16 14:45	01/12/16 10:19	7439-89-6	
Manganese	**253**	ug/L	5.0	2.4	1	01/11/16 14:45	01/12/16 10:19	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**217**	mg/L	20.0	2.0	1		01/19/16 12:20		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/19/16 12:20		
Alkalinity, Total as CaCO3	**234**	mg/L	20.0	2.0	1		01/19/16 12:20		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**11.1**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**9.8**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:55	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**89.9**	mg/L	10.0	5.0	10		01/12/16 12:48	16887-00-6	
Sulfate	**32.2**	mg/L	2.0	0.47	2		01/12/16 12:30	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/12/16 13:50	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**3.1**	mg/L	0.10	0.014	1		01/09/16 12:32		
Nitrogen, Nitrite	**0.19**	mg/L	0.10	0.023	1		01/09/16 12:32		
Nitrogen, NO2 plus NO3	**3.3**	mg/L	0.10	0.014	1		01/09/16 12:32		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**191**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/19/16 13:07	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.28**	mg/L	0.030	0.010	1	01/15/16 09:57	01/15/16 14:43		M1,R1

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60210924

Sample: MW-188-201601 **Lab ID: 60210924013** Collected: 01/08/16 13:20 Received: 01/09/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 14:43	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**11700**	ug/L	50.0	9.0	1	01/11/16 14:45	01/12/16 10:21	7439-89-6	
Manganese	**250**	ug/L	5.0	2.4	1	01/11/16 14:45	01/12/16 10:21	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**115**	mg/L	20.0	2.0	1		01/19/16 12:24		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/19/16 12:24		
Alkalinity, Total as CaCO3	**115**	mg/L	20.0	2.0	1		01/19/16 12:24		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**11.1**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.3**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**159**	mg/L	10.0	5.0	10		01/12/16 13:22	16887-00-6	
Sulfate	**23.0**	mg/L	2.0	0.47	2		01/12/16 13:05	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/12/16 13:53	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**4.2**	mg/L	0.10	0.014	1		01/09/16 12:33		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/09/16 12:33		
Nitrogen, NO2 plus NO3	**4.2**	mg/L	0.10	0.014	1		01/09/16 12:33		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**225**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/19/16 13:20	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.48**	mg/L	0.030	0.010	1	01/15/16 09:57	01/15/16 14:44		

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: GCSV/4868 Analysis Method: EPA 8015 - Alcohol
QC Batch Method: EPA 8015 - Alcohol Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60210924010, 60210924011, 60210924012, 60210924013

METHOD BLANK: 194580 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/14/16 10:24	

LABORATORY CONTROL SAMPLE: 194581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	87400	87	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194582 194583

Parameter	Units	60210853011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	86700	70800	87	71	40-140	20	40	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: MPRP/34542 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

METHOD BLANK: 1695425 Matrix: Water
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	9.0	01/12/16 10:03	
Manganese	ug/L	ND	5.0	2.4	01/12/16 10:03	

LABORATORY CONTROL SAMPLE: 1695426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10000	100	80-120	
Manganese	ug/L	1000	1060	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1695427 1695428

Parameter	Units	60210924010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	27300	10000	10000	36400	36800	91	95	75-125	1	20	
Manganese	ug/L	2850	1000	1000	3820	3830	97	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: MSV/73687 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210924001, 60210924002, 60210924003, 60210924004, 60210924005, 60210924006, 60210924007, 60210924008

METHOD BLANK: 1695370 Matrix: Water
Associated Lab Samples: 60210924001, 60210924002, 60210924003, 60210924004, 60210924005, 60210924006, 60210924007, 60210924008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/11/16 14:58	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/11/16 14:58	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/11/16 14:58	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/11/16 14:58	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/11/16 14:58	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/11/16 14:58	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/11/16 14:58	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/11/16 14:58	
2-Hexanone	ug/L	ND	10.0	1.2	01/11/16 14:58	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/11/16 14:58	
Acetone	ug/L	ND	10.0	1.9	01/11/16 14:58	
Benzene	ug/L	ND	1.0	0.060	01/11/16 14:58	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/11/16 14:58	
Bromoform	ug/L	ND	1.0	0.070	01/11/16 14:58	
Bromomethane	ug/L	ND	5.0	0.16	01/11/16 14:58	
Carbon disulfide	ug/L	ND	5.0	0.12	01/11/16 14:58	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/11/16 14:58	
Chlorobenzene	ug/L	ND	1.0	0.21	01/11/16 14:58	
Chloroethane	ug/L	ND	1.0	0.15	01/11/16 14:58	
Chloroform	ug/L	ND	1.0	0.14	01/11/16 14:58	
Chloromethane	ug/L	ND	1.0	0.080	01/11/16 14:58	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/11/16 14:58	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/11/16 14:58	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/11/16 14:58	
Ethylbenzene	ug/L	ND	1.0	0.18	01/11/16 14:58	
Methylene chloride	ug/L	ND	1.0	0.15	01/11/16 14:58	
Styrene	ug/L	ND	1.0	0.12	01/11/16 14:58	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/11/16 14:58	
Toluene	ug/L	ND	1.0	0.17	01/11/16 14:58	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/11/16 14:58	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/11/16 14:58	
Trichloroethene	ug/L	ND	1.0	0.17	01/11/16 14:58	
Vinyl chloride	ug/L	ND	1.0	0.13	01/11/16 14:58	
Xylene (Total)	ug/L	ND	3.0	0.42	01/11/16 14:58	
1,2-Dichloroethane-d4 (S)	%	101	80-120		01/11/16 14:58	
4-Bromofluorobenzene (S)	%	100	80-120		01/11/16 14:58	
Toluene-d8 (S)	%	104	80-120		01/11/16 14:58	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

LABORATORY CONTROL SAMPLE: 1695371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.8	99	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	73-121	
1,1,2-Trichloroethane	ug/L	20	18.3	91	80-120	
1,1-Dichloroethane	ug/L	20	21.5	107	80-120	
1,1-Dichloroethene	ug/L	20	18.9	95	80-120	
1,2-Dichloroethane	ug/L	20	19.7	98	81-120	
1,2-Dichloropropane	ug/L	20	19.5	97	80-120	
2-Butanone (MEK)	ug/L	100	108	108	67-122	
2-Hexanone	ug/L	100	109	109	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	76-120	
Acetone	ug/L	100	120	120	72-120	
Benzene	ug/L	20	20.7	104	80-120	
Bromodichloromethane	ug/L	20	19.6	98	80-120	
Bromoform	ug/L	20	18.9	95	73-138	
Bromomethane	ug/L	20	23.1	115	38-137	
Carbon disulfide	ug/L	20	21.6	108	71-129	
Carbon tetrachloride	ug/L	20	19.3	97	67-146	
Chlorobenzene	ug/L	20	20.3	101	80-120	
Chloroethane	ug/L	20	22.5	112	76-120	
Chloroform	ug/L	20	19.0	95	80-120	
Chloromethane	ug/L	20	22.2	111	34-165	
cis-1,2-Dichloroethene	ug/L	20	20.0	100	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.9	99	80-120	
Dibromochloromethane	ug/L	20	20.0	100	80-126	
Ethylbenzene	ug/L	20	21.4	107	80-120	
Methylene chloride	ug/L	20	20.9	105	80-120	
Styrene	ug/L	20	22.0	110	80-123	
Tetrachloroethene	ug/L	20	19.6	98	80-123	
Toluene	ug/L	20	20.6	103	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.6	98	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.8	104	80-129	
Trichloroethene	ug/L	20	18.8	94	80-120	
Vinyl chloride	ug/L	20	22.0	110	62-125	
Xylene (Total)	ug/L	60	65.3	109	80-120	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WET/59532 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

METHOD BLANK: 1696168 Matrix: Water
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/19/16 09:06	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/19/16 09:06	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/19/16 09:06	

LABORATORY CONTROL SAMPLE: 1696169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	484	97	90-110	

SAMPLE DUPLICATE: 1696170

Parameter	Units	60210963002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	<2.0	ND		10	
Alkalinity, Total as CaCO3	mg/L	220	213	4	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	220	213	4	10	

SAMPLE DUPLICATE: 1696171

Parameter	Units	60210853017 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	70.7	72.0	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	70.7	72.0	2	10	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WET/59509
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60210924010

METHOD BLANK: 1695546 Matrix: Water
Associated Lab Samples: 60210924010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/12/16 13:59	

LABORATORY CONTROL SAMPLE: 1695547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.52	103	80-120	

MATRIX SPIKE SAMPLE: 1695548

Parameter	Units	10335385005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.48	96	75-125	

SAMPLE DUPLICATE: 1695549

Parameter	Units	60210763003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1695550

Parameter	Units	60210853012 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WET/59530 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60210924011, 60210924012, 60210924013

METHOD BLANK: 1696147 Matrix: Water
Associated Lab Samples: 60210924011, 60210924012, 60210924013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/13/16 13:39	

LABORATORY CONTROL SAMPLE: 1696148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.52	105	80-120	

MATRIX SPIKE SAMPLE: 1696149

Parameter	Units	60210924011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.40	81	75-125	

SAMPLE DUPLICATE: 1696150

Parameter	Units	60210924012 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1696151

Parameter	Units	60210967019 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WETA/37671 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

METHOD BLANK: 1695512 Matrix: Water
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/12/16 09:38	
Sulfate	mg/L	ND	1.0	0.25	01/12/16 09:38	

LABORATORY CONTROL SAMPLE: 1695513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1695514 1695515

Parameter	Units	60210882006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	121	100	100	213	210	92	88	80-120	2	15	
Sulfate	mg/L	121	100	100	241	236	120	115	80-120	2	15	

MATRIX SPIKE SAMPLE: 1695516

Parameter	Units	60210808002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	333	125	444	89	80-120	
Sulfate	mg/L	262	125	369	86	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WETA/37683 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

METHOD BLANK: 1695605 Matrix: Water
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/12/16 13:28	

LABORATORY CONTROL SAMPLE: 1695606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 1695607

Parameter	Units	60210860004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.4	115	90-110	M1

MATRIX SPIKE SAMPLE: 1695608

Parameter	Units	60210861003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.2	107	90-110	

SAMPLE DUPLICATE: 1695609

Parameter	Units	60210887002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	39.9	38.9	2	18	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WETA/37663 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

METHOD BLANK: 1695249 Matrix: Water
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.014	01/09/16 12:26	
Nitrogen, Nitrite	mg/L	ND	0.10	0.023	01/09/16 12:26	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	0.014	01/09/16 12:26	

LABORATORY CONTROL SAMPLE: 1695250

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	97	85-115	
Nitrogen, Nitrite	mg/L	.4	0.38	95	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	1.9	97	90-110	

MATRIX SPIKE SAMPLE: 1695251

Parameter	Units	60210924011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.4	1.6	3.7	82	85-115	M1
Nitrogen, Nitrite	mg/L	ND	.4	0.40	99	90-110	
Nitrogen, NO2 plus NO3	mg/L	2.4	2	4.1	85	90-110	M1

SAMPLE DUPLICATE: 1695252

Parameter	Units	60210924012 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	3.1	3.1	0	20	
Nitrogen, Nitrite	mg/L	0.19	0.18	4	20	
Nitrogen, NO2 plus NO3	mg/L	3.3	3.3	0	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WETA/37721 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

METHOD BLANK: 1696971 Matrix: Water
Associated Lab Samples: 60210924009, 60210924010, 60210924011, 60210924012, 60210924013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/19/16 09:40	

LABORATORY CONTROL SAMPLE: 1696972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.6	112	80-120	

MATRIX SPIKE SAMPLE: 1696973

Parameter	Units	60210855001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.9	5	5.9	80	80-120	

SAMPLE DUPLICATE: 1696974

Parameter	Units	60210856002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	7.5	7.6	2	25	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WETA/37790 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 60210924009, 60210924010

METHOD BLANK: 1699293 Matrix: Water
Associated Lab Samples: 60210924009, 60210924010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.50	01/20/16 12:00	

LABORATORY CONTROL SAMPLE: 1699294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.5	110	80-120	

MATRIX SPIKE SAMPLE: 1699295

Parameter	Units	60210924009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	284	250	553	108	80-120	

SAMPLE DUPLICATE: 1699296

Parameter	Units	60210924010 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	4.0	4.1	2	25	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WETA/10233 Analysis Method: SM 4500-P E
QC Batch Method: SM4500-P B Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60210924009, 60210924010, 60210924011

METHOD BLANK: 194859 Matrix: Water
Associated Lab Samples: 60210924009, 60210924010, 60210924011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.014J	0.030	0.010	01/14/16 15:52	

LABORATORY CONTROL SAMPLE: 194860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.4	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194861 194862

Parameter	Units	7536279002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.032	1.5	1.5	1.4	1.4	88	88	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194863 194864

Parameter	Units	7536858001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.077	1.5	1.5	1.4	1.4	87	89	80-120	2	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60210924

QC Batch: WETA/10248 Analysis Method: SM 4500-P E
QC Batch Method: SM4500-P B Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60210924012, 60210924013

METHOD BLANK: 195386 Matrix: Water
Associated Lab Samples: 60210924012, 60210924013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.014J	0.030	0.010	01/15/16 14:35	

LABORATORY CONTROL SAMPLE: 195387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.3	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195388 195389

Parameter	Units	7537074001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.091	1.5	1.5	1.9	1.4	117	88	80-120	27	20	R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195390 195391

Parameter	Units	60210924012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.28	1.5	1.5	2.4	1.5	139	80	80-120	46	20	M1,R1

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QUALIFIERS

Project: FORT SMITH AR
Pace Project No.: 60210924

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-D	Pace Analytical Services - Dallas
PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73687

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: WET/59732

[1] Ferrous Fe performed in the field

Batch: WET/59734

[1] Field pH

ANALYTE QUALIFIERS

H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60210924

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210924010	**MW-61R-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210924011	**MW-33R-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210924012	**MW-187-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210924013	**MW-188-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210924009	**TMW-11-201601**	EPA 3010	MPRP/34542	EPA 6010	ICP/25342
60210924010	**MW-61R-201601**	EPA 3010	MPRP/34542	EPA 6010	ICP/25342
60210924011	**MW-33R-201601**	EPA 3010	MPRP/34542	EPA 6010	ICP/25342
60210924012	**MW-187-201601**	EPA 3010	MPRP/34542	EPA 6010	ICP/25342
60210924013	**MW-188-201601**	EPA 3010	MPRP/34542	EPA 6010	ICP/25342
60210924001	**TMW-10-201601**	EPA 5030B/8260	MSV/73687		
60210924002	**TMW-11-201601**	EPA 5030B/8260	MSV/73687		
60210924003	**MW-61R-201601**	EPA 5030B/8260	MSV/73687		
60210924004	**MW-33R-201601**	EPA 5030B/8260	MSV/73687		
60210924005	**FB-01-201601**	EPA 5030B/8260	MSV/73687		
60210924006	**TB-03-201601**	EPA 5030B/8260	MSV/73687		
60210924007	**MW-187-201601**	EPA 5030B/8260	MSV/73687		
60210924008	**MW-188-201601**	EPA 5030B/8260	MSV/73687		
60210924009	**TMW-11-201601**	SM 2320B	WET/59532		
60210924010	**MW-61R-201601**	SM 2320B	WET/59532		
60210924011	**MW-33R-201601**	SM 2320B	WET/59532		
60210924012	**MW-187-201601**	SM 2320B	WET/59532		
60210924013	**MW-188-201601**	SM 2320B	WET/59532		
60210924009	**TMW-11-201601**	SM 3500-Fe B#4	WET/59732		
60210924010	**MW-61R-201601**	SM 3500-Fe B#4	WET/59732		
60210924011	**MW-33R-201601**	SM 3500-Fe B#4	WET/59732		
60210924012	**MW-187-201601**	SM 3500-Fe B#4	WET/59732		
60210924013	**MW-188-201601**	SM 3500-Fe B#4	WET/59732		
60210924009	**TMW-11-201601**	SM 4500-H+B	WET/59734		
60210924010	**MW-61R-201601**	SM 4500-H+B	WET/59734		
60210924011	**MW-33R-201601**	SM 4500-H+B	WET/59734		
60210924012	**MW-187-201601**	SM 4500-H+B	WET/59734		
60210924013	**MW-188-201601**	SM 4500-H+B	WET/59734		
60210924010	**MW-61R-201601**	SM 4500-S-2 D	WET/59509		
60210924011	**MW-33R-201601**	SM 4500-S-2 D	WET/59530		
60210924012	**MW-187-201601**	SM 4500-S-2 D	WET/59530		
60210924013	**MW-188-201601**	SM 4500-S-2 D	WET/59530		
60210924009	**TMW-11-201601**	EPA 300.0	WETA/37671		
60210924010	**MW-61R-201601**	EPA 300.0	WETA/37671		
60210924011	**MW-33R-201601**	EPA 300.0	WETA/37671		
60210924012	**MW-187-201601**	EPA 300.0	WETA/37671		
60210924013	**MW-188-201601**	EPA 300.0	WETA/37671		
60210924009	**TMW-11-201601**	EPA 350.1	WETA/37683		
60210924010	**MW-61R-201601**	EPA 350.1	WETA/37683		
60210924011	**MW-33R-201601**	EPA 350.1	WETA/37683		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60210924

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210924012	**MW-187-201601**	EPA 350.1	WETA/37683		
60210924013	**MW-188-201601**	EPA 350.1	WETA/37683		
60210924009	**TMW-11-201601**	EPA 353.2	WETA/37663		
60210924010	**MW-61R-201601**	EPA 353.2	WETA/37663		
60210924011	**MW-33R-201601**	EPA 353.2	WETA/37663		
60210924012	**MW-187-201601**	EPA 353.2	WETA/37663		
60210924013	**MW-188-201601**	EPA 353.2	WETA/37663		
60210924009	**TMW-11-201601**	SM 4500-CO2 D	WETA/37869		
60210924010	**MW-61R-201601**	SM 4500-CO2 D	WETA/37869		
60210924011	**MW-33R-201601**	SM 4500-CO2 D	WETA/37869		
60210924012	**MW-187-201601**	SM 4500-CO2 D	WETA/37869		
60210924013	**MW-188-201601**	SM 4500-CO2 D	WETA/37869		
60210924009	**TMW-11-201601**	SM 5310C	WETA/37721		
60210924010	**MW-61R-201601**	SM 5310C	WETA/37721		
60210924011	**MW-33R-201601**	SM 5310C	WETA/37721		
60210924012	**MW-187-201601**	SM 5310C	WETA/37721		
60210924013	**MW-188-201601**	SM 5310C	WETA/37721		
60210924009	**TMW-11-201601**	SM 5310C	WETA/37790		
60210924010	**MW-61R-201601**	SM 5310C	WETA/37790		
60210924009	**TMW-11-201601**	SM4500-P B	WETA/10233	SM 4500-P E	WETA/10242
60210924010	**MW-61R-201601**	SM4500-P B	WETA/10233	SM 4500-P E	WETA/10242
60210924011	**MW-33R-201601**	SM4500-P B	WETA/10233	SM 4500-P E	WETA/10242
60210924012	**MW-187-201601**	SM4500-P B	WETA/10248	SM 4500-P E	WETA/10256
60210924013	**MW-188-201601**	SM4500-P B	WETA/10248	SM 4500-P E	WETA/10256

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Sample Condition Upon Receipt

WO# : 60210924

60210924

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☒ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: 8044 0381 4718 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☒ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.8

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JB 1/9

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 holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. Na_2SO_3 pH
Rush Turn Around Time requested:	☒Yes ☐No ☐N/A	7. VOC, only 24hr
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC:	☒Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	14.
Exceptions: (VOA), Coliform, O&G, WI-DRO (water)	☒Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☒Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): Covered		15.
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☒N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / (N)

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CRB Date: 01/11/16

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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 1

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	See Comments

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	39375000

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED DATE	COLLECTED 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 Y/N	8260 VOCs	Alkalinity	TOC (MW-61R + TMW-11)	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TMW-10-201601 BP3N (2)AG3S	WT	G	(3)DG9H					3				X						X											60210924
2	TMW-11-201601 BP3N (2)AG3S			(3)DG9H		(3)DG9H			8	X	X	X	X						X	X	X	X		X	X		X		BP3S BP3N	
3	MW-61R-201601 BAG3S					(3)DG9H			12	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	BP3Z	
4	MW-33R-201601 AG3S								11	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X		
5	FB-01-201601			(3)DG9H					3				X						X	X	X	X	X	X	X	X	X	X	X		
6	TB-03-201601			(2)DG9H					2				X						X												
7	MW-187-201601 BP3N AG3S								11	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X		
8	MW-188-201601								11	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X		
9																															
10																															
11																															
12																															

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Lucy Cross / Ramboll Environ	1/8/15			1/9	0935	2.8	Y	Y	Y
DOC filtered in field										
24hr TAT VOCs only										
Standard TAT for all other analy ses.										

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Lucy Cross					
SIGNATURE of SAMPLER:	Lucy Cross	DATE Signed (MM/DD/YY): 01/08/16				

*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.

Pace Analytical Services, Inc.
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January 27, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60210967

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

Dallas Certification IDs:

400 West Bethany Dr Suite 190, Allen, TX 75013
EPA# TX00074
Texas Certification #: T104704232-15-12
Texas Certification #: T104704232-14-8
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 2014-055
Louisiana Certification #: 02007

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SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60210967

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60210967001	**MW-34R-201601**	Water	01/11/16 10:45	01/12/16 07:50
60210967002	**MW-35R-201601**	Water	01/11/16 12:15	01/12/16 07:50
60210967003	**MW-36R-201601**	Water	01/11/16 10:20	01/12/16 07:50
60210967004	**MW-65-201601**	Water	01/11/16 12:35	01/12/16 07:50
60210967005	**MW-81-201601**	Water	01/11/16 17:00	01/12/16 07:50
60210967006	**MW-82-201601**	Water	01/11/16 15:30	01/12/16 07:50
60210967007	**IW-77-201601**	Water	01/11/16 15:15	01/12/16 07:50
60210967008	**IW-78-201601**	Water	01/11/16 10:30	01/12/16 07:50
60210967009	**IW-79-201601**	Water	01/11/16 12:25	01/12/16 07:50
60210967010	**IW-115-201601**	Water	01/11/16 14:15	01/12/16 07:50
60210967011	**TB-01-201601**	Water	01/11/16 08:00	01/12/16 07:50
60210967012	**TB-02-201601**	Water	01/11/16 08:00	01/12/16 07:50
60210967013	**MW-34R-201601**	Water	01/11/16 10:45	01/12/16 07:50
60210967014	**MW-35R-201601**	Water	01/11/16 12:15	01/12/16 07:50
60210967015	**MW-36R-201601**	Water	01/11/16 10:20	01/12/16 07:50
60210967016	**MW-65-201601**	Water	01/11/16 12:35	01/12/16 07:50
60210967017	**MW-81-201601**	Water	01/11/16 17:00	01/12/16 07:50
60210967018	**MW-82-201601**	Water	01/11/16 15:30	01/12/16 07:50
60210967019	**IW-77-201601**	Water	01/11/16 15:15	01/12/16 07:50

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210967

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60210967001	**MW-34R-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967002	**MW-35R-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967003	**MW-36R-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967004	**MW-65-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967005	**MW-81-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967006	**MW-82-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967007	**IW-77-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967008	**IW-78-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967009	**IW-79-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967010	**IW-115-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967011	**TB-01-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967012	**TB-02-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210967013	**MW-34R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210967014	**MW-35R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210967015	**MW-36R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210967

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	SMW	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210967016	**MW-65-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210967017	**MW-81-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210967018	**MW-82-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210967

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210967019	**IW-77-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **EPA 8015 - Alcohol**
Description: Alcohol by Direct Inject GCFID
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for EPA 8015 - Alcohol. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 27, 2016

General Information:
12 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73722

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73723

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **SM 3500-Fe B#4**
Description: Iron, Ferric (Calculation)
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for SM 3500-Fe B#4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Ferrous Fe performed in the field
- QC Batch: WET / 59747

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- IW-77-201601 (Lab ID: 60210967019)
- MW-34R-201601 (Lab ID: 60210967013)
- MW-35R-201601 (Lab ID: 60210967014)
- MW-36R-201601 (Lab ID: 60210967015)
- MW-65-201601 (Lab ID: 60210967016)
- MW-81-201601 (Lab ID: 60210967017)
- MW-82-201601 (Lab ID: 60210967018)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Field pH
- QC Batch: WET / 59755

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **EPA 350.1**
Description: 350.1 Ammonia
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37685

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210951002,60210957002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1695933)
  - Nitrogen, NO2 plus NO3
  - Nitrogen, Nitrate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **SM 4500-CO2 D**
Description: Total Carbon Dioxide Calc
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for SM 4500-CO2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **SM 5310C**
Description: 5310C TOC
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Method: **SM 4500-P E**
Description: SM4500P-E, Total Phosphorus
Client: Environ_AR
Date: January 27, 2016

General Information:
7 samples were analyzed for SM 4500-P E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with SM4500-P B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/10263

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210967013,60210974003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 195831)
  - Phosphate as P04
- MS (Lab ID: 195833)
  - Phosphate as P04
- MSD (Lab ID: 195832)
  - Phosphate as P04
- MSD (Lab ID: 195834)
  - Phosphate as P04

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-34R-201601 **Lab ID: 60210967001** Collected: 01/11/16 10:45 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**22.1**	ug/L	10.0	1.9	1		01/13/16 09:55	67-64-1	
Benzene	**0.12J**	ug/L	1.0	0.060	1		01/13/16 09:55	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 09:55	75-27-4	
Bromoform	**1.2**	ug/L	1.0	0.070	1		01/13/16 09:55	75-25-2	
Bromomethane	**1.5J**	ug/L	5.0	0.16	1		01/13/16 09:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 09:55	78-93-3	
Carbon disulfide	**4.7J**	ug/L	5.0	0.12	1		01/13/16 09:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 09:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 09:55	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 09:55	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 09:55	67-66-3	
Chloromethane	**1.6**	ug/L	1.0	0.080	1		01/13/16 09:55	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 09:55	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 09:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 09:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 09:55	75-35-4	
cis-1,2-Dichloroethene	**0.30J**	ug/L	1.0	0.080	1		01/13/16 09:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 09:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 09:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 09:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 09:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 09:55	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 09:55	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 09:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 09:55	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 09:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 09:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 09:55	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 09:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 09:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 09:55	79-00-5	
Trichloroethene	**2.6**	ug/L	1.0	0.17	1		01/13/16 09:55	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 09:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 09:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 09:55	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 09:55	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/13/16 09:55	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 09:55		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-35R-201601 **Lab ID: 60210967002** Collected: 01/11/16 12:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**38.8**	ug/L	10.0	1.9	1		01/13/16 11:22	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 11:22	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 11:22	75-27-4	
Bromoform	**1.5**	ug/L	1.0	0.070	1		01/13/16 11:22	75-25-2	
Bromomethane	**31.5**	ug/L	5.0	0.16	1		01/13/16 11:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 11:22	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 11:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 11:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 11:22	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 11:22	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 11:22	67-66-3	
Chloromethane	**33.9**	ug/L	1.0	0.080	1		01/13/16 11:22	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 11:22	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 11:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 11:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 11:22	75-35-4	
cis-1,2-Dichloroethene	**0.34J**	ug/L	1.0	0.080	1		01/13/16 11:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 11:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 11:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 11:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 11:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 11:22	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 11:22	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 11:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 11:22	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 11:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 11:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 11:22	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 11:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 11:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 11:22	79-00-5	
Trichloroethene	**13.2**	ug/L	1.0	0.17	1		01/13/16 11:22	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 11:22	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 11:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/13/16 11:22	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/13/16 11:22	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/13/16 11:22	2037-26-5	
Preservation pH	**4.0**		0.10	0.10	1		01/13/16 11:22		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-36R-201601 **Lab ID: 60210967003** Collected: 01/11/16 10:20 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**19.8**	ug/L	10.0	1.9	1		01/13/16 10:39	67-64-1	
Benzene	**0.22J**	ug/L	1.0	0.060	1		01/13/16 10:39	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 10:39	75-27-4	
Bromoform	**1.1**	ug/L	1.0	0.070	1		01/13/16 10:39	75-25-2	
Bromomethane	**54.9**	ug/L	5.0	0.16	1		01/13/16 10:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 10:39	78-93-3	
Carbon disulfide	**0.51J**	ug/L	5.0	0.12	1		01/13/16 10:39	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 10:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 10:39	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 10:39	75-00-3	
Chloroform	**0.23J**	ug/L	1.0	0.14	1		01/13/16 10:39	67-66-3	
Chloromethane	**23.4**	ug/L	1.0	0.080	1		01/13/16 10:39	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 10:39	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 10:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 10:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 10:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 10:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 10:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 10:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 10:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 10:39	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 10:39	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 10:39	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 10:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 10:39	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 10:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 10:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 10:39	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 10:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 10:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 10:39	79-00-5	
Trichloroethene	**0.31J**	ug/L	1.0	0.17	1		01/13/16 10:39	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 10:39	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 10:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 10:39	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	80-120		1		01/13/16 10:39	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		01/13/16 10:39	2037-26-5	
Preservation pH	**2.0**		0.10	0.10	1		01/13/16 10:39		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-65-201601 **Lab ID: 60210967004** Collected: 01/11/16 12:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**59.3**	ug/L	10.0	1.9	1		01/13/16 10:09	67-64-1	
Benzene	**0.34J**	ug/L	1.0	0.060	1		01/13/16 10:09	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 10:09	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 10:09	75-25-2	
Bromomethane	**1.2J**	ug/L	5.0	0.16	1		01/13/16 10:09	74-83-9	
2-Butanone (MEK)	**5.5J**	ug/L	10.0	0.59	1		01/13/16 10:09	78-93-3	
Carbon disulfide	**0.13J**	ug/L	5.0	0.12	1		01/13/16 10:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 10:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 10:09	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 10:09	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 10:09	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 10:09	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 10:09	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 10:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 10:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 10:09	75-35-4	
cis-1,2-Dichloroethene	**0.32J**	ug/L	1.0	0.080	1		01/13/16 10:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 10:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 10:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 10:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 10:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 10:09	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 10:09	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 10:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 10:09	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 10:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 10:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 10:09	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 10:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 10:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 10:09	79-00-5	
Trichloroethene	**14.5**	ug/L	1.0	0.17	1		01/13/16 10:09	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 10:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 10:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/13/16 10:09	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/13/16 10:09	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/13/16 10:09	2037-26-5	
Preservation pH	**7.0**		0.10	0.10	1		01/13/16 10:09		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-81-201601 **Lab ID: 60210967005** Collected: 01/11/16 17:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**20.8**	ug/L	10.0	1.9	1		01/13/16 11:51	67-64-1	
Benzene	**0.10J**	ug/L	1.0	0.060	1		01/13/16 11:51	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 11:51	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 11:51	75-25-2	
Bromomethane	**11.6**	ug/L	5.0	0.16	1		01/13/16 11:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 11:51	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 11:51	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 11:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 11:51	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 11:51	75-00-3	
Chloroform	**0.18J**	ug/L	1.0	0.14	1		01/13/16 11:51	67-66-3	
Chloromethane	**3.5**	ug/L	1.0	0.080	1		01/13/16 11:51	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 11:51	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 11:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 11:51	107-06-2	
1,1-Dichloroethene	**0.48J**	ug/L	1.0	0.20	1		01/13/16 11:51	75-35-4	
cis-1,2-Dichloroethene	**3.9**	ug/L	1.0	0.080	1		01/13/16 11:51	156-59-2	
trans-1,2-Dichloroethene	**0.48J**	ug/L	1.0	0.20	1		01/13/16 11:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 11:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 11:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 11:51	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 11:51	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 11:51	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 11:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 11:51	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 11:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 11:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 11:51	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 11:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 11:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 11:51	79-00-5	
Trichloroethene	**157**	ug/L	1.0	0.17	1		01/13/16 11:51	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 11:51	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 11:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 11:51	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/13/16 11:51	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/13/16 11:51	2037-26-5	
Preservation pH	**3.0**		0.10	0.10	1		01/13/16 11:51		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-82-201601 **Lab ID: 60210967006** Collected: 01/11/16 15:30 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**31.4**	ug/L	10.0	1.9	1		01/13/16 10:53	67-64-1	
Benzene	**0.17J**	ug/L	1.0	0.060	1		01/13/16 10:53	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 10:53	75-27-4	
Bromoform	**0.15J**	ug/L	1.0	0.070	1		01/13/16 10:53	75-25-2	
Bromomethane	**5.2**	ug/L	5.0	0.16	1		01/13/16 10:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 10:53	78-93-3	
Carbon disulfide	**0.84J**	ug/L	5.0	0.12	1		01/13/16 10:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 10:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 10:53	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 10:53	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 10:53	67-66-3	
Chloromethane	**5.4**	ug/L	1.0	0.080	1		01/13/16 10:53	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 10:53	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 10:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 10:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 10:53	75-35-4	
cis-1,2-Dichloroethene	**0.18J**	ug/L	1.0	0.080	1		01/13/16 10:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 10:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 10:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 10:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 10:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 10:53	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 10:53	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 10:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 10:53	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 10:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 10:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 10:53	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 10:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 10:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 10:53	79-00-5	
Trichloroethene	**5.6**	ug/L	1.0	0.17	1		01/13/16 10:53	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 10:53	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 10:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 10:53	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 10:53	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/13/16 10:53	2037-26-5	
Preservation pH	**3.0**		0.10	0.10	1		01/13/16 10:53		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: IW-77-201601 **Lab ID: 60210967007** Collected: 01/11/16 15:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**19.5**	ug/L	10.0	1.9	1		01/13/16 11:08	67-64-1	
Benzene	**0.11J**	ug/L	1.0	0.060	1		01/13/16 11:08	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 11:08	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 11:08	75-25-2	
Bromomethane	**5.3**	ug/L	5.0	0.16	1		01/13/16 11:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 11:08	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 11:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 11:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 11:08	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 11:08	75-00-3	
Chloroform	**0.26J**	ug/L	1.0	0.14	1		01/13/16 11:08	67-66-3	
Chloromethane	**6.1**	ug/L	1.0	0.080	1		01/13/16 11:08	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 11:08	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 11:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 11:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 11:08	75-35-4	
cis-1,2-Dichloroethene	**1.3**	ug/L	1.0	0.080	1		01/13/16 11:08	156-59-2	
trans-1,2-Dichloroethene	**0.26J**	ug/L	1.0	0.20	1		01/13/16 11:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 11:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 11:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 11:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 11:08	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 11:08	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 11:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 11:08	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 11:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 11:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 11:08	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 11:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 11:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 11:08	79-00-5	
Trichloroethene	**95.3**	ug/L	1.0	0.17	1		01/13/16 11:08	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 11:08	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 11:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/13/16 11:08	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/13/16 11:08	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/13/16 11:08	2037-26-5	
Preservation pH	**4.0**		0.10	0.10	1		01/13/16 11:08		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: IW-78-201601 **Lab ID: 60210967008** Collected: 01/11/16 10:30 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**20.2**	ug/L	10.0	1.9	1		01/13/16 11:37	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 11:37	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 11:37	75-27-4	
Bromoform	**1.5**	ug/L	1.0	0.070	1		01/13/16 11:37	75-25-2	
Bromomethane	**7.8**	ug/L	5.0	0.16	1		01/13/16 11:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 11:37	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 11:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 11:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 11:37	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 11:37	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 11:37	67-66-3	
Chloromethane	**5.4**	ug/L	1.0	0.080	1		01/13/16 11:37	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 11:37	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 11:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 11:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 11:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 11:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 11:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 11:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 11:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 11:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 11:37	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 11:37	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 11:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 11:37	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 11:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 11:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 11:37	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 11:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 11:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 11:37	79-00-5	
Trichloroethene	**1.5**	ug/L	1.0	0.17	1		01/13/16 11:37	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 11:37	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 11:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 11:37	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		01/13/16 11:37	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/13/16 11:37	2037-26-5	
Preservation pH	**2.0**		0.10	0.10	1		01/13/16 11:37		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: IW-79-201601 **Lab ID: 60210967009** Collected: 01/11/16 12:25 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**12.6**	ug/L	10.0	1.9	1		01/13/16 10:24	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 10:24	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 10:24	75-27-4	
Bromoform	**0.48J**	ug/L	1.0	0.070	1		01/13/16 10:24	75-25-2	
Bromomethane	**1.6J**	ug/L	5.0	0.16	1		01/13/16 10:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 10:24	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 10:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 10:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 10:24	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 10:24	75-00-3	
Chloroform	**0.14J**	ug/L	1.0	0.14	1		01/13/16 10:24	67-66-3	
Chloromethane	**3.3**	ug/L	1.0	0.080	1		01/13/16 10:24	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 10:24	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 10:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 10:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 10:24	75-35-4	
cis-1,2-Dichloroethene	**1.4**	ug/L	1.0	0.080	1		01/13/16 10:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 10:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 10:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 10:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 10:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 10:24	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 10:24	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 10:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 10:24	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 10:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 10:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 10:24	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 10:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 10:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 10:24	79-00-5	
Trichloroethene	**70.0**	ug/L	1.0	0.17	1		01/13/16 10:24	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 10:24	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 10:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/13/16 10:24	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/13/16 10:24	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/13/16 10:24	2037-26-5	
Preservation pH	**5.0**		0.10	0.10	1		01/13/16 10:24		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: IW-115-201601 **Lab ID: 60210967010** Collected: 01/11/16 14:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 12:20	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 12:20	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 12:20	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 12:20	75-25-2	
Bromomethane	**1.8J**	ug/L	5.0	0.16	1		01/13/16 12:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 12:20	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 12:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 12:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 12:20	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 12:20	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 12:20	67-66-3	
Chloromethane	**1.2**	ug/L	1.0	0.080	1		01/13/16 12:20	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 12:20	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 12:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 12:20	107-06-2	
1,1-Dichloroethene	**0.26J**	ug/L	1.0	0.20	1		01/13/16 12:20	75-35-4	
cis-1,2-Dichloroethene	**3.6**	ug/L	1.0	0.080	1		01/13/16 12:20	156-59-2	
trans-1,2-Dichloroethene	**0.39J**	ug/L	1.0	0.20	1		01/13/16 12:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 12:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 12:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 12:20	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 12:20	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 12:20	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 12:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 12:20	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 12:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 12:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 12:20	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 12:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 12:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 12:20	79-00-5	
Trichloroethene	**169**	ug/L	1.0	0.17	1		01/13/16 12:20	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 12:20	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 12:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/13/16 12:20	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 12:20	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/13/16 12:20	2037-26-5	
Preservation pH	**7.0**		0.10	0.10	1		01/13/16 12:20		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: TB-01-201601 **Lab ID: 60210967011** Collected: 01/11/16 08:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 09:26	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 09:26	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 09:26	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 09:26	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 09:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 09:26	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 09:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 09:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 09:26	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 09:26	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 09:26	67-66-3	
Chloromethane	**0.28J**	ug/L	1.0	0.080	1		01/13/16 09:26	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 09:26	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 09:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 09:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 09:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 09:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 09:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 09:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 09:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 09:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 09:26	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 09:26	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 09:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 09:26	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 09:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 09:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 09:26	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 09:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 09:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 09:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 09:26	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 09:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 09:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/13/16 09:26	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/13/16 09:26	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/13/16 09:26	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 09:26		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: TB-02-201601 **Lab ID: 60210967012** Collected: 01/11/16 08:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 09:40	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 09:40	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 09:40	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 09:40	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 09:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 09:40	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 09:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 09:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 09:40	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 09:40	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 09:40	67-66-3	
Chloromethane	**0.15J**	ug/L	1.0	0.080	1		01/13/16 09:40	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 09:40	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 09:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 09:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 09:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 09:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 09:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 09:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 09:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 09:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 09:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 09:40	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 09:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 09:40	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 09:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 09:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 09:40	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 09:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 09:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 09:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 09:40	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 09:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 09:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/13/16 09:40	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 09:40	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/13/16 09:40	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 09:40		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-34R-201601 **Lab ID: 60210967013** Collected: 01/11/16 10:45 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 11:22	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**8640**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 16:32	7439-89-6	
Manganese	**6130**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:32	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**21.9**	mg/L	20.0	2.0	1		01/20/16 12:27		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 12:27		
Alkalinity, Total as CaCO3	**21.9**	mg/L	20.0	2.0	1		01/20/16 12:27		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**6.2**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.5**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**174**	mg/L	20.0	10.0	20		01/13/16 14:53	16887-00-6	
Sulfate	**196**	mg/L	20.0	4.7	20		01/13/16 14:53	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 08:41	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.071J**	mg/L	0.10	0.014	1		01/12/16 14:56		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 14:56		
Nitrogen, NO2 plus NO3	**0.071J**	mg/L	0.10	0.014	1		01/12/16 14:56		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**149**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/19/16 13:33	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.19**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 15:53		M1

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-35R-201601 **Lab ID: 60210967014** Collected: 01/11/16 12:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 11:33	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**24.7J**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 16:38	7439-89-6	
Manganese	**72.0**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:38	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**175**	mg/L	20.0	2.0	1		01/20/16 12:32		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 12:32		
Alkalinity, Total as CaCO3	**175**	mg/L	20.0	2.0	1		01/20/16 12:32		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**243**	mg/L	20.0	10.0	20		01/13/16 15:08	16887-00-6	
Sulfate	**5700**	mg/L	500	118	500		01/13/16 15:22	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.67**	mg/L	0.10	0.046	1		01/19/16 08:43	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.9**	mg/L	0.10	0.014	1		01/12/16 14:56		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 14:56		
Nitrogen, NO2 plus NO3	**2.9**	mg/L	0.10	0.014	1		01/12/16 14:56		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**445**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.59J**	mg/L	1.0	0.50	1		01/19/16 13:47	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**1.7**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 15:55		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-36R-201601 **Lab ID: 60210967015** Collected: 01/11/16 10:20 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 12:18	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**16300**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 16:41	7439-89-6	
Manganese	**4210**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:41	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**36.4**	mg/L	20.0	2.0	1		01/20/16 12:42		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 12:42		
Alkalinity, Total as CaCO3	**36.4**	mg/L	20.0	2.0	1		01/20/16 12:42		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**16.2**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.2**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**205**	mg/L	20.0	10.0	20		01/13/16 15:37	16887-00-6	
Sulfate	**2020**	mg/L	200	47.3	200		01/13/16 15:51	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.21**	mg/L	0.10	0.046	1		01/19/16 08:44	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.4**	mg/L	0.10	0.014	1		01/12/16 14:57		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 14:57		
Nitrogen, NO2 plus NO3	**1.4**	mg/L	0.10	0.014	1		01/12/16 14:57		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**481**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**1.1**	mg/L	1.0	0.50	1		01/19/16 14:00	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.091**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 15:55		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-65-201601 **Lab ID: 60210967016** Collected: 01/11/16 12:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 12:29	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**428**	ug/L	50.0	9.0	1	01/13/16 10:05	01/19/16 13:05	7439-89-6	
Manganese	**37.1**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:43	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	40.0	4.0	2		01/20/16 14:43		
Alkalinity, Carbonate (CaCO3)	**876**	mg/L	40.0	4.0	2		01/20/16 14:43		
Alkalinity, Total as CaCO3	**1240**	mg/L	40.0	4.0	2		01/20/16 14:43		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.43**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**12.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**220**	mg/L	20.0	10.0	20		01/13/16 16:49	16887-00-6	
Sulfate	**2770**	mg/L	200	47.3	200		01/13/16 16:05	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**2.2**	mg/L	0.20	0.093	2		01/19/16 10:42	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.4**	mg/L	0.10	0.014	1		01/12/16 14:58		
Nitrogen, Nitrite	**0.12**	mg/L	0.10	0.023	1		01/12/16 14:58		
Nitrogen, NO2 plus NO3	**2.5**	mg/L	0.10	0.014	1		01/12/16 14:58		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**385**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**5.0**	mg/L	1.0	0.50	1		01/19/16 14:13	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**2.4**	mg/L	0.15	0.050	5	01/19/16 08:21	01/19/16 16:07		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-81-201601 **Lab ID: 60210967017** Collected: 01/11/16 17:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 12:40	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**148**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 16:45	7439-89-6	
Manganese	**52.9**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:45	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**134**	mg/L	20.0	2.0	1		01/20/16 12:57		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 12:57		
Alkalinity, Total as CaCO3	**134**	mg/L	20.0	2.0	1		01/20/16 12:57		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.5**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**237**	mg/L	50.0	25.0	50		01/13/16 17:03	16887-00-6	
Sulfate	**832**	mg/L	50.0	11.8	50		01/13/16 17:03	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.13**	mg/L	0.10	0.046	1		01/19/16 08:48	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.4**	mg/L	0.10	0.014	1		01/12/16 14:59		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 14:59		
Nitrogen, NO2 plus NO3	**1.4**	mg/L	0.10	0.014	1		01/12/16 14:59		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**203**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**1.7**	mg/L	1.0	0.50	1		01/19/16 14:52	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**3.0**	mg/L	0.060	0.020	2	01/19/16 08:21	01/19/16 15:58		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: MW-82-201601 **Lab ID: 60210967018** Collected: 01/11/16 15:30 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 12:51	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**118**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 16:48	7439-89-6	
Manganese	**539**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:48	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**40.8**	mg/L	20.0	2.0	1		01/20/16 13:01		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:01		
Alkalinity, Total as CaCO3	**40.8**	mg/L	20.0	2.0	1		01/20/16 13:01		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.6**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**144**	mg/L	20.0	10.0	20		01/13/16 17:17	16887-00-6	
Sulfate	**1260**	mg/L	200	47.3	200		01/13/16 17:32	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.44**	mg/L	0.10	0.046	1		01/19/16 08:49	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.94**	mg/L	0.10	0.014	1		01/12/16 15:00		
Nitrogen, Nitrite	**0.094J**	mg/L	0.10	0.023	1		01/12/16 15:00		
Nitrogen, NO2 plus NO3	**1.0**	mg/L	0.10	0.014	1		01/12/16 15:00		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**231**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**5.0**	mg/L	1.0	0.50	1		01/19/16 15:05	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.85**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:02		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210967

Sample: IW-77-201601 **Lab ID: 60210967019** Collected: 01/11/16 15:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 15:28	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**17.9J**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 16:54	7439-89-6	
Manganese	**3.5J**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:54	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**346**	mg/L	20.0	2.0	1		01/20/16 13:08		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:08		
Alkalinity, Total as CaCO3	**346**	mg/L	20.0	2.0	1		01/20/16 13:08		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**7.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**184**	mg/L	20.0	10.0	20		01/13/16 17:46	16887-00-6	
Sulfate	**1880**	mg/L	100	23.7	100		01/13/16 18:01	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.42**	mg/L	0.10	0.046	1		01/19/16 08:51	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.1**	mg/L	0.10	0.014	1		01/12/16 15:01		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:01		
Nitrogen, NO2 plus NO3	**2.1**	mg/L	0.10	0.014	1		01/12/16 15:01		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**354**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**3.2**	mg/L	1.0	0.50	1		01/19/16 15:18	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.89**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:03		

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: GCSV/4868 Analysis Method: EPA 8015 - Alcohol
QC Batch Method: EPA 8015 - Alcohol Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018

METHOD BLANK: 194580 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/14/16 10:24	

LABORATORY CONTROL SAMPLE: 194581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	87400	87	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194582 194583

Parameter	Units	60210853011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	86700	70800	87	71	40-140	20	40	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: GCSV/4870
QC Batch Method: EPA 8015 - Alcohol
Analysis Method: EPA 8015 - Alcohol
Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60210967019

METHOD BLANK: 194891 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/14/16 10:36	

LABORATORY CONTROL SAMPLE: 194892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	88400	88	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194893 194894

Parameter	Units	60210967019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	102000	94400	102	94	40-140	8	40	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: MPRP/34568 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

METHOD BLANK: 1696258 Matrix: Water
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	9.0	01/18/16 16:30	
Manganese	ug/L	ND	5.0	2.4	01/18/16 16:30	

LABORATORY CONTROL SAMPLE: 1696259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9680	97	80-120	
Manganese	ug/L	1000	966	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696260 1696261

Parameter	Units	60210967013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	8640	10000	10000	18300	18500	97	98	75-125	1	20	
Manganese	ug/L	6130	1000	1000	7110	7190	98	106	75-125	1	20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: MSV/73722 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210967001, 60210967011, 60210967012

METHOD BLANK: 1696229 Matrix: Water
Associated Lab Samples: 60210967001, 60210967011, 60210967012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 09:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 09:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 09:11	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 09:11	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 09:11	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 09:11	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 09:11	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 09:11	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 09:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 09:11	
Acetone	ug/L	ND	10.0	1.9	01/13/16 09:11	
Benzene	ug/L	ND	1.0	0.060	01/13/16 09:11	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 09:11	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 09:11	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 09:11	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 09:11	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 09:11	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 09:11	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 09:11	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 09:11	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 09:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 09:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 09:11	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 09:11	
Ethylbenzene	ug/L	ND	1.0	0.18	01/13/16 09:11	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 09:11	
Styrene	ug/L	ND	1.0	0.12	01/13/16 09:11	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 09:11	
Toluene	ug/L	ND	1.0	0.17	01/13/16 09:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 09:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 09:11	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 09:11	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 09:11	
Xylene (Total)	ug/L	ND	3.0	0.42	01/13/16 09:11	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 09:11	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 09:11	
Toluene-d8 (S)	%	105	80-120		01/13/16 09:11	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

LABORATORY CONTROL SAMPLE: 1696230

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.4	97	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	96	73-121	
1,1,2-Trichloroethane	ug/L	20	17.6	88	80-120	
1,1-Dichloroethane	ug/L	20	21.0	105	80-120	
1,1-Dichloroethene	ug/L	20	19.1	95	80-120	
1,2-Dichloroethane	ug/L	20	19.3	97	81-120	
1,2-Dichloropropane	ug/L	20	19.3	97	80-120	
2-Butanone (MEK)	ug/L	100	109	109	67-122	
2-Hexanone	ug/L	100	109	109	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	76-120	
Acetone	ug/L	100	118	118	72-120	
Benzene	ug/L	20	20.3	102	80-120	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	17.6	88	73-138	
Bromomethane	ug/L	20	22.2	111	38-137	
Carbon disulfide	ug/L	20	21.1	105	71-129	
Carbon tetrachloride	ug/L	20	19.0	95	67-146	
Chlorobenzene	ug/L	20	19.7	99	80-120	
Chloroethane	ug/L	20	18.7	94	76-120	
Chloroform	ug/L	20	18.4	92	80-120	
Chloromethane	ug/L	20	20.4	102	34-165	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	80-120	
Dibromochloromethane	ug/L	20	19.1	96	80-126	
Ethylbenzene	ug/L	20	20.7	104	80-120	
Methylene chloride	ug/L	20	20.0	100	80-120	
Styrene	ug/L	20	22.0	110	80-123	
Tetrachloroethene	ug/L	20	18.1	91	80-123	
Toluene	ug/L	20	19.8	99	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.1	100	80-129	
Trichloroethene	ug/L	20	18.5	93	80-120	
Vinyl chloride	ug/L	20	22.0	110	62-125	
Xylene (Total)	ug/L	60	64.7	108	80-120	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: MSV/73723 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 7 day
Associated Lab Samples: 60210967002, 60210967003, 60210967004, 60210967005, 60210967006, 60210967007, 60210967008, 60210967009, 60210967010

METHOD BLANK: 1696231 Matrix: Water
Associated Lab Samples: 60210967002, 60210967003, 60210967004, 60210967005, 60210967006, 60210967007, 60210967008, 60210967009, 60210967010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 09:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 09:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 09:11	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 09:11	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 09:11	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 09:11	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 09:11	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 09:11	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 09:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 09:11	
Acetone	ug/L	ND	10.0	1.9	01/13/16 09:11	
Benzene	ug/L	ND	1.0	0.060	01/13/16 09:11	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 09:11	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 09:11	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 09:11	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 09:11	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 09:11	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 09:11	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 09:11	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 09:11	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 09:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 09:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 09:11	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 09:11	
Ethylbenzene	ug/L	ND	1.0	0.18	01/13/16 09:11	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 09:11	
Styrene	ug/L	ND	1.0	0.12	01/13/16 09:11	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 09:11	
Toluene	ug/L	ND	1.0	0.17	01/13/16 09:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 09:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 09:11	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 09:11	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 09:11	
Xylene (Total)	ug/L	ND	3.0	0.42	01/13/16 09:11	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 09:11	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 09:11	
Toluene-d8 (S)	%	105	80-120		01/13/16 09:11	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

LABORATORY CONTROL SAMPLE: 1696232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.4	97	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	96	73-121	
1,1,2-Trichloroethane	ug/L	20	17.6	88	80-120	
1,1-Dichloroethane	ug/L	20	21.0	105	80-120	
1,1-Dichloroethene	ug/L	20	19.1	95	80-120	
1,2-Dichloroethane	ug/L	20	19.3	97	81-120	
1,2-Dichloropropane	ug/L	20	19.3	97	80-120	
2-Butanone (MEK)	ug/L	100	109	109	67-122	
2-Hexanone	ug/L	100	109	109	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	76-120	
Acetone	ug/L	100	118	118	72-120	
Benzene	ug/L	20	20.3	102	80-120	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	17.6	88	73-138	
Bromomethane	ug/L	20	22.2	111	38-137	
Carbon disulfide	ug/L	20	21.1	105	71-129	
Carbon tetrachloride	ug/L	20	19.0	95	67-146	
Chlorobenzene	ug/L	20	19.7	99	80-120	
Chloroethane	ug/L	20	18.7	94	76-120	
Chloroform	ug/L	20	18.4	92	80-120	
Chloromethane	ug/L	20	20.4	102	34-165	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	80-120	
Dibromochloromethane	ug/L	20	19.1	96	80-126	
Ethylbenzene	ug/L	20	20.7	104	80-120	
Methylene chloride	ug/L	20	20.0	100	80-120	
Styrene	ug/L	20	22.0	110	80-123	
Tetrachloroethene	ug/L	20	18.1	91	80-123	
Toluene	ug/L	20	19.8	99	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.1	100	80-129	
Trichloroethene	ug/L	20	18.5	93	80-120	
Vinyl chloride	ug/L	20	22.0	110	62-125	
Xylene (Total)	ug/L	60	64.7	108	80-120	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: WET/59653 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

METHOD BLANK: 1699425 Matrix: Water
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/20/16 12:24	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/20/16 12:24	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/20/16 12:24	

LABORATORY CONTROL SAMPLE: 1699426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	490	98	90-110	

SAMPLE DUPLICATE: 1699427

Parameter	Units	60210967014 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	175	179	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	175	179	2	10	

SAMPLE DUPLICATE: 1699428

Parameter	Units	60210969002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	51.2	51.2	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	51.2	51.2	0	10	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: WET/59530 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

METHOD BLANK: 1696147 Matrix: Water
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/13/16 13:39	

LABORATORY CONTROL SAMPLE: 1696148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.52	105	80-120	

MATRIX SPIKE SAMPLE: 1696149

Parameter	Units	60210924011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.40	81	75-125	

SAMPLE DUPLICATE: 1696150

Parameter	Units	60210924012 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1696151

Parameter	Units	60210967019 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: WETA/37703 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

METHOD BLANK: 1696186 Matrix: Water
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/13/16 09:08	
Sulfate	mg/L	ND	1.0	0.25	01/13/16 09:08	

LABORATORY CONTROL SAMPLE: 1696187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	95	90-110	
Sulfate	mg/L	5	4.7	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696188 1696189

Parameter	Units	60210999001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	5	5	10.1	10	93	91	80-120	1	15	
Sulfate	mg/L	32.3	25	25	54.2	54.6	88	89	80-120	1	15	

MATRIX SPIKE SAMPLE: 1696190

Parameter	Units	60211007001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	515	250	748	93	80-120	
Sulfate	mg/L	2840	1000	3710	87	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: WETA/37767 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

METHOD BLANK: 1698752 Matrix: Water
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/19/16 08:36	

LABORATORY CONTROL SAMPLE: 1698753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1698754

Parameter	Units	60210944002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.76	2	2.9	107	90-110	

MATRIX SPIKE SAMPLE: 1698755

Parameter	Units	60210970005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	2	2.2	101	90-110	

SAMPLE DUPLICATE: 1698756

Parameter	Units	60210971002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	5.9	5.9	1	18	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: WETA/37685 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

METHOD BLANK: 1695930 Matrix: Water
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.014	01/12/16 14:44	
Nitrogen, Nitrite	mg/L	ND	0.10	0.023	01/12/16 14:44	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	0.014	01/12/16 14:44	

LABORATORY CONTROL SAMPLE: 1695931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	101	85-115	
Nitrogen, Nitrite	mg/L	.4	0.38	96	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 1695932

Parameter	Units	60210951002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.21	1.6	1.9	104	85-115	
Nitrogen, Nitrite	mg/L	ND	.4	0.42	104	90-110	
Nitrogen, NO2 plus NO3	mg/L	0.21	2	2.3	104	90-110	

MATRIX SPIKE SAMPLE: 1695933

Parameter	Units	60210957002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	26.3	16	39.5	83	85-115	M1
Nitrogen, Nitrite	mg/L	ND	4	4.0	101	90-110	
Nitrogen, NO2 plus NO3	mg/L	26.3	20	43.5	86	90-110	M1

SAMPLE DUPLICATE: 1695934

Parameter	Units	60210963001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.052J	0.041J		20	
Nitrogen, Nitrite	mg/L	<0.023	ND		20	
Nitrogen, NO2 plus NO3	mg/L	0.052J	0.041J		20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: WETA/37721 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

METHOD BLANK: 1696971 Matrix: Water
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/19/16 09:40	

LABORATORY CONTROL SAMPLE: 1696972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.6	112	80-120	

MATRIX SPIKE SAMPLE: 1696973

Parameter	Units	60210855001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.9	5	5.9	80	80-120	

SAMPLE DUPLICATE: 1696974

Parameter	Units	60210856002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	7.5	7.6	2	25	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210967

QC Batch: WETA/10263 Analysis Method: SM 4500-P E
QC Batch Method: SM4500-P B Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

METHOD BLANK: 195829 Matrix: Water
Associated Lab Samples: 60210967013, 60210967014, 60210967015, 60210967016, 60210967017, 60210967018, 60210967019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.014J	0.030	0.010	01/19/16 15:52	

LABORATORY CONTROL SAMPLE: 195830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.4	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195831 195832

Parameter	Units	60210967013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.19	1.5	1.5	1.3	1.2	70	69	80-120	2	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195833 195834

Parameter	Units	60210974003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.39	1.5	1.5	1.4	1.6	67	78	80-120	11	20	M1

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QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60210967

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-D	Pace Analytical Services - Dallas
PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73722
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/73723
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: WET/59747
[1] Ferrous Fe performed in the field
Batch: WET/59755
[1] Field pH

ANALYTE QUALIFIERS

H6	Analysis initiated outside of the 15 minute EPA required holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210967013	**MW-34R-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210967014	**MW-35R-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210967015	**MW-36R-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210967016	**MW-65-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210967017	**MW-81-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210967018	**MW-82-201601**	EPA 8015 - Alcohol	GCSV/4868		
60210967019	**IW-77-201601**	EPA 8015 - Alcohol	GCSV/4870		
60210967013	**MW-34R-201601**	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210967014	**MW-35R-201601**	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210967015	**MW-36R-201601**	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210967016	**MW-65-201601**	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210967017	**MW-81-201601**	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210967018	**MW-82-201601**	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210967019	**IW-77-201601**	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210967001	**MW-34R-201601**	EPA 5030B/8260	MSV/73722		
60210967011	**TB-01-201601**	EPA 5030B/8260	MSV/73722		
60210967012	**TB-02-201601**	EPA 5030B/8260	MSV/73722		
60210967002	**MW-35R-201601**	EPA 5030B/8260	MSV/73723		
60210967003	**MW-36R-201601**	EPA 5030B/8260	MSV/73723		
60210967004	**MW-65-201601**	EPA 5030B/8260	MSV/73723		
60210967005	**MW-81-201601**	EPA 5030B/8260	MSV/73723		
60210967006	**MW-82-201601**	EPA 5030B/8260	MSV/73723		
60210967007	**IW-77-201601**	EPA 5030B/8260	MSV/73723		
60210967008	**IW-78-201601**	EPA 5030B/8260	MSV/73723		
60210967009	**IW-79-201601**	EPA 5030B/8260	MSV/73723		
60210967010	**IW-115-201601**	EPA 5030B/8260	MSV/73723		
60210967013	**MW-34R-201601**	SM 2320B	WET/59653		
60210967014	**MW-35R-201601**	SM 2320B	WET/59653		
60210967015	**MW-36R-201601**	SM 2320B	WET/59653		
60210967016	**MW-65-201601**	SM 2320B	WET/59653		
60210967017	**MW-81-201601**	SM 2320B	WET/59653		
60210967018	**MW-82-201601**	SM 2320B	WET/59653		
60210967019	**IW-77-201601**	SM 2320B	WET/59653		
60210967013	**MW-34R-201601**	SM 3500-Fe B#4	WET/59747		
60210967014	**MW-35R-201601**	SM 3500-Fe B#4	WET/59747		
60210967015	**MW-36R-201601**	SM 3500-Fe B#4	WET/59747		
60210967016	**MW-65-201601**	SM 3500-Fe B#4	WET/59747		
60210967017	**MW-81-201601**	SM 3500-Fe B#4	WET/59747		
60210967018	**MW-82-201601**	SM 3500-Fe B#4	WET/59747		
60210967019	**IW-77-201601**	SM 3500-Fe B#4	WET/59747		
60210967013	**MW-34R-201601**	SM 4500-H+B	WET/59755		
60210967014	**MW-35R-201601**	SM 4500-H+B	WET/59755		
60210967015	**MW-36R-201601**	SM 4500-H+B	WET/59755		
60210967016	**MW-65-201601**	SM 4500-H+B	WET/59755		
60210967017	**MW-81-201601**	SM 4500-H+B	WET/59755		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210967018	**MW-82-201601**	SM 4500-H+B	WET/59755		
60210967019	**IW-77-201601**	SM 4500-H+B	WET/59755		
60210967013	**MW-34R-201601**	SM 4500-S-2 D	WET/59530		
60210967014	**MW-35R-201601**	SM 4500-S-2 D	WET/59530		
60210967015	**MW-36R-201601**	SM 4500-S-2 D	WET/59530		
60210967016	**MW-65-201601**	SM 4500-S-2 D	WET/59530		
60210967017	**MW-81-201601**	SM 4500-S-2 D	WET/59530		
60210967018	**MW-82-201601**	SM 4500-S-2 D	WET/59530		
60210967019	**IW-77-201601**	SM 4500-S-2 D	WET/59530		
60210967013	**MW-34R-201601**	EPA 300.0	WETA/37703		
60210967014	**MW-35R-201601**	EPA 300.0	WETA/37703		
60210967015	**MW-36R-201601**	EPA 300.0	WETA/37703		
60210967016	**MW-65-201601**	EPA 300.0	WETA/37703		
60210967017	**MW-81-201601**	EPA 300.0	WETA/37703		
60210967018	**MW-82-201601**	EPA 300.0	WETA/37703		
60210967019	**IW-77-201601**	EPA 300.0	WETA/37703		
60210967013	**MW-34R-201601**	EPA 350.1	WETA/37767		
60210967014	**MW-35R-201601**	EPA 350.1	WETA/37767		
60210967015	**MW-36R-201601**	EPA 350.1	WETA/37767		
60210967016	**MW-65-201601**	EPA 350.1	WETA/37767		
60210967017	**MW-81-201601**	EPA 350.1	WETA/37767		
60210967018	**MW-82-201601**	EPA 350.1	WETA/37767		
60210967019	**IW-77-201601**	EPA 350.1	WETA/37767		
60210967013	**MW-34R-201601**	EPA 353.2	WETA/37685		
60210967014	**MW-35R-201601**	EPA 353.2	WETA/37685		
60210967015	**MW-36R-201601**	EPA 353.2	WETA/37685		
60210967016	**MW-65-201601**	EPA 353.2	WETA/37685		
60210967017	**MW-81-201601**	EPA 353.2	WETA/37685		
60210967018	**MW-82-201601**	EPA 353.2	WETA/37685		
60210967019	**IW-77-201601**	EPA 353.2	WETA/37685		
60210967013	**MW-34R-201601**	SM 4500-CO2 D	WETA/37870		
60210967014	**MW-35R-201601**	SM 4500-CO2 D	WETA/37870		
60210967015	**MW-36R-201601**	SM 4500-CO2 D	WETA/37870		
60210967016	**MW-65-201601**	SM 4500-CO2 D	WETA/37870		
60210967017	**MW-81-201601**	SM 4500-CO2 D	WETA/37870		
60210967018	**MW-82-201601**	SM 4500-CO2 D	WETA/37870		
60210967019	**IW-77-201601**	SM 4500-CO2 D	WETA/37870		
60210967013	**MW-34R-201601**	SM 5310C	WETA/37721		
60210967014	**MW-35R-201601**	SM 5310C	WETA/37721		
60210967015	**MW-36R-201601**	SM 5310C	WETA/37721		
60210967016	**MW-65-201601**	SM 5310C	WETA/37721		
60210967017	**MW-81-201601**	SM 5310C	WETA/37721		
60210967018	**MW-82-201601**	SM 5310C	WETA/37721		
60210967019	**IW-77-201601**	SM 5310C	WETA/37721		
60210967013	**MW-34R-201601**	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210967

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210967014	**MW-35R-201601**	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210967015	**MW-36R-201601**	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210967016	**MW-65-201601**	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210967017	**MW-81-201601**	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210967018	**MW-82-201601**	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210967019	**IW-77-201601**	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267

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Sample Condition Upon Receipt

WO# : 60210967

60210967

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☑ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262

Type of Ice: Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 2.3 / 2.8

Date and initials of person examining contents: pvl 12/16

Temperature should be above freezing to 6°C

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 holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. Field readings pH
Rush Turn Around Time requested: pvl 12/16	☑Yes ☐No ☐N/A	7. Rush VOC only
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9. Samples receive with TB.
Containers intact:	☑Yes ☐No ☐N/A	10. 1 = TB1
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11. 11 = TB2
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): Cover		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☑N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

Per Wendy, sample IW-82-201601 should be MW-82-201601. CBC 01/12/2016

Project Manager Review: CBC Date: 01/12/16

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical
www.pacelabs.com

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

Page: 1 of 1

Section A Required Client Information

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	1 DAY (VOCs only)

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

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	Y/N	Analysis Test: 8260 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60210967
1	MW-34R-201601 3D69U 3D69H	WT	G	1/11/16	1045	1B93U	1A635		11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	N	1B95 1B93N 1B93 2 11-6 001/013
2	MW-35R-201601 ↓ 30THR	WT	G	1/11/16	1215	↓	↓		11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	N	002/014
3	MW-36R-201601 ↓ ↓	WT	G	1/11/16	1020				11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	N	003/015
4	MW-65-201601	WT	G	1/11/16	1235				11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	N	004/016
5	MW-81-201601	WT	G	1/11/16	1700				11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	N	005/017
6	IW-82-201601	WT	G	1/11/16	1530				11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	N	006/018
7	IW-77-201601	WT	G	1/11/16	1515	↓	↓		11	X	X	X		X			X		X	X	X	X	X	X	X	X	X	N	007/019
8	IW-78-201601	WT	G	1/11/16	1030				3	X	~~X~~	~~X~~		X			X		X									N	008
9	IW-79-201601	WT	G	1/11/16	1225				3								X		X									N	009
10	IW-115-201601	WT	G	1/11/16	1415				3								X		X									N	010
11	TB-01-201601 2D69H	WT	G	1/11/16					5 3				X						X									N	011
12	TB-02-201601 ↓	WT	G	1/11/16					3 2				X						X									N	012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Wendy Stonestreet/RE	1/11/16			1/12/16	0750	2-3	X	Y	Y
							2-8	X	X	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM/DD/YY): 1/11/2016

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.

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 60210967 **Workorder Name:** FORT SMITH **Owner Received Date:** 1/12/2016 **Results Requested By:** 1/13/2016

Report To	Subcontract To
Colleen Clyne Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Dallas 400 West Bethany Drive Suite 190 Allen, TX 75013 Phone (972)727-1123

						Preserved Containers						Requested Analysis												
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	BP3S	DG9U					8015 Chloroethanol	Total Phosphate											LAB USE ONLY
1	MW-34R-201601	PS	1/11/2016 10:45	60210967013	Water	1	3					X	X											001
2	MW-35R-201601	PS	1/11/2016 12:15	60210967014	Water	1	3					X	X											002
3	MW-36R-201601	PS	1/11/2016 10:20	60210967015	Water	1	3					X	X											003
4	MW-65-201601	PS	1/11/2016 12:35	60210967016	Water	1	3					X	X											004
5	MW-81-201601	PS	1/11/2016 17:00	60210967017	Water	1	3					X	X											005
6	IW-82-201601	PS	1/11/2016 15:30	60210967018	Water	1	3					X	X											006
7	IW-77-201601	PS	1/11/2016 15:15	60210967019	Water	1	3					X	X											007

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	[signature]	1/12/16 1700	[signature]	1/13/16 09:05	
2					
3					

Cooler Temperature on Receipt	°C	Custody Seal	Y or	Received on Ice	Y or	Samples Intact	Y or	N
IR-02								

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laborator

WO# : 7537282

7537282

Pace Analytical

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐San Angelo

Client Name: Pace - Kansas Project Work order: 7537282

Courier: FedEX ☑ UPS ☐ USPS ☐ Client ☐ Courier ☐ LSO ☐ PACE ☐ Other:

Tracking#: 6505 8163 6390

Custody Seal on Cooler/Box: Yes ☑ No ☐ Seals Intact: Yes ☑ No ☐ NA ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☑ Other ☐

Thermometer Used: IR-01 ~~IR-03~~ Type of Ice: Wet ☑ Blue ☐ None ☐ Sample Received on ice, cooling process has begun ☑

Cooler Temp: 0.1 (Temp should be above freezing to 6°C)

Chain of Custody Present	Yes ☑ No ☐ NA ☐	1
Chain of Custody filled out	Yes ☑ No ☐ NA ☐	2
Chain of Custody relinquished	Yes ☑ No ☐ NA ☐	3
Sampler name & signature on COC	Yes ☐ No ☑ NA ☐	4
Sample received within HT	Yes ☑ No ☐ NA ☐	5
Short HT analyses (<72 hrs)	Yes ☐ No ☑ NA ☐	6
Rush TAT requested	Yes ☐ No ☑ NA ☐	7
Sufficient Volume received	Yes ☑ No ☐ NA ☐	8
Correct Container used Pace Container used	Yes ☑ No ☐ NA ☐ Yes ☑ No ☐ NA ☐	9
Container Intact	Yes ☑ No ☐ NA ☐	10
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑	11
Filtered volume received for Dissolved tests	Yes ☐ No ☐ NA ☑	12
Sample labels match COC Include date/time/ID/analyses Matrix: WATER	Yes ☑ No ☐ NA ☐	13
All containers needing preservation have been checked	Yes ☑ No ☐ NA ☐	14a. Lot# of pH strip: 641200 3 pH checked Yes ☑ No ☐ pH<2 ☑ pH>9 ☐ pH>12 ☐ Lot# of Iodine strip: Lot# of Lead Acetate strip:
Do containers require preservation at the lab	Yes ☐ No ☑ NA ☐	14b. Preservation: / Lot#:
All containers needing preservation are found to be in Compliance with EPA recommendation Exception: VOA, coliform, O&G	Yes ☑ No ☐ Yes ☑ No ☐	14c.
Are soil samples (volatiles) received in Bulk ☐ Terracore ☐ EnCore ☐ NA ☑		15.
Trip Blank present Trip Blank Custody Seals Intact Pace Trip Blank Lot# (if purchased):	Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑	16.
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☑	17.
Project sampled in USDA Regulated Area:	Yes ☐ No ☐ NA ☑	18. List State

Client Notification/Resolution/Comments:

Person Contacted: Date:

Comments/Resolution:

Person Examining Contents: Date: 1/13/16

Pace Analytical Services - Dallas

Sample Container Count-

COC PAGE 1 of 1

COC ID# _____

Pace Project # 7537282

Sample Line Item	AG1S	AG1U	AG3S	BG1S	BP1U	BP2N	BP2S	BP2U	BP20	SP5T	VG9H	DG9M	VG9U	VG9W	WGFU	WGKU	BP3C	GN	WG2U	BP3S				
1							1						3											
2							1						3											
3							1						3											
4							1						3											
5							1						3											
6							1						3											
7							1						3											
8																								
9																								
10																								
11																								
12																								

Container Codes

AF	Air Filter	BP1A	1 liter NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic	R	terra core kit
AG1H	1L HCL Amber Glass	BP1N	1 liter HNO3 plastic	BP3U	250mL unpreserved plastic	SP5T	120mL Coliform Na Thiosulfate
AG1S	1L H2SO4 Amber Glass	BP1S	1 liter H2SO4 plastic	BP3Z	250mL NaOH, Zn Ac plastic	SP5U	120mL Coliform unpreserved
AG1T	1L Sodium Thiosulfate Amber	BP1U	1 liter unpreserved plastic	C	Air Cassettes	VG9H	40mL HCL clear vial
AG1U	1L Unpreserved Amber Glass	BP1Z	1 liter NaOH, Zn, Ac	DG9B	40mL Na Bisulfate amber vial	VG9T	40mL Na Thio. clear vial
AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plasti	DG9H	40mL HCL amber voa vial	VG9U	40mL unpreserved clear vial
AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	DG9M	40mL MeOH clear vial	VG9W	40mL Unpreserved Tared
AG2U	500mL unpreserved amber glas	BP2O	500mL NaOH plastic	DG9P	40mL TSP amber vial	VSG	Headspace septa vial & HCL
AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	DG9S	40mL H2SO4 amber vial	WGFU	4oz clear soil jar
AG3U	250mL unpreserved amber glas	BP2U	500mL unpreserved plastic	DG9T	40mL Na Thio amber vial	WGFX	4oz wide jar w/hexane wipe
BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac	DG9U	40mL unpreserved amber vial	WGKU	8oz wide jar upreserved
BG1S	1 liter H2SO4 clear glass	BP3A	250mL NaOh, Asc Acid plasti	GN	General unpreserved	WG2U	2oz clear jar
BG1T	1 liter Na Thiosulfate clear gla	BP3C	250mL NaOH plastic	I	Wipe/Swab	ZPLC	Ziploc Bag
BG1U	1 liter unpreserved glass	BP3N	250mL HNO3 plastic	JGFU	4oz unpreserved amber wide	Other	Other

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 26, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60210969

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2016. 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.

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

Sincerely,



Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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Lenexa, KS 66219
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CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60210969

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

Dallas Certification IDs:

400 West Bethany Dr Suite 190, Allen, TX 75013
EPA# TX00074
Texas Certification #: T104704232-15-12
Texas Certification #: T104704232-14-8
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 2014-055
Louisiana Certification #: 02007

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60210969

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60210969001	**MW-99-201601**	Water	01/11/16 09:35	01/12/16 07:50
60210969002	**MW-184-201601**	Water	01/11/16 11:05	01/12/16 07:50
60210969003	**MW-98-201601**	Water	01/11/16 13:33	01/12/16 07:50

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210969

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60210969001	**MW-99-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210969002	**MW-184-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210969003	**MW-98-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210969

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **EPA 8015 - Alcohol**
Description: Alcohol by Direct Inject GCFID
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for EPA 8015 - Alcohol. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73727

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **SM 3500-Fe B#4**
Description: Iron, Ferric (Calculation)
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 3500-Fe B#4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Ferrous Fe performed in the field
- QC Batch: WET / 59730

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA recommended holding time.
- MW-184-201601 (Lab ID: 60210969002)
- MW-98-201601 (Lab ID: 60210969003)
- MW-99-201601 (Lab ID: 60210969001)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Field pH
- QC Batch: WET / 59733

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **EPA 350.1**
Description: 350.1 Ammonia
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37685

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210951002,60210957002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1695933)
  - Nitrogen, NO2 plus NO3
  - Nitrogen, Nitrate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **SM 4500-CO2 D**
Description: Total Carbon Dioxide Calc
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 4500-CO2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **SM 5310C**
Description: 5310C TOC
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **SM 4500-P E**
Description: SM4500P-E, Total Phosphorus
Client: Environ_AR
Date: January 26, 2016

General Information:
3 samples were analyzed for SM 4500-P E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with SM4500-P B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/10248

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210924012,7537074001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 195390)
  - Phosphate as P04

R1: RPD value was outside control limits.

- MSD (Lab ID: 195389)
  - Phosphate as P04
- MSD (Lab ID: 195391)
  - Phosphate as P04

QC Batch: WETA/10263

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210967013,60210974003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 195831)
  - Phosphate as P04
- MS (Lab ID: 195833)
  - Phosphate as P04
- MSD (Lab ID: 195832)

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Method: **SM 4500-P E**
Description: SM4500P-E, Total Phosphorus
Client: Environ_AR
Date: January 26, 2016

QC Batch: WETA/10263

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210967013,60210974003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Phosphate as P04

- MSD (Lab ID: 195834)
  - Phosphate as P04

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210969

Sample: MW-99-201601 **Lab ID: 60210969001** Collected: 01/11/16 09:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 14:54	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**1070**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 16:56	7439-89-6	
Manganese	**25.8**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:56	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 12:49	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 12:49	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 12:49	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 12:49	75-25-2	
Bromomethane	**1.3J**	ug/L	5.0	0.16	1		01/13/16 12:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 12:49	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 12:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 12:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 12:49	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 12:49	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 12:49	67-66-3	
Chloromethane	**0.12J**	ug/L	1.0	0.080	1		01/13/16 12:49	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 12:49	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 12:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 12:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 12:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 12:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 12:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 12:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 12:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 12:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 12:49	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 12:49	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 12:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 12:49	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 12:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 12:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 12:49	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 12:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 12:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 12:49	79-00-5	
Trichloroethene	**0.21J**	ug/L	1.0	0.17	1		01/13/16 12:49	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 12:49	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 12:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/13/16 12:49	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/13/16 12:49	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/13/16 12:49	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 12:49		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210969

Sample: MW-99-201601 **Lab ID: 60210969001** Collected: 01/11/16 09:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**61.5**	mg/L	20.0	2.0	1		01/20/16 13:23		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:23		
Alkalinity, Total as CaCO3	**61.5**	mg/L	20.0	2.0	1		01/20/16 13:23		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**1.1**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.2**	Std. Units	0.10	0.10	1		01/11/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.5**	mg/L	1.0	0.50	1		01/13/16 21:51	16887-00-6	
Sulfate	**6.9**	mg/L	1.0	0.24	1		01/13/16 21:51	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 08:52	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.76**	mg/L	0.10	0.014	1		01/12/16 15:02		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:02		
Nitrogen, NO2 plus NO3	**0.76**	mg/L	0.10	0.014	1		01/12/16 15:02		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**130**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.63J**	mg/L	1.0	0.50	1		01/19/16 15:31	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.14**	mg/L	0.030	0.010	1	01/15/16 09:57	01/15/16 14:44		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210969

Sample: MW-184-201601 **Lab ID: 60210969002** Collected: 01/11/16 11:05 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 15:06	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**2050**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 16:59	7439-89-6	
Manganese	**227**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 16:59	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 13:04	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 13:04	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 13:04	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 13:04	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 13:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 13:04	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 13:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 13:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 13:04	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 13:04	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 13:04	67-66-3	
Chloromethane	**0.22J**	ug/L	1.0	0.080	1		01/13/16 13:04	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 13:04	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 13:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 13:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 13:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 13:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 13:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 13:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 13:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 13:04	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 13:04	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 13:04	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 13:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 13:04	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 13:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 13:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 13:04	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 13:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 13:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 13:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 13:04	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 13:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 13:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/13/16 13:04	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 13:04	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/13/16 13:04	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 13:04		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210969

Sample: MW-184-201601 **Lab ID: 60210969002** Collected: 01/11/16 11:05 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**51.2**	mg/L	20.0	2.0	1		01/20/16 13:27		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:27		
Alkalinity, Total as CaCO3	**51.2**	mg/L	20.0	2.0	1		01/20/16 13:27		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**2.0**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.9**	Std. Units	0.10	0.10	1		01/11/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:58	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.0**	mg/L	1.0	0.50	1		01/13/16 22:49	16887-00-6	
Sulfate	**2.5**	mg/L	1.0	0.24	1		01/13/16 22:49	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 08:53	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.72**	mg/L	0.10	0.014	1		01/12/16 15:03		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:03		
Nitrogen, NO2 plus NO3	**0.72**	mg/L	0.10	0.014	1		01/12/16 15:03		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**165**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.65J**	mg/L	1.0	0.50	1		01/19/16 15:44	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.11**	mg/L	0.030	0.010	1	01/15/16 09:57	01/15/16 14:44		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210969

Sample: MW-98-201601 **Lab ID: 60210969003** Collected: 01/11/16 13:33 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 15:17	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**234**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:01	7439-89-6	
Manganese	**371**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:01	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 13:19	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 13:19	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 13:19	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 13:19	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 13:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 13:19	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 13:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 13:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 13:19	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 13:19	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 13:19	67-66-3	
Chloromethane	**0.17J**	ug/L	1.0	0.080	1		01/13/16 13:19	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 13:19	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 13:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 13:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 13:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 13:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 13:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 13:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 13:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 13:19	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 13:19	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 13:19	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 13:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 13:19	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 13:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 13:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 13:19	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 13:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 13:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 13:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 13:19	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 13:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 13:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 13:19	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 13:19	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/13/16 13:19	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 13:19		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210969

Sample: MW-98-201601 **Lab ID: 60210969003** Collected: 01/11/16 13:33 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**116**	mg/L	20.0	2.0	1		01/20/16 13:35		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:35		
Alkalinity, Total as CaCO3	**116**	mg/L	20.0	2.0	1		01/20/16 13:35		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.20**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.3**	Std. Units	0.10	0.10	1		01/11/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:58	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.8**	mg/L	1.0	0.50	1		01/13/16 23:03	16887-00-6	
Sulfate	**14.5**	mg/L	1.0	0.24	1		01/13/16 23:03	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 08:54	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.13**	mg/L	0.10	0.014	1		01/12/16 15:05		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:05		
Nitrogen, NO2 plus NO3	**0.13**	mg/L	0.10	0.014	1		01/12/16 15:05		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**220**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.55J**	mg/L	1.0	0.50	1		01/20/16 13:57	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.099**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 15:53		

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: GCSV/4868 Analysis Method: EPA 8015 - Alcohol
QC Batch Method: EPA 8015 - Alcohol Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60210969001, 60210969002, 60210969003

METHOD BLANK: 194580 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/14/16 10:24	

LABORATORY CONTROL SAMPLE: 194581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	87400	87	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194582 194583

Parameter	Units	60210853011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	86700	70800	87	71	40-140	20	40	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: MPRP/34568 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60210969001, 60210969002, 60210969003

METHOD BLANK: 1696258 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002, 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	9.0	01/18/16 16:30	
Manganese	ug/L	ND	5.0	2.4	01/18/16 16:30	

LABORATORY CONTROL SAMPLE: 1696259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9680	97	80-120	
Manganese	ug/L	1000	966	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696260 1696261

Parameter	Units	60210967013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	8640	10000	10000	18300	18500	97	98	75-125	1	20	
Manganese	ug/L	6130	1000	1000	7110	7190	98	106	75-125	1	20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: MSV/73727 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210969001, 60210969002, 60210969003

METHOD BLANK: 1696308 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002, 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 09:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 09:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 09:11	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 09:11	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 09:11	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 09:11	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 09:11	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 09:11	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 09:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 09:11	
Acetone	ug/L	ND	10.0	1.9	01/13/16 09:11	
Benzene	ug/L	ND	1.0	0.060	01/13/16 09:11	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 09:11	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 09:11	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 09:11	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 09:11	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 09:11	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 09:11	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 09:11	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 09:11	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 09:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 09:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 09:11	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 09:11	
Ethylbenzene	ug/L	ND	1.0	0.18	01/13/16 09:11	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 09:11	
Styrene	ug/L	ND	1.0	0.12	01/13/16 09:11	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 09:11	
Toluene	ug/L	ND	1.0	0.17	01/13/16 09:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 09:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 09:11	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 09:11	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 09:11	
Xylene (Total)	ug/L	ND	3.0	0.42	01/13/16 09:11	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 09:11	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 09:11	
Toluene-d8 (S)	%	105	80-120		01/13/16 09:11	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

LABORATORY CONTROL SAMPLE: 1696309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.4	97	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	96	73-121	
1,1,2-Trichloroethane	ug/L	20	17.6	88	80-120	
1,1-Dichloroethane	ug/L	20	21.0	105	80-120	
1,1-Dichloroethene	ug/L	20	19.1	95	80-120	
1,2-Dichloroethane	ug/L	20	19.3	97	81-120	
1,2-Dichloropropane	ug/L	20	19.3	97	80-120	
2-Butanone (MEK)	ug/L	100	109	109	67-122	
2-Hexanone	ug/L	100	109	109	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	76-120	
Acetone	ug/L	100	118	118	72-120	
Benzene	ug/L	20	20.3	102	80-120	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	17.6	88	73-138	
Bromomethane	ug/L	20	22.2	111	38-137	
Carbon disulfide	ug/L	20	21.1	105	71-129	
Carbon tetrachloride	ug/L	20	19.0	95	67-146	
Chlorobenzene	ug/L	20	19.7	99	80-120	
Chloroethane	ug/L	20	18.7	94	76-120	
Chloroform	ug/L	20	18.4	92	80-120	
Chloromethane	ug/L	20	20.4	102	34-165	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	80-120	
Dibromochloromethane	ug/L	20	19.1	96	80-126	
Ethylbenzene	ug/L	20	20.7	104	80-120	
Methylene chloride	ug/L	20	20.0	100	80-120	
Styrene	ug/L	20	22.0	110	80-123	
Tetrachloroethene	ug/L	20	18.1	91	80-123	
Toluene	ug/L	20	19.8	99	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.1	100	80-129	
Trichloroethene	ug/L	20	18.5	93	80-120	
Vinyl chloride	ug/L	20	22.0	110	62-125	
Xylene (Total)	ug/L	60	64.7	108	80-120	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WET/59653 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60210969001, 60210969002, 60210969003

METHOD BLANK: 1699425 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002, 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/20/16 12:24	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/20/16 12:24	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/20/16 12:24	

LABORATORY CONTROL SAMPLE: 1699426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	490	98	90-110	

SAMPLE DUPLICATE: 1699427

Parameter	Units	60210967014 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	175	179	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	175	179	2	10	

SAMPLE DUPLICATE: 1699428

Parameter	Units	60210969002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	51.2	51.2	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	51.2	51.2	0	10	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WET/59530 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60210969001, 60210969002, 60210969003

METHOD BLANK: 1696147 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002, 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/13/16 13:39	

LABORATORY CONTROL SAMPLE: 1696148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.52	105	80-120	

MATRIX SPIKE SAMPLE: 1696149

Parameter	Units	60210924011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.40	81	75-125	

SAMPLE DUPLICATE: 1696150

Parameter	Units	60210924012 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1696151

Parameter	Units	60210967019 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WETA/37705 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60210969001, 60210969002, 60210969003

METHOD BLANK: 1696310 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002, 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/13/16 21:22	
Sulfate	mg/L	ND	1.0	0.25	01/13/16 21:22	

LABORATORY CONTROL SAMPLE: 1696311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.2	104	90-110	
Sulfate	mg/L	5	4.7	94	90-110	

MATRIX SPIKE SAMPLE: 1696312

Parameter	Units	60210969001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5.5	5	10.2	94	80-120	
Sulfate	mg/L	6.9	5	11.4	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696313 1696314

Parameter	Units	60211031002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1130	500	500	1600	1590	93	93	80-120	0	15	
Sulfate	mg/L	ND	500	500	507	510	90	91	80-120	1	15	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WETA/37767 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60210969001, 60210969002, 60210969003

METHOD BLANK: 1698752 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002, 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/19/16 08:36	

LABORATORY CONTROL SAMPLE: 1698753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1698754

Parameter	Units	60210944002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.76	2	2.9	107	90-110	

MATRIX SPIKE SAMPLE: 1698755

Parameter	Units	60210970005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	2	2.2	101	90-110	

SAMPLE DUPLICATE: 1698756

Parameter	Units	60210971002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	5.9	5.9	1	18	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WETA/37685 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60210969001, 60210969002, 60210969003

METHOD BLANK: 1695930 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002, 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.014	01/12/16 14:44	
Nitrogen, Nitrite	mg/L	ND	0.10	0.023	01/12/16 14:44	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	0.014	01/12/16 14:44	

LABORATORY CONTROL SAMPLE: 1695931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	101	85-115	
Nitrogen, Nitrite	mg/L	.4	0.38	96	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 1695932

Parameter	Units	60210951002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.21	1.6	1.9	104	85-115	
Nitrogen, Nitrite	mg/L	ND	.4	0.42	104	90-110	
Nitrogen, NO2 plus NO3	mg/L	0.21	2	2.3	104	90-110	

MATRIX SPIKE SAMPLE: 1695933

Parameter	Units	60210957002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	26.3	16	39.5	83	85-115	M1
Nitrogen, Nitrite	mg/L	ND	4	4.0	101	90-110	
Nitrogen, NO2 plus NO3	mg/L	26.3	20	43.5	86	90-110	M1

SAMPLE DUPLICATE: 1695934

Parameter	Units	60210963001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.052J	0.041J		20	
Nitrogen, Nitrite	mg/L	<0.023	ND		20	
Nitrogen, NO2 plus NO3	mg/L	0.052J	0.041J		20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WETA/37721 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60210969001, 60210969002

METHOD BLANK: 1696971 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/19/16 09:40	

LABORATORY CONTROL SAMPLE: 1696972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.6	112	80-120	

MATRIX SPIKE SAMPLE: 1696973

Parameter	Units	60210855001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.9	5	5.9	80	80-120	

SAMPLE DUPLICATE: 1696974

Parameter	Units	60210856002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	7.5	7.6	2	25	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WETA/37791 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60210969003

METHOD BLANK: 1699297 Matrix: Water
Associated Lab Samples: 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/20/16 13:31	

LABORATORY CONTROL SAMPLE: 1699298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.6	111	80-120	

MATRIX SPIKE SAMPLE: 1699299

Parameter	Units	60210969003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	0.55J	5	6.4	117	80-120	

SAMPLE DUPLICATE: 1699300

Parameter	Units	60210974001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WETA/10248
QC Batch Method: SM4500-P B
Analysis Method: SM 4500-P E
Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60210969001, 60210969002

METHOD BLANK: 195386 Matrix: Water
Associated Lab Samples: 60210969001, 60210969002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.014J	0.030	0.010	01/15/16 14:35	

LABORATORY CONTROL SAMPLE: 195387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.3	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195388 195389

Parameter	Units	7537074001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.091	1.5	1.5	1.9	1.4	117	88	80-120	27	20	R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195390 195391

Parameter	Units	60210924012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.28	1.5	1.5	2.4	1.5	139	80	80-120	46	20	M1,R1

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210969

QC Batch: WETA/10263
QC Batch Method: SM4500-P B
Analysis Method: SM 4500-P E
Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60210969003

METHOD BLANK: 195829
Matrix: Water
Associated Lab Samples: 60210969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.014J	0.030	0.010	01/19/16 15:52	

LABORATORY CONTROL SAMPLE: 195830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.4	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195831 195832

Parameter	Units	60210967013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.19	1.5	1.5	1.3	1.2	70	69	80-120	2	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195833 195834

Parameter	Units	60210974003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.39	1.5	1.5	1.4	1.6	67	78	80-120	11	20	M1

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QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60210969

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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LABORATORIES

PASI-D	Pace Analytical Services - Dallas
PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73727

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: WET/59730

[1] Ferrous Fe performed in the field

Batch: WET/59733

[1] Field pH

ANALYTE QUALIFIERS

H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210969

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210969001	MW-99-201601	EPA 8015 - Alcohol	GCSV/4868		
60210969002	MW-184-201601	EPA 8015 - Alcohol	GCSV/4868		
60210969003	MW-98-201601	EPA 8015 - Alcohol	GCSV/4868		
60210969001	MW-99-201601	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210969002	MW-184-201601	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210969003	MW-98-201601	EPA 3010	MPRP/34568	EPA 6010	ICP/25362
60210969001	MW-99-201601	EPA 5030B/8260	MSV/73727		
60210969002	MW-184-201601	EPA 5030B/8260	MSV/73727		
60210969003	MW-98-201601	EPA 5030B/8260	MSV/73727		
60210969001	MW-99-201601	SM 2320B	WET/59653		
60210969002	MW-184-201601	SM 2320B	WET/59653		
60210969003	MW-98-201601	SM 2320B	WET/59653		
60210969001	MW-99-201601	SM 3500-Fe B#4	WET/59730		
60210969002	MW-184-201601	SM 3500-Fe B#4	WET/59730		
60210969003	MW-98-201601	SM 3500-Fe B#4	WET/59730		
60210969001	MW-99-201601	SM 4500-H+B	WET/59733		
60210969002	MW-184-201601	SM 4500-H+B	WET/59733		
60210969003	MW-98-201601	SM 4500-H+B	WET/59733		
60210969001	MW-99-201601	SM 4500-S-2 D	WET/59530		
60210969002	MW-184-201601	SM 4500-S-2 D	WET/59530		
60210969003	MW-98-201601	SM 4500-S-2 D	WET/59530		
60210969001	MW-99-201601	EPA 300.0	WETA/37705		
60210969002	MW-184-201601	EPA 300.0	WETA/37705		
60210969003	MW-98-201601	EPA 300.0	WETA/37705		
60210969001	MW-99-201601	EPA 350.1	WETA/37767		
60210969002	MW-184-201601	EPA 350.1	WETA/37767		
60210969003	MW-98-201601	EPA 350.1	WETA/37767		
60210969001	MW-99-201601	EPA 353.2	WETA/37685		
60210969002	MW-184-201601	EPA 353.2	WETA/37685		
60210969003	MW-98-201601	EPA 353.2	WETA/37685		
60210969001	MW-99-201601	SM 4500-CO2 D	WETA/37845		
60210969002	MW-184-201601	SM 4500-CO2 D	WETA/37845		
60210969003	MW-98-201601	SM 4500-CO2 D	WETA/37845		
60210969001	MW-99-201601	SM 5310C	WETA/37721		
60210969002	MW-184-201601	SM 5310C	WETA/37721		
60210969003	MW-98-201601	SM 5310C	WETA/37791		
60210969001	MW-99-201601	SM4500-P B	WETA/10248	SM 4500-P E	WETA/10256
60210969002	MW-184-201601	SM4500-P B	WETA/10248	SM 4500-P E	WETA/10256
60210969003	MW-98-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267

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Sample Condition Upon Receipt

WO# : 60210969

60210969

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☑ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 2.5/5.1

Date and initials of person examining contents: DJ 1/12/16

Temperature should be above freezing to 6°C

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 holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. Ferr NO2/NO3 pH
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☐Yes ☑No ☐N/A	
Pace Trip Blank lot # (if purchased): _____		15.
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☑N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CBC Date: 01/12/16

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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 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Environ	Report To:	Wendy Stonestreet	Attention:	Tammy Gleason
Address:	7500 College Blvd., Ste. 925	Copy To:	Tammy Gleason	Company Name:	Environ
	Overland Park, KS 66210			Address:	250 Monroe Ave. NW Grand Rapids
Email To:	wstonestreet@environcorp.com	Purchase Order No.:	NA	Pace Quote Reference:	Michigan, 49503
Phone:	913-553-5926 Fax:	Project Name:	Fort Smith, AR	Pace Project Manager:	Colleen Clyne
Requested Due Date/TAT:	10 day TAT	Project Number:	34375000	Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: MATRIX / CODE	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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity + field pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
		DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS																																60210969
1	MW-99-201601 3DG4H 3DG9L	WT	G	1BP3U	1BP3S2.0	1/11/16	0935		11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N	1BP3S2.0	1BP3N2.0	1BP3Z11.0
2	MW-184-201601	WT	G				1105		11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N			
3	MW-98-201601	WT	G				1333		11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N			
4																																		
5																																		
6																																		
7																																		
8																																		
9																																		
10																																		
11																																		
12																																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE		ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Lucy Cross/Rambell ENVIRON	1/11/16	1830		1/12/16	0750	2-5	Y	Y	Y
							5-1	Y	Y	Y

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Lucy Cross					
SIGNATURE of SAMPLER:	Lucy Cross	DATE Signed (MM/DD/YY): 1/11/2016				

*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-Feb-2007

Chain of Custody

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www.pacelabs.com

Workorder: 60210969 **Workorder Name:** FORT SMITH AR **Owner Received Date:** 1/12/2016 **Results Requested By:** 1/22/2016

Report To	Subcontract To
Colleen Clyne Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Dallas 400 West Bethany Drive Suite 190 Allen, TX 75013 Phone (972)727-1123

						Preserved Containers						Requested Analysis												
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	BP3S	DG9U					8015 Chlorethanol	Total Phosphate											LAB USE ONLY
1	MW-99-201601	PS	1/11/2016 09:35	60210969001	Water	1	3					X	X											001
2	MW-184-201601	PS	1/11/2016 11:05	60210969002	Water	1	3					X	X											002
3	MW-98-201601	PS	1/11/2016 13:33	60210969003	Water	1	3					X	X											003
4																								
5																								

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	[signature]	1/12/16 1700	[signature]	1/13/16 09:05	
2					
3					

Cooler Temperature on Receipt 0.1 °C	Custody Seal Y or	Received on Ice Y or	Samples Intact Y or N
TR-02			

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

WO#: 7537280

7537280

Pace Analytical

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐San Angelo

Client Name: Pace - Kansas Project Work order: 75372980

Courier: FedEX ☑ UPS ☐ USPS ☐ Client ☐ Courier ☐ LSO ☐ PACE ☐ Other:

Tracking#: 6509 8163 6390

Custody Seal on Cooler/Box: Yes ☑ No ☐ Seals Intact: Yes ☑ No ☐ NA ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☑ Other ☐

Thermometer Used: IR-01 ~~IR-03~~ Type of Ice: Wet ☑ Blue ☐ None ☐ Sample Received on ice, cooling process has begun ☑

Cooler Temp: 0.1 (Temp should be above freezing to 6°C)

Chain of Custody Present	Yes ☑ No ☐ NA ☐	1
Chain of Custody filled out	Yes ☑ No ☐ NA ☐	2
Chain of Custody relinquished	Yes ☑ No ☐ NA ☐	3
Sampler name & signature on COC	Yes ☐ No ☑ NA ☐	4
Sample received within HT	Yes ☑ No ☐ NA ☐	5
Short HT analyses (<72 hrs)	Yes ☐ No ☑ NA ☐	6
Rush TAT requested	Yes ☐ No ☑ NA ☐	7
Sufficient Volume received	Yes ☑ No ☐ NA ☐	8
Correct Container used Pace Container used	Yes ☑ No ☐ NA ☐ Yes ☑ No ☐ NA ☐	9
Container Intact	Yes ☑ No ☐ NA ☐	10
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑	11
Filtered volume received for Dissolved tests	Yes ☐ No ☐ NA ☑	12
Sample labels match COC Include date/time/ID/analyses Matrix: WATER	Yes ☑ No ☐ NA ☐	13
All containers needing preservation have been checked	Yes ☑ No ☐ NA ☐	14a. Lot# of pH strip: 6412003 pH checked Yes ☑ No ☐ pH<2 ☑ pH>9 ☐ pH>12 ☐ Lot# of Iodine strip: Lot# of Lead Acetate strip:
Do containers require preservation at the lab	Yes ☐ No ☑ NA ☐	14b. Preservation: / Lot#:
All containers needing preservation are found to be in Compliance with EPA recommendation Exception: VOA, coliform, O&G	Yes ☑ No ☐ NA ☐ Yes ☑ No ☐	14c.
Are soil samples (volatiles) received in Bulk ☐ Terracore ☐ EnCore ☐ NA ☑		15.
Trip Blank present Trip Blank Custody Seals Intact Pace Trip Blank Lot# (if purchased):	Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑	16.
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☑	17.
Project sampled in USDA Regulated Area:	Yes ☐ No ☐ NA ☑	18. List State

Client Notification/Resolution/Comments:

Person Contacted: Date:

Comments/Resolution:

Person Examining Contents: Date: 1/13/16

Pace Analytical Services - Dallas

Sample Container Count-

COC PAGE 1 of 1

COC ID# _____

Pace Project # 7537280

Sample Line Item	AG1S	AG1U	AG3S	BG1S	BP1U	BP2N	BP2S	BP2U	BP20	SP5T	VG9H	DG9M	VG9U	VG9W	WGFU	WGKU	BP3C	GN	WG2U	BP3S				
1							1						3											
2							1						3											
3							1						3											
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Container Codes

AF	Air Filter	BP1A	1 liter NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic	R	terra core kit
AG1H	1L HCL Amber Glass	BP1N	1 liter HNO3 plastic	BP3U	250mL unpreserved plastic	SP5T	120mL Coliform Na Thiosulfate
AG1S	1L H2SO4 Amber Glass	BP1S	1 liter H2SO4 plastic	BP3Z	250mL NaOH, Zn Ac plastic	SP5U	120mL Coliform unpreserved
AG1T	1L Sodium Thiosulfate Amber	BP1U	1 liter unpreserved plastic	C	Air Cassettes	VG9H	40mL HCL clear vial
AG1U	1L Unpreserved Amber Glass	BP1Z	1 liter NaOH, Zn, Ac	DG9B	40mL Na Bisulfate amber vial	VG9T	40mL Na Thio. clear vial
AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plasti	DG9H	40mL HCL amber voa vial	VG9U	40mL unpreserved clear vial
AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	DG9M	40mL MeOH clear vial	VG9W	40mL Unpreserved Tared
AG2U	500mL unpreserved amber glas	BP2O	500mL NaOH plastic	DG9P	40mL TSP amber vial	VSG	Headspace septa vial & HCL
AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	DG9S	40mL H2SO4 amber vial	WGFU	4oz clear soil jar
AG3U	250mL unpreserved amber glas	BP2U	500mL unpreserved plastic	DG9T	40mL Na Thio amber vial	WGFX	4oz wide jar w/hexane wipe
BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac	DG9U	40mL unpreserved amber vial	WGKU	8oz wide jar upreserved
BG1S	1 liter H2SO4 clear glass	BP3A	250mL NaOh, Asc Acid plasti	GN	General unpreserved	WG2U	2oz clear jar
BG1T	1 liter Na Thiosulfate clear gla	BP3C	250mL NaOH plastic	I	Wipe/Swab	ZPLC	Ziploc Bag
BG1U	1 liter unpreserved glass	BP3N	250mL HNO3 plastic	JGFU	4oz unpreserved amber wide	Other	Other

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 27, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60210974

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

Dallas Certification IDs:

400 West Bethany Dr Suite 190, Allen, TX 75013
EPA# TX00074
Texas Certification #: T104704232-15-12
Texas Certification #: T104704232-14-8
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 2014-055
Louisiana Certification #: 02007

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SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60210974001	**MW-191-201601**	Water	01/11/16 14:46	01/12/16 07:50
60210974002	**MW-192-201601**	Water	01/11/16 12:42	01/12/16 07:50
60210974003	**MW-185-201601**	Water	01/11/16 09:56	01/12/16 07:50
60210974004	**MW-190-201601**	Water	01/11/16 17:00	01/12/16 07:50
60210974005	**MW-50R-201601**	Water	01/11/16 09:55	01/12/16 07:50
60210974006	**MW-60R-201601**	Water	01/11/16 12:15	01/12/16 07:50
60210974007	**MW-67R-201601**	Water	01/11/16 14:35	01/12/16 07:50
60210974008	**MW-66-201601**	Water	01/11/16 16:25	01/12/16 07:50
60210974009	**MW-193-201601**	Water	01/11/16 15:08	01/12/16 07:50
60210974010	**MW-62R-201601**	Water	01/11/16 11:35	01/12/16 07:50
60210974011	**MW-56R-201601**	Water	01/11/16 13:30	01/12/16 07:50
60210974012	**MW-57R-201601**	Water	01/11/16 15:00	01/12/16 07:50
60210974013	**MW-71-201601**	Water	01/11/16 16:15	01/12/16 07:50
60210974014	**EB-01-201601**	Water	01/11/16 17:13	01/12/16 07:50
60210974015	**TB-03-201601**	Water	01/11/16 08:00	01/12/16 07:50
60210974016	**TB-04-201601**	Water	01/11/16 08:00	01/12/16 07:50
60210974017	**TB-05-201601**	Water	01/11/16 08:00	01/12/16 07:50
60210974018	**TB-06-201601**	Water	01/11/16 08:00	01/12/16 07:50
60210974019	**EB-02-201601**	Water	01/11/16 17:50	01/12/16 07:50

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60210974001	**MW-191-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974002	**MW-192-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974003	**MW-185-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974004	**MW-190-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974005	**MW-50R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974006	**MW-60R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974007	**MW-67R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974008	**MW-66-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974009	**MW-193-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974010	**MW-62R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974011	**MW-56R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974012	**MW-57R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974013	**MW-71-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	TJG	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60210974014	**EB-01-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210974015	**TB-03-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210974016	**TB-04-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210974017	**TB-05-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210974018	**TB-06-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210974019	**EB-02-201601**	EPA 5030B/8260	PGH	38	PASI-K

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **EPA 8015 - Alcohol**
Description: Alcohol by Direct Inject GCFID
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for EPA 8015 - Alcohol. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 27, 2016

General Information:
19 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73727

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73728

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **SM 3500-Fe B#4**
Description: Iron, Ferric (Calculation)
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for SM 3500-Fe B#4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Ferrous Fe performed in the field
- QC Batch: WET / 59731

Ferrous Fe perfromed in the field
- QC Batch: WET / 59750

Analyte Comments:

QC Batch: WET/59750

1e: Total Iron was confirmed.
- MW-67R-201601 (Lab ID: 60210974007)
  - Iron, Ferric

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-185-201601 (Lab ID: 60210974003)
- MW-190-201601 (Lab ID: 60210974004)
- MW-191-201601 (Lab ID: 60210974001)
- MW-192-201601 (Lab ID: 60210974002)
- MW-193-201601 (Lab ID: 60210974009)
- MW-50R-201601 (Lab ID: 60210974005)
- MW-56R-201601 (Lab ID: 60210974011)
- MW-57R-201601 (Lab ID: 60210974012)
- MW-60R-201601 (Lab ID: 60210974006)
- MW-62R-201601 (Lab ID: 60210974010)
- MW-66-201601 (Lab ID: 60210974008)
- MW-67R-201601 (Lab ID: 60210974007)
- MW-71-201601 (Lab ID: 60210974013)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Field pH
- QC Batch: WET / 59734

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **EPA 350.1**
Description: 350.1 Ammonia
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37768

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211017006,60211019003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1698759)
  - Nitrogen, Ammonia
- MS (Lab ID: 1698760)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37686

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210964001,60210964002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1695937)
  - Nitrogen, Nitrite

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **SM 4500-CO2 D**
Description: Total Carbon Dioxide Calc
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for SM 4500-CO2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **SM 5310C**
Description: 5310C TOC
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Method: **SM 4500-P E**
Description: SM4500P-E, Total Phosphorus
Client: Environ_AR
Date: January 27, 2016

General Information:
13 samples were analyzed for SM 4500-P E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with SM4500-P B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/10263

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60210967013,60210974003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 195831)
  - Phosphate as P04
- MS (Lab ID: 195833)
  - Phosphate as P04
- MSD (Lab ID: 195832)
  - Phosphate as P04
- MSD (Lab ID: 195834)
  - Phosphate as P04

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-191-201601 **Lab ID: 60210974001** Collected: 01/11/16 14:46 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 16:17	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**358**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:07	7439-89-6	
Manganese	**177**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:07	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 13:33	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 13:33	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 13:33	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 13:33	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 13:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 13:33	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 13:33	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 13:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 13:33	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 13:33	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 13:33	67-66-3	
Chloromethane	**0.20J**	ug/L	1.0	0.080	1		01/13/16 13:33	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 13:33	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 13:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 13:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 13:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 13:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 13:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 13:33	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 13:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 13:33	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 13:33	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 13:33	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 13:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 13:33	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 13:33	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 13:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 13:33	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 13:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 13:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 13:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 13:33	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 13:33	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 13:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 13:33	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 13:33	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/13/16 13:33	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 13:33		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-191-201601 **Lab ID: 60210974001** Collected: 01/11/16 14:46 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**54.0**	mg/L	20.0	2.0	1		01/20/16 13:39		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:39		
Alkalinity, Total as CaCO3	**54.0**	mg/L	20.0	2.0	1		01/20/16 13:39		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.36**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.5**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:58	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**9.4**	mg/L	1.0	0.50	1		01/13/16 18:15	16887-00-6	
Sulfate	**5.5**	mg/L	1.0	0.24	1		01/13/16 18:15	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:04	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**4.4**	mg/L	0.10	0.014	1		01/12/16 15:13		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:13		
Nitrogen, NO2 plus NO3	**4.4**	mg/L	0.10	0.014	1		01/12/16 15:13		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**85.0**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 14:49	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.18**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:03		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-192-201601 **Lab ID: 60210974002** Collected: 01/11/16 12:42 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 16:28	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**354**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:13	7439-89-6	
Manganese	**129**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:13	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 13:48	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 13:48	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 13:48	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 13:48	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 13:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 13:48	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 13:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 13:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 13:48	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 13:48	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 13:48	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 13:48	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 13:48	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 13:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 13:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 13:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 13:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 13:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 13:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 13:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 13:48	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 13:48	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 13:48	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 13:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 13:48	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 13:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 13:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 13:48	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 13:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 13:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 13:48	79-00-5	
Trichloroethene	**0.30J**	ug/L	1.0	0.17	1		01/13/16 13:48	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 13:48	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 13:48	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 13:48	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 13:48	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/13/16 13:48	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 13:48		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-192-201601 **Lab ID: 60210974002** Collected: 01/11/16 12:42 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**22.7**	mg/L	20.0	2.0	1		01/20/16 13:43		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:43		
Alkalinity, Total as CaCO3	**22.7**	mg/L	20.0	2.0	1		01/20/16 13:43		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.35**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.6**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 13:59	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**10.7**	mg/L	1.0	0.50	1		01/13/16 18:29	16887-00-6	
Sulfate	**5.7**	mg/L	1.0	0.24	1		01/13/16 18:29	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:05	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.2**	mg/L	0.10	0.014	1		01/12/16 15:16		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:16		
Nitrogen, NO2 plus NO3	**2.2**	mg/L	0.10	0.014	1		01/12/16 15:16		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**131**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.62J**	mg/L	1.0	0.50	1		01/20/16 15:15	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.27**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:03		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-185-201601 **Lab ID: 60210974003** Collected: 01/11/16 09:56 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 16:39	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**5480**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:20	7439-89-6	
Manganese	**146**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:20	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 14:02	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 14:02	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 14:02	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 14:02	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 14:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 14:02	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 14:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 14:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 14:02	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 14:02	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 14:02	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 14:02	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 14:02	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 14:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 14:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 14:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 14:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 14:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 14:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 14:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 14:02	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 14:02	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 14:02	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 14:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 14:02	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 14:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 14:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 14:02	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 14:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 14:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 14:02	79-00-5	
Trichloroethene	**0.87J**	ug/L	1.0	0.17	1		01/13/16 14:02	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 14:02	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 14:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/13/16 14:02	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		01/13/16 14:02	17060-07-0	
Toluene-d8 (S)	104	%	80-120		1		01/13/16 14:02	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 14:02		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-185-201601 **Lab ID: 60210974003** Collected: 01/11/16 09:56 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:48		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:48		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/20/16 13:48		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**5.5**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.8**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.9**	mg/L	1.0	0.50	1		01/13/16 18:44	16887-00-6	
Sulfate	**8.4**	mg/L	1.0	0.24	1		01/13/16 18:44	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:06	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.89**	mg/L	0.10	0.014	1		01/12/16 15:16		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:16		
Nitrogen, NO2 plus NO3	**0.89**	mg/L	0.10	0.014	1		01/12/16 15:16		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 15:28	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.39**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:04		M1

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-190-201601 **Lab ID: 60210974004** Collected: 01/11/16 17:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 16:50	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**5670**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:22	7439-89-6	
Manganese	**84.9**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:22	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**5.1J**	ug/L	10.0	1.9	1		01/13/16 14:17	67-64-1	
Benzene	**0.10J**	ug/L	1.0	0.060	1		01/13/16 14:17	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 14:17	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 14:17	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 14:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 14:17	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 14:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 14:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 14:17	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 14:17	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 14:17	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 14:17	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 14:17	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 14:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 14:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 14:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 14:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 14:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 14:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 14:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 14:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 14:17	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 14:17	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 14:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 14:17	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 14:17	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 14:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 14:17	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 14:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 14:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 14:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 14:17	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 14:17	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 14:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/13/16 14:17	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120		1		01/13/16 14:17	17060-07-0	
Toluene-d8 (S)	105	%	80-120		1		01/13/16 14:17	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 14:17		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-190-201601 **Lab ID: 60210974004** Collected: 01/11/16 17:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 13:54		
Alkalinity, Carbonate (CaCO3)	**84.9**	mg/L	20.0	2.0	1		01/20/16 13:54		
Alkalinity, Total as CaCO3	**241**	mg/L	20.0	2.0	1		01/20/16 13:54		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**2.4**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**12.0**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**22.7**	mg/L	5.0	2.5	5		01/13/16 18:58	16887-00-6	
Sulfate	**8.1**	mg/L	1.0	0.24	1		01/13/16 19:41	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.45**	mg/L	0.10	0.046	1		01/19/16 09:08	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.88**	mg/L	0.10	0.014	1		01/12/16 15:17		
Nitrogen, Nitrite	**0.032J**	mg/L	0.10	0.023	1		01/12/16 15:17		
Nitrogen, NO2 plus NO3	**0.91**	mg/L	0.10	0.014	1		01/12/16 15:17		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**37.4**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.1**	mg/L	1.0	0.50	1		01/20/16 15:41	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.54**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:05		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-50R-201601 **Lab ID: 60210974005** Collected: 01/11/16 09:55 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 17:02	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**8420**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:24	7439-89-6	
Manganese	**184**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:24	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 14:31	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 14:31	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 14:31	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 14:31	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 14:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 14:31	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 14:31	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 14:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 14:31	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 14:31	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 14:31	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 14:31	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 14:31	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 14:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 14:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 14:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 14:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 14:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 14:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 14:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 14:31	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 14:31	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 14:31	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 14:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 14:31	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 14:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 14:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 14:31	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 14:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 14:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 14:31	79-00-5	
Trichloroethene	**0.42J**	ug/L	1.0	0.17	1		01/13/16 14:31	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 14:31	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 14:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 14:31	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/13/16 14:31	17060-07-0	
Toluene-d8 (S)	105	%	80-120		1		01/13/16 14:31	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 14:31		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-50R-201601 **Lab ID: 60210974005** Collected: 01/11/16 09:55 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**217**	mg/L	20.0	2.0	1		01/20/16 14:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 14:00		
Alkalinity, Total as CaCO3	**217**	mg/L	20.0	2.0	1		01/20/16 14:00		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**7.0**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.6**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**219**	mg/L	20.0	10.0	20		01/13/16 20:10	16887-00-6	
Sulfate	**9.6**	mg/L	1.0	0.24	1		01/13/16 19:56	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:11	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/12/16 15:18		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:18		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/12/16 15:18		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**310**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 15:54	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.59**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:05		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-60R-201601 **Lab ID: 60210974006** Collected: 01/11/16 12:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 17:13	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**2120**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:27	7439-89-6	
Manganese	**2460**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:27	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 18:08	67-64-1	
Benzene	**0.12J**	ug/L	1.0	0.060	1		01/13/16 18:08	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 18:08	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 18:08	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 18:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 18:08	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 18:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 18:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 18:08	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 18:08	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 18:08	67-66-3	
Chloromethane	**0.20J**	ug/L	1.0	0.080	1		01/13/16 18:08	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 18:08	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 18:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 18:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 18:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 18:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 18:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 18:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 18:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 18:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 18:08	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 18:08	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 18:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 18:08	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 18:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 18:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 18:08	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 18:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 18:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 18:08	79-00-5	
Trichloroethene	**0.22J**	ug/L	1.0	0.17	1		01/13/16 18:08	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 18:08	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 18:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/13/16 18:08	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 18:08	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/13/16 18:08	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 18:08		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-60R-201601 **Lab ID: 60210974006** Collected: 01/11/16 12:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**405**	mg/L	20.0	2.0	1		01/20/16 14:06		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 14:06		
Alkalinity, Total as CaCO3	**405**	mg/L	20.0	2.0	1		01/20/16 14:06		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**1.8**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**7.0**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**114**	mg/L	10.0	5.0	10		01/13/16 23:32	16887-00-6	
Sulfate	**33.1**	mg/L	5.0	1.2	5		01/13/16 23:18	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:14	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/12/16 15:19		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:19		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/12/16 15:19		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**441**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.64J**	mg/L	1.0	0.50	1		01/20/16 16:07	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.14**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:05		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-67R-201601 **Lab ID: 60210974007** Collected: 01/11/16 14:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 17:24	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**1960**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:29	7439-89-6	
Manganese	**1020**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:29	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 18:23	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 18:23	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 18:23	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 18:23	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 18:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 18:23	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 18:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 18:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 18:23	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 18:23	75-00-3	
Chloroform	**0.15J**	ug/L	1.0	0.14	1		01/13/16 18:23	67-66-3	
Chloromethane	**0.20J**	ug/L	1.0	0.080	1		01/13/16 18:23	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 18:23	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 18:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 18:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 18:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 18:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 18:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 18:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 18:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 18:23	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 18:23	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 18:23	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 18:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 18:23	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 18:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 18:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 18:23	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 18:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 18:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 18:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 18:23	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 18:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 18:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/13/16 18:23	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/13/16 18:23	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/13/16 18:23	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 18:23		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-67R-201601 **Lab ID: 60210974007** Collected: 01/11/16 14:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**299**	mg/L	20.0	2.0	1		01/20/16 14:22		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 14:22		
Alkalinity, Total as CaCO3	**299**	mg/L	20.0	2.0	1		01/20/16 14:22		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/27/16 00:00	7439-89-6	1e
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.8**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**107**	mg/L	10.0	5.0	10		01/14/16 12:12	16887-00-6	
Sulfate	**27.2**	mg/L	2.0	0.47	2		01/14/16 11:57	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:16	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/12/16 15:20		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:20		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/12/16 15:20		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**360**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.7**	mg/L	1.0	0.50	1		01/20/16 16:20	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.095**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:05		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-66-201601 **Lab ID: 60210974008** Collected: 01/11/16 16:25 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 17:35	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**7740**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:31	7439-89-6	
Manganese	**89.6**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:31	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 19:06	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 19:06	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 19:06	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 19:06	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 19:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 19:06	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 19:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 19:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 19:06	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 19:06	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 19:06	67-66-3	
Chloromethane	**0.16J**	ug/L	1.0	0.080	1		01/13/16 19:06	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 19:06	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 19:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 19:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 19:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 19:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 19:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 19:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 19:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 19:06	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 19:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 19:06	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 19:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 19:06	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 19:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 19:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 19:06	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 19:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 19:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 19:06	79-00-5	
Trichloroethene	**0.53J**	ug/L	1.0	0.17	1		01/13/16 19:06	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 19:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 19:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/13/16 19:06	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/13/16 19:06	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/13/16 19:06	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 19:06		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-66-201601 **Lab ID: 60210974008** Collected: 01/11/16 16:25 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**61.7**	mg/L	20.0	2.0	1		01/20/16 14:27		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 14:27		
Alkalinity, Total as CaCO3	**61.7**	mg/L	20.0	2.0	1		01/20/16 14:27		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**7.2**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.5**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.50	0.12	10		01/13/16 14:03	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**34.9**	mg/L	5.0	2.5	5		01/14/16 12:40	16887-00-6	
Sulfate	**3.1**	mg/L	1.0	0.24	1		01/14/16 12:26	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:17	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.43**	mg/L	0.10	0.014	1		01/12/16 15:21		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:21		
Nitrogen, NO2 plus NO3	**0.43**	mg/L	0.10	0.014	1		01/12/16 15:21		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**91.5**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.4**	mg/L	1.0	0.50	1		01/20/16 16:33	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.38**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:06		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-193-201601 **Lab ID: 60210974009** Collected: 01/11/16 15:08 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 17:47	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**3400**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:33	7439-89-6	
Manganese	**2050**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:33	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 18:37	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 18:37	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 18:37	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 18:37	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 18:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 18:37	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 18:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 18:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 18:37	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 18:37	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 18:37	67-66-3	
Chloromethane	**0.14J**	ug/L	1.0	0.080	1		01/13/16 18:37	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 18:37	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 18:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 18:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 18:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 18:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 18:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 18:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 18:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 18:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 18:37	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 18:37	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 18:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 18:37	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 18:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 18:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 18:37	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 18:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 18:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 18:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 18:37	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 18:37	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 18:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/13/16 18:37	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/13/16 18:37	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/13/16 18:37	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 18:37		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-193-201601 **Lab ID: 60210974009** Collected: 01/11/16 15:08 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**71.6**	mg/L	20.0	2.0	1		01/20/16 14:31		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 14:31		
Alkalinity, Total as CaCO3	**71.6**	mg/L	20.0	2.0	1		01/20/16 14:31		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**3.2**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.6**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:03	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**9.6**	mg/L	1.0	0.50	1		01/15/16 05:14	16887-00-6	
Sulfate	**37.0**	mg/L	5.0	1.2	5		01/15/16 05:29	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:18	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.27**	mg/L	0.10	0.014	1		01/12/16 15:22		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:22		
Nitrogen, NO2 plus NO3	**0.27**	mg/L	0.10	0.014	1		01/12/16 15:22		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**391**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.65J**	mg/L	1.0	0.50	1		01/20/16 17:13	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.19**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:06		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-62R-201601 **Lab ID: 60210974010** Collected: 01/11/16 11:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 17:58	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**285**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:35	7439-89-6	
Manganese	**944**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:35	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 18:52	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 18:52	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 18:52	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 18:52	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 18:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 18:52	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 18:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 18:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 18:52	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 18:52	75-00-3	
Chloroform	**0.33J**	ug/L	1.0	0.14	1		01/13/16 18:52	67-66-3	
Chloromethane	**0.13J**	ug/L	1.0	0.080	1		01/13/16 18:52	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 18:52	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 18:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 18:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 18:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 18:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 18:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 18:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 18:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 18:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 18:52	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 18:52	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 18:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 18:52	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 18:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 18:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 18:52	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 18:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 18:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 18:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 18:52	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 18:52	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 18:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/13/16 18:52	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		01/13/16 18:52	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/13/16 18:52	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 18:52		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-62R-201601 **Lab ID: 60210974010** Collected: 01/11/16 11:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**66.8**	mg/L	20.0	2.0	1		01/20/16 14:35		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/20/16 14:35		
Alkalinity, Total as CaCO3	**66.8**	mg/L	20.0	2.0	1		01/20/16 14:35		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.28**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.8**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:03	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**139**	mg/L	10.0	5.0	10		01/14/16 01:42	16887-00-6	
Sulfate	**7.4**	mg/L	1.0	0.24	1		01/14/16 01:27	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:19	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.033J**	mg/L	0.10	0.014	1		01/12/16 15:22		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:22		
Nitrogen, NO2 plus NO3	**0.033J**	mg/L	0.10	0.014	1		01/12/16 15:22		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**296**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 17:26	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.051**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:06		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-56R-201601 **Lab ID: 60210974011** Collected: 01/11/16 13:30 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 18:09	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**342**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:38	7439-89-6	
Manganese	**3140**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:38	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 19:36	67-64-1	
Benzene	**0.16J**	ug/L	1.0	0.060	1		01/13/16 19:36	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 19:36	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 19:36	75-25-2	
Bromomethane	**1.0J**	ug/L	5.0	0.16	1		01/13/16 19:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 19:36	78-93-3	
Carbon disulfide	**0.16J**	ug/L	5.0	0.12	1		01/13/16 19:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 19:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 19:36	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 19:36	75-00-3	
Chloroform	**0.70J**	ug/L	1.0	0.14	1		01/13/16 19:36	67-66-3	
Chloromethane	**0.20J**	ug/L	1.0	0.080	1		01/13/16 19:36	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 19:36	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 19:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 19:36	107-06-2	
1,1-Dichloroethene	**1.6**	ug/L	1.0	0.20	1		01/13/16 19:36	75-35-4	
cis-1,2-Dichloroethene	**19.2**	ug/L	1.0	0.080	1		01/13/16 19:36	156-59-2	
trans-1,2-Dichloroethene	**0.28J**	ug/L	1.0	0.20	1		01/13/16 19:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 19:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 19:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 19:36	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 19:36	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 19:36	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 19:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 19:36	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 19:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 19:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 19:36	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 19:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 19:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 19:36	79-00-5	
Trichloroethene	**408**	ug/L	5.0	0.85	5		01/14/16 14:20	79-01-6	
Vinyl chloride	**0.32J**	ug/L	1.0	0.13	1		01/13/16 19:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 19:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 19:36	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 19:36	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/13/16 19:36	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 19:36		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-56R-201601 **Lab ID: 60210974011** Collected: 01/11/16 13:30 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**127**	mg/L	20.0	2.0	1		01/21/16 11:21		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 11:21		
Alkalinity, Total as CaCO3	**127**	mg/L	20.0	2.0	1		01/21/16 11:21		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.34**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.2**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:03	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**152**	mg/L	20.0	10.0	20		01/14/16 02:11	16887-00-6	
Sulfate	**17.8**	mg/L	2.0	0.47	2		01/14/16 01:56	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:20	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/12/16 15:23		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:23		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/12/16 15:23		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**258**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.93J**	mg/L	1.0	0.50	1		01/20/16 17:39	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.077**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:06		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-57R-201601 **Lab ID: 60210974012** Collected: 01/11/16 15:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 18:20	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**1610**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:40	7439-89-6	
Manganese	**1020**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:40	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 19:50	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 19:50	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 19:50	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 19:50	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 19:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 19:50	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 19:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 19:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 19:50	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 19:50	75-00-3	
Chloroform	**0.23J**	ug/L	1.0	0.14	1		01/13/16 19:50	67-66-3	
Chloromethane	**0.21J**	ug/L	1.0	0.080	1		01/13/16 19:50	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 19:50	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 19:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 19:50	107-06-2	
1,1-Dichloroethene	**1.7**	ug/L	1.0	0.20	1		01/13/16 19:50	75-35-4	
cis-1,2-Dichloroethene	**15.7**	ug/L	1.0	0.080	1		01/13/16 19:50	156-59-2	
trans-1,2-Dichloroethene	**0.26J**	ug/L	1.0	0.20	1		01/13/16 19:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 19:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 19:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 19:50	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 19:50	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 19:50	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 19:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 19:50	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 19:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 19:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 19:50	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 19:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 19:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 19:50	79-00-5	
Trichloroethene	**422**	ug/L	5.0	0.85	5		01/14/16 14:35	79-01-6	
Vinyl chloride	**0.48J**	ug/L	1.0	0.13	1		01/13/16 19:50	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 19:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/13/16 19:50	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 19:50	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/13/16 19:50	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 19:50		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-57R-201601 **Lab ID: 60210974012** Collected: 01/11/16 15:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**92.2**	mg/L	20.0	2.0	1		01/21/16 11:26		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 11:26		
Alkalinity, Total as CaCO3	**92.2**	mg/L	20.0	2.0	1		01/21/16 11:26		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**1.6**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.8**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:03	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**160**	mg/L	20.0	10.0	20		01/14/16 13:24	16887-00-6	
Sulfate	**4.9**	mg/L	1.0	0.24	1		01/14/16 12:55	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:21	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/12/16 15:31		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:31		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/12/16 15:31		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**409**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.68J**	mg/L	1.0	0.50	1		01/20/16 17:52	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.11**	mg/L	0.030	0.010	1	01/19/16 08:21	01/19/16 16:07		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-71-201601 **Lab ID: 60210974013** Collected: 01/11/16 16:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/14/16 18:31	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**325**	ug/L	50.0	9.0	1	01/13/16 10:05	01/18/16 17:46	7439-89-6	
Manganese	**1330**	ug/L	5.0	2.4	1	01/13/16 10:05	01/18/16 17:46	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 19:21	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 19:21	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 19:21	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 19:21	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 19:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 19:21	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 19:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 19:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 19:21	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 19:21	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 19:21	67-66-3	
Chloromethane	**0.11J**	ug/L	1.0	0.080	1		01/13/16 19:21	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 19:21	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 19:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 19:21	107-06-2	
1,1-Dichloroethene	**1.3**	ug/L	1.0	0.20	1		01/13/16 19:21	75-35-4	
cis-1,2-Dichloroethene	**6.1**	ug/L	1.0	0.080	1		01/13/16 19:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 19:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 19:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 19:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 19:21	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 19:21	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 19:21	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 19:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 19:21	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 19:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 19:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 19:21	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 19:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 19:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 19:21	79-00-5	
Trichloroethene	**171**	ug/L	1.0	0.17	1		01/13/16 19:21	79-01-6	
Vinyl chloride	**0.40J**	ug/L	1.0	0.13	1		01/13/16 19:21	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 19:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	80-120		1		01/13/16 19:21	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 19:21	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/13/16 19:21	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 19:21		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: MW-71-201601 **Lab ID: 60210974013** Collected: 01/11/16 16:15 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**22.7**	mg/L	20.0	2.0	1		01/21/16 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 11:30		
Alkalinity, Total as CaCO3	**22.7**	mg/L	20.0	2.0	1		01/21/16 11:30		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.8**	Std. Units	0.10	0.10	1		01/25/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/13/16 14:04	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**227**	mg/L	20.0	10.0	20		01/14/16 03:08	16887-00-6	
Sulfate	**2.6**	mg/L	1.0	0.24	1		01/14/16 02:54	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 09:22	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/12/16 15:27		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/12/16 15:27		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/12/16 15:27		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**93.5**	mg/L	20.0	20.0	1		01/25/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 18:05	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.043**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:52		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: EB-01-201601 **Lab ID: 60210974014** Collected: 01/11/16 17:13 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 16:41	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 16:41	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 16:41	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 16:41	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 16:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 16:41	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 16:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 16:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 16:41	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 16:41	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 16:41	67-66-3	
Chloromethane	**0.15J**	ug/L	1.0	0.080	1		01/13/16 16:41	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 16:41	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 16:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 16:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 16:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 16:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 16:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 16:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 16:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 16:41	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 16:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 16:41	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 16:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 16:41	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 16:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 16:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 16:41	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 16:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 16:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 16:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 16:41	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 16:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 16:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/13/16 16:41	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/13/16 16:41	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/13/16 16:41	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 16:41		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: TB-03-201601 **Lab ID: 60210974015** Collected: 01/11/16 08:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 15:43	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 15:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 15:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 15:43	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 15:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 15:43	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 15:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 15:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 15:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 15:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 15:43	67-66-3	
Chloromethane	**0.15J**	ug/L	1.0	0.080	1		01/13/16 15:43	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 15:43	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 15:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 15:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 15:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 15:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 15:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 15:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 15:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 15:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 15:43	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 15:43	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 15:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 15:43	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 15:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 15:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 15:43	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 15:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 15:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 15:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 15:43	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 15:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 15:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/13/16 15:43	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 15:43	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/13/16 15:43	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 15:43		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: TB-04-201601 **Lab ID: 60210974016** Collected: 01/11/16 08:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 15:58	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 15:58	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 15:58	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 15:58	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 15:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 15:58	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 15:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 15:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 15:58	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 15:58	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 15:58	67-66-3	
Chloromethane	**0.081J**	ug/L	1.0	0.080	1		01/13/16 15:58	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 15:58	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 15:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 15:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 15:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 15:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 15:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 15:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 15:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 15:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 15:58	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 15:58	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 15:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 15:58	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 15:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 15:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 15:58	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 15:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 15:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 15:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 15:58	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 15:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 15:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/13/16 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120		1		01/13/16 15:58	17060-07-0	
Toluene-d8 (S)	106	%	80-120		1		01/13/16 15:58	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 15:58		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: TB-05-201601 **Lab ID: 60210974017** Collected: 01/11/16 08:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 16:12	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 16:12	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 16:12	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 16:12	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 16:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 16:12	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 16:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 16:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 16:12	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 16:12	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 16:12	67-66-3	
Chloromethane	**0.10J**	ug/L	1.0	0.080	1		01/13/16 16:12	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 16:12	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 16:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 16:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 16:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 16:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 16:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 16:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 16:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 16:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 16:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 16:12	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 16:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 16:12	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 16:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 16:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 16:12	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 16:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 16:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 16:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 16:12	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 16:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 16:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 16:12	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/13/16 16:12	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/13/16 16:12	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 16:12		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: TB-06-201601 **Lab ID: 60210974018** Collected: 01/11/16 08:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 16:27	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 16:27	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 16:27	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 16:27	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 16:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 16:27	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 16:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 16:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 16:27	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 16:27	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 16:27	67-66-3	
Chloromethane	**0.11J**	ug/L	1.0	0.080	1		01/13/16 16:27	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 16:27	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 16:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 16:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 16:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 16:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 16:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 16:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 16:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 16:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 16:27	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 16:27	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 16:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 16:27	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 16:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 16:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 16:27	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 16:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 16:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 16:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 16:27	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 16:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 16:27	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 16:27	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 16:27	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/13/16 16:27	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 16:27		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210974

Sample: EB-02-201601 **Lab ID: 60210974019** Collected: 01/11/16 17:50 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 16:55	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 16:55	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 16:55	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 16:55	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 16:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 16:55	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 16:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 16:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 16:55	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 16:55	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 16:55	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 16:55	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 16:55	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 16:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 16:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 16:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 16:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 16:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 16:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 16:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 16:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 16:55	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 16:55	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 16:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 16:55	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 16:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 16:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 16:55	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 16:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 16:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 16:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 16:55	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 16:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 16:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 16:55	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/13/16 16:55	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		01/13/16 16:55	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 16:55		

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: GCSV/4870 Analysis Method: EPA 8015 - Alcohol
QC Batch Method: EPA 8015 - Alcohol Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

METHOD BLANK: 194891 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/14/16 10:36	

LABORATORY CONTROL SAMPLE: 194892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	88400	88	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 194893 194894

Parameter	Units	60210967019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	102000	94400	102	94	40-140	8	40	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: MPRP/34569 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

METHOD BLANK: 1696263 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	9.0	01/18/16 17:05	
Manganese	ug/L	ND	5.0	2.4	01/18/16 17:05	

LABORATORY CONTROL SAMPLE: 1696264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9960	100	80-120	
Manganese	ug/L	1000	966	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696265 1696266

Parameter	Units	60210974001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	358	10000	10000	10200	10400	99	100	75-125	1	20	
Manganese	ug/L	177	1000	1000	1120	1130	94	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: MSV/73727 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005

METHOD BLANK: 1696308 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 09:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 09:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 09:11	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 09:11	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 09:11	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 09:11	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 09:11	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 09:11	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 09:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 09:11	
Acetone	ug/L	ND	10.0	1.9	01/13/16 09:11	
Benzene	ug/L	ND	1.0	0.060	01/13/16 09:11	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 09:11	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 09:11	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 09:11	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 09:11	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 09:11	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 09:11	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 09:11	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 09:11	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 09:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 09:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 09:11	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 09:11	
Ethylbenzene	ug/L	ND	1.0	0.18	01/13/16 09:11	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 09:11	
Styrene	ug/L	ND	1.0	0.12	01/13/16 09:11	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 09:11	
Toluene	ug/L	ND	1.0	0.17	01/13/16 09:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 09:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 09:11	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 09:11	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 09:11	
Xylene (Total)	ug/L	ND	3.0	0.42	01/13/16 09:11	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 09:11	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 09:11	
Toluene-d8 (S)	%	105	80-120		01/13/16 09:11	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

LABORATORY CONTROL SAMPLE: 1696309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.4	97	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	96	73-121	
1,1,2-Trichloroethane	ug/L	20	17.6	88	80-120	
1,1-Dichloroethane	ug/L	20	21.0	105	80-120	
1,1-Dichloroethene	ug/L	20	19.1	95	80-120	
1,2-Dichloroethane	ug/L	20	19.3	97	81-120	
1,2-Dichloropropane	ug/L	20	19.3	97	80-120	
2-Butanone (MEK)	ug/L	100	109	109	67-122	
2-Hexanone	ug/L	100	109	109	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	76-120	
Acetone	ug/L	100	118	118	72-120	
Benzene	ug/L	20	20.3	102	80-120	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	17.6	88	73-138	
Bromomethane	ug/L	20	22.2	111	38-137	
Carbon disulfide	ug/L	20	21.1	105	71-129	
Carbon tetrachloride	ug/L	20	19.0	95	67-146	
Chlorobenzene	ug/L	20	19.7	99	80-120	
Chloroethane	ug/L	20	18.7	94	76-120	
Chloroform	ug/L	20	18.4	92	80-120	
Chloromethane	ug/L	20	20.4	102	34-165	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	80-120	
Dibromochloromethane	ug/L	20	19.1	96	80-126	
Ethylbenzene	ug/L	20	20.7	104	80-120	
Methylene chloride	ug/L	20	20.0	100	80-120	
Styrene	ug/L	20	22.0	110	80-123	
Tetrachloroethene	ug/L	20	18.1	91	80-123	
Toluene	ug/L	20	19.8	99	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.1	100	80-129	
Trichloroethene	ug/L	20	18.5	93	80-120	
Vinyl chloride	ug/L	20	22.0	110	62-125	
Xylene (Total)	ug/L	60	64.7	108	80-120	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: MSV/73728 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013, 60210974014, 60210974015, 60210974016, 60210974017, 60210974018, 60210974019

METHOD BLANK: 1696364 Matrix: Water
Associated Lab Samples: 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013, 60210974014, 60210974015, 60210974016, 60210974017, 60210974018, 60210974019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 15:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 15:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 15:29	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 15:29	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 15:29	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 15:29	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 15:29	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 15:29	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 15:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 15:29	
Acetone	ug/L	ND	10.0	1.9	01/13/16 15:29	
Benzene	ug/L	ND	1.0	0.060	01/13/16 15:29	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 15:29	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 15:29	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 15:29	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 15:29	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 15:29	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 15:29	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 15:29	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 15:29	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 15:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 15:29	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 15:29	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 15:29	
Ethylbenzene	ug/L	ND	1.0	0.18	01/13/16 15:29	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 15:29	
Styrene	ug/L	ND	1.0	0.12	01/13/16 15:29	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 15:29	
Toluene	ug/L	ND	1.0	0.17	01/13/16 15:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 15:29	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 15:29	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 15:29	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 15:29	
Xylene (Total)	ug/L	ND	3.0	0.42	01/13/16 15:29	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 15:29	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 15:29	
Toluene-d8 (S)	%	103	80-120		01/13/16 15:29	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

LABORATORY CONTROL SAMPLE: 1696365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.8	94	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	21.1	106	73-121	
1,1,2-Trichloroethane	ug/L	20	19.4	97	80-120	
1,1-Dichloroethane	ug/L	20	19.4	97	80-120	
1,1-Dichloroethene	ug/L	20	17.5	88	80-120	
1,2-Dichloroethane	ug/L	20	19.7	99	81-120	
1,2-Dichloropropane	ug/L	20	19.8	99	80-120	
2-Butanone (MEK)	ug/L	100	112	112	67-122	
2-Hexanone	ug/L	100	119	119	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	114	114	76-120	
Acetone	ug/L	100	119	119	72-120	
Benzene	ug/L	20	20.5	103	80-120	
Bromodichloromethane	ug/L	20	19.5	97	80-120	
Bromoform	ug/L	20	18.8	94	73-138	
Bromomethane	ug/L	20	23.2	116	38-137	
Carbon disulfide	ug/L	20	19.2	96	71-129	
Carbon tetrachloride	ug/L	20	18.7	94	67-146	
Chlorobenzene	ug/L	20	20.5	103	80-120	
Chloroethane	ug/L	20	19.4	97	76-120	
Chloroform	ug/L	20	17.9	89	80-120	
Chloromethane	ug/L	20	21.3	106	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.3	91	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.8	99	80-120	
Dibromochloromethane	ug/L	20	20.6	103	80-126	
Ethylbenzene	ug/L	20	20.9	104	80-120	
Methylene chloride	ug/L	20	19.4	97	80-120	
Styrene	ug/L	20	20.8	104	80-123	
Tetrachloroethene	ug/L	20	19.6	98	80-123	
Toluene	ug/L	20	20.9	105	80-120	
trans-1,2-Dichloroethene	ug/L	20	17.9	89	80-120	
trans-1,3-Dichloropropene	ug/L	20	21.9	110	80-129	
Trichloroethene	ug/L	20	17.9	90	80-120	
Vinyl chloride	ug/L	20	21.1	106	62-125	
Xylene (Total)	ug/L	60	61.7	103	80-120	
1,2-Dichloroethane-d4 (S)	%			105	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			106	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: MSV/73748
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210974011, 60210974012

METHOD BLANK: 1696916 Matrix: Water
Associated Lab Samples: 60210974011, 60210974012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	0.17	01/14/16 09:29	
1,2-Dichloroethane-d4 (S)	%	106	80-120		01/14/16 09:29	
4-Bromofluorobenzene (S)	%	98	80-120		01/14/16 09:29	
Toluene-d8 (S)	%	100	80-120		01/14/16 09:29	

LABORATORY CONTROL SAMPLE: 1696917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	20	18.1	90	80-120	
1,2-Dichloroethane-d4 (S)	%			107	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696926 1696927

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichloroethene	ug/L	0.26J	20	20	19.2	19.3	95	95	70-135	1	10	
1,2-Dichloroethane-d4 (S)	%						105	108	80-120			
4-Bromofluorobenzene (S)	%						105	102	80-120			
Toluene-d8 (S)	%						103	99	80-120			

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WET/59653 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010

METHOD BLANK: 1699425 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/20/16 12:24	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/20/16 12:24	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/20/16 12:24	

LABORATORY CONTROL SAMPLE: 1699426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	490	98	90-110	

SAMPLE DUPLICATE: 1699427

Parameter	Units	60210967014 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	175	179	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	175	179	2	10	

SAMPLE DUPLICATE: 1699428

Parameter	Units	60210969002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	51.2	51.2	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	51.2	51.2	0	10	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WET/59679 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60210974011, 60210974012, 60210974013

METHOD BLANK: 1700120 Matrix: Water
Associated Lab Samples: 60210974011, 60210974012, 60210974013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/21/16 11:16	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/21/16 11:16	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/21/16 11:16	

LABORATORY CONTROL SAMPLE: 1700121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	504	101	90-110	

SAMPLE DUPLICATE: 1700122

Parameter	Units	60211085009 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	51.8	52.1	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	51.8	52.1	0	10	

SAMPLE DUPLICATE: 1700123

Parameter	Units	60211085012 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	126	126	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	126	126	0	10	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WET/59530 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007

METHOD BLANK: 1696147 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/13/16 13:39	

LABORATORY CONTROL SAMPLE: 1696148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.52	105	80-120	

MATRIX SPIKE SAMPLE: 1696149

Parameter	Units	60210924011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.40	81	75-125	

SAMPLE DUPLICATE: 1696150

Parameter	Units	60210924012 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1696151

Parameter	Units	60210967019 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WET/59531 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

METHOD BLANK: 1696164 Matrix: Water
Associated Lab Samples: 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/13/16 14:01	

LABORATORY CONTROL SAMPLE: 1696165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.53	105	80-120	

MATRIX SPIKE SAMPLE: 1696166

Parameter	Units	60210974008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.50	100	75-125	

SAMPLE DUPLICATE: 1696167

Parameter	Units	60210974009 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/37703 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005

METHOD BLANK: 1696186 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/13/16 09:08	
Sulfate	mg/L	ND	1.0	0.25	01/13/16 09:08	

LABORATORY CONTROL SAMPLE: 1696187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	95	90-110	
Sulfate	mg/L	5	4.7	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696188 1696189

Parameter	Units	60210999001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	5	5	10.1	10	93	91	80-120	1	15	
Sulfate	mg/L	32.3	25	25	54.2	54.6	88	89	80-120	1	15	

MATRIX SPIKE SAMPLE: 1696190

Parameter	Units	60211007001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	515	250	748	93	80-120	
Sulfate	mg/L	2840	1000	3710	87	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/37705 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60210974006, 60210974010, 60210974011, 60210974013

METHOD BLANK: 1696310 Matrix: Water
Associated Lab Samples: 60210974006, 60210974010, 60210974011, 60210974013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/13/16 21:22	
Sulfate	mg/L	ND	1.0	0.25	01/13/16 21:22	

LABORATORY CONTROL SAMPLE: 1696311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.2	104	90-110	
Sulfate	mg/L	5	4.7	94	90-110	

MATRIX SPIKE SAMPLE: 1696312

Parameter	Units	60210969001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5.5	5	10.2	94	80-120	
Sulfate	mg/L	6.9	5	11.4	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696313 1696314

Parameter	Units	60211031002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1130	500	500	1600	1590	93	93	80-120	0	15	
Sulfate	mg/L	ND	500	500	507	510	90	91	80-120	1	15	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/37724 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60210974007, 60210974008, 60210974012

METHOD BLANK: 1697101 Matrix: Water
Associated Lab Samples: 60210974007, 60210974008, 60210974012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/14/16 08:55	
Sulfate	mg/L	ND	1.0	0.25	01/14/16 08:55	

LABORATORY CONTROL SAMPLE: 1697102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	
Sulfate	mg/L	5	4.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697103 1697104

Parameter	Units	60211146001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1400	1000	1000	2330	2350	93	95	80-120	1	15	
Sulfate	mg/L	ND	1000	1000	1010	1020	90	91	80-120	1	15	

MATRIX SPIKE SAMPLE: 1697105

Parameter	Units	60210974012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	160	100	252	92	80-120	
Sulfate	mg/L	4.9	5	9.5	92	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/37727 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60210974009

METHOD BLANK: 1697242 Matrix: Water
Associated Lab Samples: 60210974009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/14/16 22:02	
Sulfate	mg/L	ND	1.0	0.25	01/14/16 22:02	

LABORATORY CONTROL SAMPLE: 1697243

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	
Sulfate	mg/L	5	4.8	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697244 1697245

Parameter	Units	60211187002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	266	125	125	382	381	93	92	80-120	0	15	
Sulfate	mg/L	ND	125	125	122	123	94	94	80-120	0	15	

MATRIX SPIKE SAMPLE: 1697246

Parameter	Units	60211178001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1210	1000	2150	95	80-120	
Sulfate	mg/L	2040	1000	2930	90	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/37767 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004

METHOD BLANK: 1698752 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/19/16 08:36	

LABORATORY CONTROL SAMPLE: 1698753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1698754

Parameter	Units	60210944002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.76	2	2.9	107	90-110	

MATRIX SPIKE SAMPLE: 1698755

Parameter	Units	60210970005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	2	2.2	101	90-110	

SAMPLE DUPLICATE: 1698756

Parameter	Units	60210971002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	5.9	5.9	1	18	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/37768 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

METHOD BLANK: 1698757 Matrix: Water
Associated Lab Samples: 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/19/16 09:09	

LABORATORY CONTROL SAMPLE: 1698758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.2	108	90-110	

MATRIX SPIKE SAMPLE: 1698759

Parameter	Units	60211017006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.19	2	2.6	119	90-110	M1

MATRIX SPIKE SAMPLE: 1698760

Parameter	Units	60211019003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1.2	2	3.5	113	90-110	M1

SAMPLE DUPLICATE: 1698761

Parameter	Units	60211021003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	2.4	2.3	2	18	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/37686 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

METHOD BLANK: 1695935 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.014	01/12/16 15:06	
Nitrogen, Nitrite	mg/L	ND	0.10	0.023	01/12/16 15:06	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	0.014	01/12/16 15:06	

LABORATORY CONTROL SAMPLE: 1695936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.7	103	85-115	
Nitrogen, Nitrite	mg/L	.4	0.38	95	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1695937

Parameter	Units	60210964001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.044J	1.6	1.7	106	85-115	
Nitrogen, Nitrite	mg/L	<0.023	.4	0.50	120	90-110	M1
Nitrogen, NO2 plus NO3	mg/L	0.060J	2	2.2	109	90-110	

MATRIX SPIKE SAMPLE: 1695938

Parameter	Units	60210964002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.18	1.6	1.9	105	85-115	
Nitrogen, Nitrite	mg/L	<0.023	.4	0.42	106	90-110	
Nitrogen, NO2 plus NO3	mg/L	0.18	2	2.3	105	90-110	

SAMPLE DUPLICATE: 1695939

Parameter	Units	60210965001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.36	0.36	0	20	
Nitrogen, Nitrite	mg/L	<0.023	ND		20	
Nitrogen, NO2 plus NO3	mg/L	0.36	0.36	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/37791 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

METHOD BLANK: 1699297 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012, 60210974013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/20/16 13:31	

LABORATORY CONTROL SAMPLE: 1699298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.6	111	80-120	

MATRIX SPIKE SAMPLE: 1699299

Parameter	Units	60210969003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	0.55J	5	6.4	117	80-120	

SAMPLE DUPLICATE: 1699300

Parameter	Units	60210974001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/10263 Analysis Method: SM 4500-P E
QC Batch Method: SM4500-P B Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012

METHOD BLANK: 195829 Matrix: Water
Associated Lab Samples: 60210974001, 60210974002, 60210974003, 60210974004, 60210974005, 60210974006, 60210974007, 60210974008, 60210974009, 60210974010, 60210974011, 60210974012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.014J	0.030	0.010	01/19/16 15:52	

LABORATORY CONTROL SAMPLE: 195830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.4	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195831 195832

Parameter	Units	60210967013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.19	1.5	1.5	1.3	1.2	70	69	80-120	2	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195833 195834

Parameter	Units	60210974003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.39	1.5	1.5	1.4	1.6	67	78	80-120	11	20	M1

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210974

QC Batch: WETA/10277
QC Batch Method: SM4500-P B
Analysis Method: SM 4500-P E
Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60210974013

METHOD BLANK: 196224 Matrix: Water
Associated Lab Samples: 60210974013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.018J	0.030	0.010	01/20/16 15:51	

LABORATORY CONTROL SAMPLE: 196225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.3	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196226 196227

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.080	1.5	1.5	1.4	1.4	88	85	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196228 196229

Parameter	Units	60211085012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.095	1.5	1.5	1.4	1.4	84	87	80-120	2	20	

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QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60210974

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-D	Pace Analytical Services - Dallas
PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73727
- [M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/73728
- [M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: WET/59731
- [1] Ferrous Fe performed in the field

Batch: WET/59734
- [1] Field pH

Batch: WET/59750
- [1] Ferrous Fe perfromed in the field

ANALYTE QUALIFIERS

1e	Total Iron was confirmed.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210974001	MW-191-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974002	MW-192-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974003	MW-185-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974004	MW-190-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974005	MW-50R-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974006	MW-60R-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974007	MW-67R-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974008	MW-66-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974009	MW-193-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974010	MW-62R-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974011	MW-56R-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974012	MW-57R-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974013	MW-71-201601	EPA 8015 - Alcohol	GCSV/4870		
60210974001	MW-191-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974002	MW-192-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974003	MW-185-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974004	MW-190-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974005	MW-50R-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974006	MW-60R-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974007	MW-67R-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974008	MW-66-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974009	MW-193-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974010	MW-62R-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974011	MW-56R-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974012	MW-57R-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974013	MW-71-201601	EPA 3010	MPRP/34569	EPA 6010	ICP/25361
60210974001	MW-191-201601	EPA 5030B/8260	MSV/73727		
60210974002	MW-192-201601	EPA 5030B/8260	MSV/73727		
60210974003	MW-185-201601	EPA 5030B/8260	MSV/73727		
60210974004	MW-190-201601	EPA 5030B/8260	MSV/73727		
60210974005	MW-50R-201601	EPA 5030B/8260	MSV/73727		
60210974006	MW-60R-201601	EPA 5030B/8260	MSV/73728		
60210974007	MW-67R-201601	EPA 5030B/8260	MSV/73728		
60210974008	MW-66-201601	EPA 5030B/8260	MSV/73728		
60210974009	MW-193-201601	EPA 5030B/8260	MSV/73728		
60210974010	MW-62R-201601	EPA 5030B/8260	MSV/73728		
60210974011	MW-56R-201601	EPA 5030B/8260	MSV/73728		
60210974011	MW-56R-201601	EPA 5030B/8260	MSV/73748		
60210974012	MW-57R-201601	EPA 5030B/8260	MSV/73728		
60210974012	MW-57R-201601	EPA 5030B/8260	MSV/73748		
60210974013	MW-71-201601	EPA 5030B/8260	MSV/73728		
60210974014	EB-01-201601	EPA 5030B/8260	MSV/73728		
60210974015	TB-03-201601	EPA 5030B/8260	MSV/73728		
60210974016	TB-04-201601	EPA 5030B/8260	MSV/73728		
60210974017	TB-05-201601	EPA 5030B/8260	MSV/73728		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210974018	**TB-06-201601**	EPA 5030B/8260	MSV/73728		
60210974019	**EB-02-201601**	EPA 5030B/8260	MSV/73728		
60210974001	**MW-191-201601**	SM 2320B	WET/59653		
60210974002	**MW-192-201601**	SM 2320B	WET/59653		
60210974003	**MW-185-201601**	SM 2320B	WET/59653		
60210974004	**MW-190-201601**	SM 2320B	WET/59653		
60210974005	**MW-50R-201601**	SM 2320B	WET/59653		
60210974006	**MW-60R-201601**	SM 2320B	WET/59653		
60210974007	**MW-67R-201601**	SM 2320B	WET/59653		
60210974008	**MW-66-201601**	SM 2320B	WET/59653		
60210974009	**MW-193-201601**	SM 2320B	WET/59653		
60210974010	**MW-62R-201601**	SM 2320B	WET/59653		
60210974011	**MW-56R-201601**	SM 2320B	WET/59679		
60210974012	**MW-57R-201601**	SM 2320B	WET/59679		
60210974013	**MW-71-201601**	SM 2320B	WET/59679		
60210974001	**MW-191-201601**	SM 3500-Fe B#4	WET/59731		
60210974002	**MW-192-201601**	SM 3500-Fe B#4	WET/59731		
60210974003	**MW-185-201601**	SM 3500-Fe B#4	WET/59731		
60210974004	**MW-190-201601**	SM 3500-Fe B#4	WET/59731		
60210974005	**MW-50R-201601**	SM 3500-Fe B#4	WET/59731		
60210974006	**MW-60R-201601**	SM 3500-Fe B#4	WET/59731		
60210974007	**MW-67R-201601**	SM 3500-Fe B#4	WET/59750		
60210974008	**MW-66-201601**	SM 3500-Fe B#4	WET/59731		
60210974009	**MW-193-201601**	SM 3500-Fe B#4	WET/59731		
60210974010	**MW-62R-201601**	SM 3500-Fe B#4	WET/59731		
60210974011	**MW-56R-201601**	SM 3500-Fe B#4	WET/59731		
60210974012	**MW-57R-201601**	SM 3500-Fe B#4	WET/59731		
60210974013	**MW-71-201601**	SM 3500-Fe B#4	WET/59731		
60210974001	**MW-191-201601**	SM 4500-H+B	WET/59734		
60210974002	**MW-192-201601**	SM 4500-H+B	WET/59734		
60210974003	**MW-185-201601**	SM 4500-H+B	WET/59734		
60210974004	**MW-190-201601**	SM 4500-H+B	WET/59734		
60210974005	**MW-50R-201601**	SM 4500-H+B	WET/59734		
60210974006	**MW-60R-201601**	SM 4500-H+B	WET/59734		
60210974007	**MW-67R-201601**	SM 4500-H+B	WET/59734		
60210974008	**MW-66-201601**	SM 4500-H+B	WET/59734		
60210974009	**MW-193-201601**	SM 4500-H+B	WET/59734		
60210974010	**MW-62R-201601**	SM 4500-H+B	WET/59734		
60210974011	**MW-56R-201601**	SM 4500-H+B	WET/59734		
60210974012	**MW-57R-201601**	SM 4500-H+B	WET/59734		
60210974013	**MW-71-201601**	SM 4500-H+B	WET/59734		
60210974001	**MW-191-201601**	SM 4500-S-2 D	WET/59530		
60210974002	**MW-192-201601**	SM 4500-S-2 D	WET/59530		
60210974003	**MW-185-201601**	SM 4500-S-2 D	WET/59530		
60210974004	**MW-190-201601**	SM 4500-S-2 D	WET/59530		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210974005	MW-50R-201601	SM 4500-S-2 D	WET/59530		
60210974006	MW-60R-201601	SM 4500-S-2 D	WET/59530		
60210974007	MW-67R-201601	SM 4500-S-2 D	WET/59530		
60210974008	MW-66-201601	SM 4500-S-2 D	WET/59531		
60210974009	MW-193-201601	SM 4500-S-2 D	WET/59531		
60210974010	MW-62R-201601	SM 4500-S-2 D	WET/59531		
60210974011	MW-56R-201601	SM 4500-S-2 D	WET/59531		
60210974012	MW-57R-201601	SM 4500-S-2 D	WET/59531		
60210974013	MW-71-201601	SM 4500-S-2 D	WET/59531		
60210974001	MW-191-201601	EPA 300.0	WETA/37703		
60210974002	MW-192-201601	EPA 300.0	WETA/37703		
60210974003	MW-185-201601	EPA 300.0	WETA/37703		
60210974004	MW-190-201601	EPA 300.0	WETA/37703		
60210974005	MW-50R-201601	EPA 300.0	WETA/37703		
60210974006	MW-60R-201601	EPA 300.0	WETA/37705		
60210974007	MW-67R-201601	EPA 300.0	WETA/37724		
60210974008	MW-66-201601	EPA 300.0	WETA/37724		
60210974009	MW-193-201601	EPA 300.0	WETA/37727		
60210974010	MW-62R-201601	EPA 300.0	WETA/37705		
60210974011	MW-56R-201601	EPA 300.0	WETA/37705		
60210974012	MW-57R-201601	EPA 300.0	WETA/37724		
60210974013	MW-71-201601	EPA 300.0	WETA/37705		
60210974001	MW-191-201601	EPA 350.1	WETA/37767		
60210974002	MW-192-201601	EPA 350.1	WETA/37767		
60210974003	MW-185-201601	EPA 350.1	WETA/37767		
60210974004	MW-190-201601	EPA 350.1	WETA/37767		
60210974005	MW-50R-201601	EPA 350.1	WETA/37768		
60210974006	MW-60R-201601	EPA 350.1	WETA/37768		
60210974007	MW-67R-201601	EPA 350.1	WETA/37768		
60210974008	MW-66-201601	EPA 350.1	WETA/37768		
60210974009	MW-193-201601	EPA 350.1	WETA/37768		
60210974010	MW-62R-201601	EPA 350.1	WETA/37768		
60210974011	MW-56R-201601	EPA 350.1	WETA/37768		
60210974012	MW-57R-201601	EPA 350.1	WETA/37768		
60210974013	MW-71-201601	EPA 350.1	WETA/37768		
60210974001	MW-191-201601	EPA 353.2	WETA/37686		
60210974002	MW-192-201601	EPA 353.2	WETA/37686		
60210974003	MW-185-201601	EPA 353.2	WETA/37686		
60210974004	MW-190-201601	EPA 353.2	WETA/37686		
60210974005	MW-50R-201601	EPA 353.2	WETA/37686		
60210974006	MW-60R-201601	EPA 353.2	WETA/37686		
60210974007	MW-67R-201601	EPA 353.2	WETA/37686		
60210974008	MW-66-201601	EPA 353.2	WETA/37686		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210974009	MW-193-201601	EPA 353.2	WETA/37686		
60210974010	MW-62R-201601	EPA 353.2	WETA/37686		
60210974011	MW-56R-201601	EPA 353.2	WETA/37686		
60210974012	MW-57R-201601	EPA 353.2	WETA/37686		
60210974013	MW-71-201601	EPA 353.2	WETA/37686		
60210974001	MW-191-201601	SM 4500-CO2 D	WETA/37846		
60210974002	MW-192-201601	SM 4500-CO2 D	WETA/37846		
60210974003	MW-185-201601	SM 4500-CO2 D	WETA/37846		
60210974004	MW-190-201601	SM 4500-CO2 D	WETA/37846		
60210974005	MW-50R-201601	SM 4500-CO2 D	WETA/37846		
60210974006	MW-60R-201601	SM 4500-CO2 D	WETA/37846		
60210974007	MW-67R-201601	SM 4500-CO2 D	WETA/37846		
60210974008	MW-66-201601	SM 4500-CO2 D	WETA/37846		
60210974009	MW-193-201601	SM 4500-CO2 D	WETA/37846		
60210974010	MW-62R-201601	SM 4500-CO2 D	WETA/37846		
60210974011	MW-56R-201601	SM 4500-CO2 D	WETA/37846		
60210974012	MW-57R-201601	SM 4500-CO2 D	WETA/37846		
60210974013	MW-71-201601	SM 4500-CO2 D	WETA/37846		
60210974001	MW-191-201601	SM 5310C	WETA/37791		
60210974002	MW-192-201601	SM 5310C	WETA/37791		
60210974003	MW-185-201601	SM 5310C	WETA/37791		
60210974004	MW-190-201601	SM 5310C	WETA/37791		
60210974005	MW-50R-201601	SM 5310C	WETA/37791		
60210974006	MW-60R-201601	SM 5310C	WETA/37791		
60210974007	MW-67R-201601	SM 5310C	WETA/37791		
60210974008	MW-66-201601	SM 5310C	WETA/37791		
60210974009	MW-193-201601	SM 5310C	WETA/37791		
60210974010	MW-62R-201601	SM 5310C	WETA/37791		
60210974011	MW-56R-201601	SM 5310C	WETA/37791		
60210974012	MW-57R-201601	SM 5310C	WETA/37791		
60210974013	MW-71-201601	SM 5310C	WETA/37791		
60210974001	MW-191-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974002	MW-192-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974003	MW-185-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974004	MW-190-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974005	MW-50R-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974006	MW-60R-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974007	MW-67R-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974008	MW-66-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974009	MW-193-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974010	MW-62R-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974011	MW-56R-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974012	MW-57R-201601	SM4500-P B	WETA/10263	SM 4500-P E	WETA/10267
60210974013	MW-71-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287

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without the written consent of Pace Analytical Services, Inc..

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Sample Condition Upon Receipt

WO# : 60210974

60210974

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☑ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 2-3/4-9/5.14-3

Temperature should be above freezing to 6°C

Date and initials of person examining contents: PW 1/12/16

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 holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. NO2 NO3 Fe2+ pH
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8. samples receive with TB
Correct containers used:	☑Yes ☐No ☐N/A	~~1=TB1~~
Pace containers used:	☑Yes ☐No ☐N/A	~~II=TB2~~ 9. PW 1/12/16
Containers intact:	☑Yes ☐No ☐N/A	10. III=TB3
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11. IIII=TB4
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12. 5=TB5
Sample labels match COC:	☑Yes ☐No ☐N/A	6=TB6
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): Cover		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☑N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CBL Date: 01/12/16

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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 2

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	10 day TAT

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	34375000

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	8260 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity + field pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-191-20160l 3D69H 3D69H	WT	G	1/8/16	1845	1/11/16	1446		11								X		X	X	X	X	X	X	X	X	X	X	N	60210974
2	MW-192-20160l						1242		11								X		X	X	X	X	X	X	X	X	X	X	N	002
3	MW-185-20160l						0956		11								X		X	X	X	X	X	X	X	X	X	X	N	003
4	MW-190-20160l						1700		11								X		X	X	X	X	X	X	X	X	X	X	N	004
5	MW-50R-20160l						0955		11								X		X	X	X	X	X	X	X	X	X	X	N	005
6	MW-60R-20160l						1215		11								X		X	X	X	X	X	X	X	X	X	X	N	006
7	MW-67R-20160l						1435		11								X		X	X	X	X	X	X	X	X	X	X	N	007
8	MW-66R-20160l LW						1625		11								X		X	X	X	X	X	X	X	X	X	X	N	008
9	~~MW-63R-20160l LW~~								11								X		X	X	X	X	X	X	X	X	X	X	N	—
10	MW-193-20160l						1509		11								X		X	X	X	X	X	X	X	X	X	X	N	009
11	MW-62R-20160l						1135		11								X		X	X	X	X	X	X	X	X	X	X	N	010
12	MW-56R-20160l						1330		11								X		X	X	X	X	X	X	X	X	X	X	N	011

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Lucy Cross / Ramboll Environ	1/11/16	1830	[signature]	1/12/16	0740

SAMPLE CONDITIONS	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2-3		X	Y	Y
4-9		X	Y	Y
5-1		X	Y	Y
4-7		Y	Y	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lucy Cross

SIGNATURE of SAMPLER: Lucy Cross

DATE Signed (MM/DD/YY): 1/11/16

*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-Feb-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	10 day TAT

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Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	34375000

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

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

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OTHER	OT
TISSUE	TS

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity + field pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-57R-20160[illegible] 3D/9H	WT	G	1/11/16	1AG35[illegible]	1/11/16	1500		11	X	X	X	X	3D/9H		X		X	X	X	X	X	X	X	X	X	X	X	N	18[illegible] 18[illegible] 18[illegible] 002
2	EB-01-201601 3D/9H	WT	G			1/11/16	1713		3				X					X													004
3	MW-71-201601 3D/9H 3D/9H	WT	G	↓	↓	1/11/16	1615		11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	↓ ↓ ↓ 003
4	TB-03-201601 2D/9H	WT	G			1/11/16			2				X					X													005
5	TB-04-201601	WT	G			1/11/16			2				X					X													006
6	TB-05-201601	WT	G			1/11/16			2				X					X													007
7	TB-06-201601	WT	G			1/11/16			2				X					X													008
8	EB-02-201601 ~~3D/9H~~ 3D/9H	WT	G	↓	↓	1/11/16	1750		3				X					X													009
9				01/12/16																											
10																															
11									1																						
12																															

Requested Analysis Filtered (Y/N)

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)
	Lucy Cross/Ramboll ENV 1126	1/11/16	1830	[signature] 01/12/16	1/12/16	0750	23	Y	Y	Y	
							49	X	Y	Y	
							5.1	Y	Y	Y	
							4.3	X	X	Y	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*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.

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 60210974 **Workorder Name:** FORT SMITH, AR **Owner Received Date:** 1/12/2016 **Results Requested By:** 1/22/2016

Report To	Subcontract To
Colleen Clyne Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Dallas 400 West Bethany Drive Suite 190 Allen, TX 75013 Phone (972)727-1123

						Preserved Containers						Requested Analysis											
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	BP3S	DG9U					8015 Chloroethanol	Total Phosphate										LAB USE ONLY
1	MW-191-201601	PS	1/11/2016 14:46	60210974001	Water	1	3					X	X										001
2	MW-192-201601	PS	1/11/2016 12:42	60210974002	Water	1	3					X	X										002
3	MW-185-201601	PS	1/11/2016 09:56	60210974003	Water	1	3					X	X										003
4	MW-190-201601	PS	1/11/2016 17:00	60210974004	Water	1	3					X	X										004
5	MW-50R-201601	PS	1/11/2016 09:55	60210974005	Water	1	3					X	X										005
6	MW-60R-201601	PS	1/11/2016 12:15	60210974006	Water	1	3					X	X										006
7	MW-67R-201601	PS	1/11/2016 14:35	60210974007	Water	1	3					X	X										007
8	MW-66R-201601	PS	1/11/2016 16:25	60210974008	Water	1	3					X	X										008
9	MW-193-201601	PS	1/11/2016 15:08	60210974009	Water	1	3					X	X										009
10	MW-62R-201601	PS	1/11/2016 11:35	60210974010	Water	1	3					X	X										010
11	MW-56R-201601	PS	1/11/2016 13:30	60210974011	Water	1	3					X	X										011
12	MW-57R-201601	PS	1/11/2016 15:00	60210974012	Water	1	3					X	X										012
13	MW-71-201601	PS	1/11/2016 16:15	60210974013	Water	1	3					X	X										013

WO#: 7537283

7537283

					Comments
Transfers	Released By	Date/Time	Received By	Date/Time	
1		1/12/16 1700		1/13/16 09:05	
2					
3					

Cooler Temperature on Receipt 0.1 °C IR-02 **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Pace Analytical

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐San Angelo

Client Name: Pace - Kansas Project Work order: 7537283

Courier: FedEX ☑ UPS ☐ USPS ☐ Client ☐ Courier ☐ LSO ☐ PACE ☐ Other:

Tracking#: 6508 8163 6390

Custody Seal on Cooler/Box: Yes ☑ No ☐ Seals Intact: Yes ☑ No ☐ NA ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☑ Other ☐

Thermometer Used: ~~IR-01 IR-03~~ Type of Ice: Wet ☑ Blue ☐ None ☐ Sample Received on ice, cooling process has begun ☑

Cooler Temp: 0.1 (Temp should be above freezing to 6°C)

Chain of Custody Present	Yes ☑ No ☐ NA ☐	1
Chain of Custody filled out	Yes ☑ No ☐ NA ☐	2
Chain of Custody relinquished	Yes ☑ No ☐ NA ☐	3
Sampler name & signature on COC	Yes ☐ No ☑ NA ☐	4
Sample received within HT	Yes ☑ No ☐ NA ☐	5
Short HT analyses (<72 hrs)	Yes ☐ No ☑ NA ☐	6
Rush TAT requested	Yes ☐ No ☑ NA ☐	7
Sufficient Volume received	Yes ☑ No ☐ NA ☐	8
Correct Container used Pace Container used	Yes ☑ No ☐ NA ☐ Yes ☑ No ☐ NA ☐	9
Container Intact	Yes ☑ No ☐ NA ☐	10
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑	11
Filtered volume received for Dissolved tests	Yes ☐ No ☐ NA ☑	12
Sample labels match COC Include date/time/ID/analyses Matrix: WATER	Yes ☑ No ☐ NA ☐	13
All containers needing preservation have been checked	Yes ☑ No ☐ NA ☐	14a. Lot# of pH strip: 641200 3 pH checked Yes ☑ No ☐ pH<2 ☑ pH>9 ☐ pH>12 ☐ Lot# of Iodine strip: Lot# of Lead Acetate strip:
Do containers require preservation at the lab	Yes ☐ No ☑ NA ☐	14b. Preservation: / Lot#:
All containers needing preservation are found to be in Compliance with EPA recommendation Exception: VOA, coliform, O&G	Yes ☑ No ☐ Yes ☑ No ☐	14c.
Are soil samples (volatiles) received in Bulk ☐ Terracore ☐ EnCore ☐ NA ☑		15.
Trip Blank present Trip Blank Custody Seals Intact Pace Trip Blank Lot# (if purchased):	Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑	16.
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☑	17.
Project sampled in USDA Regulated Area:	Yes ☐ No ☐ NA ☑	18. List State

Client Notification/Resolution/Comments:

Person Contacted: Date:

Comments/Resolution:

Person Examining Contents: Date: 1/13/16

Pace Analytical Services - Dallas

Sample Container Count-

COC PAGE 1 of 2

COC ID# _____

Pace Project # 7537283

Sample Line Item	AG1S	AG1U	AG3S	BG1S	BP1U	BP2N	BP2S	BP2U	BP20	SP5T	VG9H	DG9M	VG9U	VG9W	WGFU	WGKU	BP3C	GN	WG2U	BP3S				
1							1						3											
2							1						3											
3							1						3											
4							1						3											
5							1						3											
6							1						3											
7							1						3											
8							1						3											
9							1						3											
10							1						3											
11							1						3											
12							1						3											

Container Codes

AF	Air Filter	BP1A	1 liter NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic	R	terra core kit
AG1H	1L HCL Amber Glass	BP1N	1 liter HNO3 plastic	BP3U	250mL unpreserved plastic	SP5T	120mL Coliform Na Thiosulfate
AG1S	1L H2SO4 Amber Glass	BP1S	1 liter H2SO4 plastic	BP3Z	250mL NaOH, Zn Ac plastic	SP5U	120mL Coliform unpreserved
AG1T	1L Sodium Thiosulfate Amber	BP1U	1 liter unpreserved plastic	C	Air Cassettes	VG9H	40mL HCL clear vial
AG1U	1L Unpreserved Amber Glass	BP1Z	1 liter NaOH, Zn, Ac	DG9B	40mL Na Bisulfate amber vial	VG9T	40mL Na Thio. clear vial
AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plasti	DG9H	40mL HCL amber voa vial	VG9U	40mL unpreserved clear vial
AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	DG9M	40mL MeOH clear vial	VG9W	40mL Unpreserved Tared
AG2U	500mL unpreserved amber glas	BP2O	500mL NaOH plastic	DG9P	40mL TSP amber vial	VSG	Headspace septa vial & HCL
AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	DG9S	40mL H2SO4 amber vial	WGFU	4oz clear soil jar
AG3U	250mL unpreserved amber glas	BP2U	500mL unpreserved plastic	DG9T	40mL Na Thio amber vial	WGFX	4oz wide jar w/hexane wipe
BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac	DG9U	40mL unpreserved amber vial	WGKU	8oz wide jar upreserved
BG1S	1 liter H2SO4 clear glass	BP3A	250mL NaOh, Asc Acid plastic	GN	General unpreserved	WG2U	2oz clear jar
BG1T	1 liter Na Thiosulfate clear gla	BP3C	250mL NaOH plastic	I	Wipe/Swab	ZPLC	Ziploc Bag
BG1U	1 liter unpreserved glass	BP3N	250mL HNO3 plastic	JGFU	4oz unpreserved amber wide	Other	Other

Pace Analytical Services - Dallas

Sample Container Count-

COC PAGE 2 of 2

COC ID# _____

Pace Project # 75372S3

Sample Line Item	AG1S	AG1U	AG3S	BG1S	BP1U	BP2N	BP2S	BP2U	BP20	SP5T	VG9H	DG9M	VG9U	VG9W	WGFU	WGKU	BP3C	GN	WG2U	BP3S				
1							1						3											
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Container Codes

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AG1H	1L HCL Amber Glass	BP1N	1 liter HNO3 plastic	BP3U	250mL unpreserved plastic	SP5T	120mL Coliform Na Thiosulfate
AG1S	1L H2SO4 Amber Glass	BP1S	1 liter H2SO4 plastic	BP3Z	250mL NaOH, Zn Ac plastic	SP5U	120mL Coliform unpreserved
AG1T	1L Sodium Thiosulfate Amber	BP1U	1 liter unpreserved plastic	C	Air Cassettes	VG9H	40mL HCL clear vial
AG1U	1L Unpreserved Amber Glass	BP1Z	1 liter NaOH, Zn, Ac	DG9B	40mL Na Bisulfate amber vial	VG9T	40mL Na Thio. clear vial
AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plasti	DG9H	40mL HCL amber voa vial	VG9U	40mL unpreserved clear vial
AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	DG9M	40mL MeOH clear vial	VG9W	40mL Unpreserved Tared
AG2U	500mL unpreserved amber glas	BP2O	500mL NaOH plastic	DG9P	40mL TSP amber vial	VSG	Headspace septa vial & HCL
AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	DG9S	40mL H2SO4 amber vial	WGFU	4oz clear soil jar
AG3U	250mL unpreserved amber glas	BP2U	500mL unpreserved plastic	DG9T	40mL Na Thio amber vial	WGFX	4oz wide jar w/hexane wipe
BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac	DG9U	40mL unpreserved amber vial	WGKU	8oz wide jar upreserved
BG1S	1 liter H2SO4 clear glass	BP3A	250mL NaOh, Asc Acid plastic	GN	General unpreserved	WG2U	2oz clear jar
BG1T	1 liter Na Thiosulfate clear gla	BP3C	250mL NaOH plastic	I	Wipe/Swab	ZPLC	Ziploc Bag
BG1U	1 liter unpreserved glass	BP3N	250mL HNO3 plastic	JGFU	4oz unpreserved amber wide	Other	Other

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January 22, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60210978

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60210978

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

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SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60210978

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60210978001	**MW-181-201601**	Water	01/11/16 15:45	01/12/16 07:50
60210978002	**MW-177-201601**	Water	01/11/16 14:50	01/12/16 07:50
60210978003	**VP-12-201601**	Water	01/11/16 16:25	01/12/16 07:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210978

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60210978001	**MW-181-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210978002	**MW-177-201601**	EPA 5030B/8260	PGH	38	PASI-K
60210978003	**VP-12-201601**	EPA 5030B/8260	PGH	38	PASI-K

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210978

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 22, 2016

General Information:
3 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73728

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210978

Sample: MW-181-201601 **Lab ID: 60210978001** Collected: 01/11/16 15:45 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 17:10	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 17:10	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 17:10	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 17:10	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 17:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 17:10	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 17:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 17:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 17:10	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 17:10	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 17:10	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 17:10	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 17:10	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 17:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 17:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 17:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 17:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 17:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 17:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 17:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 17:10	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 17:10	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 17:10	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 17:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 17:10	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 17:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 17:10	79-34-5	
Tetrachloroethene	**0.28J**	ug/L	1.0	0.10	1		01/13/16 17:10	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 17:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 17:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 17:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 17:10	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 17:10	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 17:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 17:10	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 17:10	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		01/13/16 17:10	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 17:10		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210978

Sample: MW-177-201601 **Lab ID: 60210978002** Collected: 01/11/16 14:50 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 17:24	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 17:24	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 17:24	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 17:24	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 17:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 17:24	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 17:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 17:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 17:24	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 17:24	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 17:24	67-66-3	
Chloromethane	**0.20J**	ug/L	1.0	0.080	1		01/13/16 17:24	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 17:24	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 17:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 17:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 17:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 17:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 17:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 17:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 17:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 17:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 17:24	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 17:24	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 17:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 17:24	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 17:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 17:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 17:24	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 17:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 17:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 17:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 17:24	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 17:24	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 17:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/13/16 17:24	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 17:24	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/13/16 17:24	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 17:24		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210978

Sample: VP-12-201601 **Lab ID: 60210978003** Collected: 01/11/16 16:25 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 17:39	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/13/16 17:39	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 17:39	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 17:39	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 17:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 17:39	78-93-3	
Carbon disulfide	**0.15J**	ug/L	5.0	0.12	1		01/13/16 17:39	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 17:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 17:39	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 17:39	75-00-3	
Chloroform	**0.19J**	ug/L	1.0	0.14	1		01/13/16 17:39	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 17:39	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 17:39	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 17:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 17:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 17:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 17:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 17:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 17:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 17:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 17:39	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 17:39	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 17:39	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 17:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 17:39	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 17:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 17:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 17:39	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 17:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 17:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 17:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 17:39	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 17:39	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 17:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/13/16 17:39	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/13/16 17:39	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/13/16 17:39	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 17:39		

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210978

QC Batch: MSV/73728 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210978001, 60210978002, 60210978003

METHOD BLANK: 1696364 Matrix: Water
Associated Lab Samples: 60210978001, 60210978002, 60210978003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 15:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 15:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 15:29	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 15:29	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 15:29	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 15:29	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 15:29	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 15:29	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 15:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 15:29	
Acetone	ug/L	ND	10.0	1.9	01/13/16 15:29	
Benzene	ug/L	ND	1.0	0.060	01/13/16 15:29	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 15:29	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 15:29	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 15:29	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 15:29	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 15:29	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 15:29	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 15:29	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 15:29	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 15:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 15:29	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 15:29	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 15:29	
Ethylbenzene	ug/L	ND	1.0	0.18	01/13/16 15:29	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 15:29	
Styrene	ug/L	ND	1.0	0.12	01/13/16 15:29	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 15:29	
Toluene	ug/L	ND	1.0	0.17	01/13/16 15:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 15:29	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 15:29	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 15:29	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 15:29	
Xylene (Total)	ug/L	ND	3.0	0.42	01/13/16 15:29	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 15:29	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 15:29	
Toluene-d8 (S)	%	103	80-120		01/13/16 15:29	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210978

LABORATORY CONTROL SAMPLE: 1696365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.8	94	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	21.1	106	73-121	
1,1,2-Trichloroethane	ug/L	20	19.4	97	80-120	
1,1-Dichloroethane	ug/L	20	19.4	97	80-120	
1,1-Dichloroethene	ug/L	20	17.5	88	80-120	
1,2-Dichloroethane	ug/L	20	19.7	99	81-120	
1,2-Dichloropropane	ug/L	20	19.8	99	80-120	
2-Butanone (MEK)	ug/L	100	112	112	67-122	
2-Hexanone	ug/L	100	119	119	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	114	114	76-120	
Acetone	ug/L	100	119	119	72-120	
Benzene	ug/L	20	20.5	103	80-120	
Bromodichloromethane	ug/L	20	19.5	97	80-120	
Bromoform	ug/L	20	18.8	94	73-138	
Bromomethane	ug/L	20	23.2	116	38-137	
Carbon disulfide	ug/L	20	19.2	96	71-129	
Carbon tetrachloride	ug/L	20	18.7	94	67-146	
Chlorobenzene	ug/L	20	20.5	103	80-120	
Chloroethane	ug/L	20	19.4	97	76-120	
Chloroform	ug/L	20	17.9	89	80-120	
Chloromethane	ug/L	20	21.3	106	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.3	91	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.8	99	80-120	
Dibromochloromethane	ug/L	20	20.6	103	80-126	
Ethylbenzene	ug/L	20	20.9	104	80-120	
Methylene chloride	ug/L	20	19.4	97	80-120	
Styrene	ug/L	20	20.8	104	80-123	
Tetrachloroethene	ug/L	20	19.6	98	80-123	
Toluene	ug/L	20	20.9	105	80-120	
trans-1,2-Dichloroethene	ug/L	20	17.9	89	80-120	
trans-1,3-Dichloropropene	ug/L	20	21.9	110	80-129	
Trichloroethene	ug/L	20	17.9	90	80-120	
Vinyl chloride	ug/L	20	21.1	106	62-125	
Xylene (Total)	ug/L	60	61.7	103	80-120	
1,2-Dichloroethane-d4 (S)	%			105	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			106	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60210978

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73728

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210978

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210978001	**MW-181-201601**	EPA 5030B/8260	MSV/73728		
60210978002	**MW-177-201601**	EPA 5030B/8260	MSV/73728		
60210978003	**VP-12-201601**	EPA 5030B/8260	MSV/73728		

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Sample Condition Upon Receipt

WO# : 60210978

60210978

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☑ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☑ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 4.3

Temperature should be above freezing to 6°C

Date and initials of person examining contents: PVI 12/16

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 holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<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	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☐Yes ☑No ☐N/A	
Pace Trip Blank lot # (if purchased): _____		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☑N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 01/13/2016

CHAIN-OF-CUSTODY / Analytical Request Document

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

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Environ	Report To:	Wendy Stonestreet	Attention:	Tamara Gleason
Address:	7500 College Blvd., Ste. 925	Copy To:	Tamara Gleason	Company Name:	
	Overland Park, KS 66210		tgleason@environcorp.com	Address:	
Email To:	wstonestreet@environcorp.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	913-553-5926 Fax:	Project Name:	Fort Smith, AR	Pace Project Manager:	Colleen Clyne (913) 563-1406
Requested Due Date/TAT:	Standard 10 day	Project Number:		Pace Profile #:	7444 water, 7709 soil

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER ADEQ

Site Location STATE: AR

Requested Analysis Filtered (Y/N)

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-191-201601	WT	G	1/11/16	1545				3				X					X	X	N	30694 M
2	MW-177-201601	WT	G	1/11/16	1450				3				X					X	X	N	10694 W2
3	VP-12-201601	WT	G	1/11/16	1625				1				X					X	X	N	10694 W3
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

60210978

m 1/12/16

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)
	Wendy Stonestreet /WS	1/11/16	1830		1/12/16	0750	4.3	X	X	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM/DD/YY): 1/11/2016

*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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Lenexa, KS 66219
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January 22, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60210979

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60210979

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60210979

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60210979001	**MW-175-201610**	Water	01/11/16 10:35	01/12/16 07:50
60210979002	**VP-08-201610**	Water	01/11/16 11:00	01/12/16 07:50
60210979003	**VP-07-201610**	Water	01/11/16 11:20	01/12/16 07:50

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210979

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60210979001	**MW-175-201610**	EPA 5030B/8260	PGH	38	PASI-K
60210979002	**VP-08-201610**	EPA 5030B/8260	PGH	38	PASI-K
60210979003	**VP-07-201610**	EPA 5030B/8260	PGH	38	PASI-K

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210979

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 22, 2016

General Information:
3 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73728

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73734

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210979

Sample: MW-175-201610 **Lab ID: 60210979001** Collected: 01/11/16 10:35 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**23.4**	ug/L	10.0	1.9	1		01/13/16 17:54	67-64-1	
Benzene	**0.16J**	ug/L	1.0	0.060	1		01/13/16 17:54	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 17:54	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 17:54	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 17:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 17:54	78-93-3	
Carbon disulfide	**0.15J**	ug/L	5.0	0.12	1		01/13/16 17:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 17:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 17:54	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 17:54	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 17:54	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 17:54	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 17:54	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 17:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 17:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 17:54	75-35-4	
cis-1,2-Dichloroethene	**1.1**	ug/L	1.0	0.080	1		01/13/16 17:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 17:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 17:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 17:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 17:54	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 17:54	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 17:54	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 17:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 17:54	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 17:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 17:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 17:54	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 17:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 17:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 17:54	79-00-5	
Trichloroethene	**52.6**	ug/L	1.0	0.17	1		01/13/16 17:54	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 17:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 17:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/13/16 17:54	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/13/16 17:54	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		01/13/16 17:54	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 17:54		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210979

Sample: VP-08-201610 **Lab ID: 60210979002** Collected: 01/11/16 11:00 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**198**	ug/L	10.0	1.9	1		01/13/16 23:57	67-64-1	
Benzene	**0.68J**	ug/L	1.0	0.060	1		01/13/16 23:57	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 23:57	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 23:57	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 23:57	74-83-9	
2-Butanone (MEK)	**32.8**	ug/L	10.0	0.59	1		01/13/16 23:57	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 23:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 23:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 23:57	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 23:57	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 23:57	67-66-3	
Chloromethane	**0.33J**	ug/L	1.0	0.080	1		01/13/16 23:57	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 23:57	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 23:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 23:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 23:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 23:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 23:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 23:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 23:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 23:57	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/13/16 23:57	100-41-4	
2-Hexanone	**8.6J**	ug/L	10.0	1.2	1		01/13/16 23:57	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 23:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.79J**	ug/L	10.0	0.42	1		01/13/16 23:57	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 23:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 23:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 23:57	127-18-4	
Toluene	**0.42J**	ug/L	1.0	0.17	1		01/13/16 23:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 23:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 23:57	79-00-5	
Trichloroethene	**3.2**	ug/L	1.0	0.17	1		01/13/16 23:57	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 23:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/13/16 23:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/13/16 23:57	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/13/16 23:57	17060-07-0	
Toluene-d8 (S)	104	%	80-120		1		01/13/16 23:57	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 23:57		

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210979

Sample: VP-07-201610 **Lab ID: 60210979003** Collected: 01/11/16 11:20 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**29.4**	ug/L	10.0	1.9	1		01/14/16 00:11	67-64-1	
Benzene	**0.17J**	ug/L	1.0	0.060	1		01/14/16 00:11	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 00:11	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 00:11	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 00:11	74-83-9	
2-Butanone (MEK)	**5.0J**	ug/L	10.0	0.59	1		01/14/16 00:11	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 00:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 00:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 00:11	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 00:11	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 00:11	67-66-3	
Chloromethane	**0.21J**	ug/L	1.0	0.080	1		01/14/16 00:11	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 00:11	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 00:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 00:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 00:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 00:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 00:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 00:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 00:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 00:11	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 00:11	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 00:11	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 00:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.83J**	ug/L	10.0	0.42	1		01/14/16 00:11	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 00:11	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 00:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 00:11	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 00:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 00:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 00:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 00:11	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 00:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 00:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/14/16 00:11	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/14/16 00:11	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/14/16 00:11	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 00:11		

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210979

QC Batch: MSV/73728
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210979001

METHOD BLANK: 1696364
Matrix: Water
Associated Lab Samples: 60210979001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 15:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 15:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 15:29	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 15:29	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 15:29	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 15:29	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 15:29	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 15:29	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 15:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 15:29	
Acetone	ug/L	ND	10.0	1.9	01/13/16 15:29	
Benzene	ug/L	ND	1.0	0.060	01/13/16 15:29	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 15:29	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 15:29	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 15:29	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 15:29	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 15:29	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 15:29	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 15:29	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 15:29	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 15:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 15:29	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 15:29	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 15:29	
Ethylbenzene	ug/L	ND	1.0	0.18	01/13/16 15:29	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 15:29	
Styrene	ug/L	ND	1.0	0.12	01/13/16 15:29	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 15:29	
Toluene	ug/L	ND	1.0	0.17	01/13/16 15:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 15:29	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 15:29	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 15:29	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 15:29	
Xylene (Total)	ug/L	ND	3.0	0.42	01/13/16 15:29	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 15:29	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 15:29	
Toluene-d8 (S)	%	103	80-120		01/13/16 15:29	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210979

LABORATORY CONTROL SAMPLE: 1696365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.8	94	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	21.1	106	73-121	
1,1,2-Trichloroethane	ug/L	20	19.4	97	80-120	
1,1-Dichloroethane	ug/L	20	19.4	97	80-120	
1,1-Dichloroethene	ug/L	20	17.5	88	80-120	
1,2-Dichloroethane	ug/L	20	19.7	99	81-120	
1,2-Dichloropropane	ug/L	20	19.8	99	80-120	
2-Butanone (MEK)	ug/L	100	112	112	67-122	
2-Hexanone	ug/L	100	119	119	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	114	114	76-120	
Acetone	ug/L	100	119	119	72-120	
Benzene	ug/L	20	20.5	103	80-120	
Bromodichloromethane	ug/L	20	19.5	97	80-120	
Bromoform	ug/L	20	18.8	94	73-138	
Bromomethane	ug/L	20	23.2	116	38-137	
Carbon disulfide	ug/L	20	19.2	96	71-129	
Carbon tetrachloride	ug/L	20	18.7	94	67-146	
Chlorobenzene	ug/L	20	20.5	103	80-120	
Chloroethane	ug/L	20	19.4	97	76-120	
Chloroform	ug/L	20	17.9	89	80-120	
Chloromethane	ug/L	20	21.3	106	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.3	91	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.8	99	80-120	
Dibromochloromethane	ug/L	20	20.6	103	80-126	
Ethylbenzene	ug/L	20	20.9	104	80-120	
Methylene chloride	ug/L	20	19.4	97	80-120	
Styrene	ug/L	20	20.8	104	80-123	
Tetrachloroethene	ug/L	20	19.6	98	80-123	
Toluene	ug/L	20	20.9	105	80-120	
trans-1,2-Dichloroethene	ug/L	20	17.9	89	80-120	
trans-1,3-Dichloropropene	ug/L	20	21.9	110	80-129	
Trichloroethene	ug/L	20	17.9	90	80-120	
Vinyl chloride	ug/L	20	21.1	106	62-125	
Xylene (Total)	ug/L	60	61.7	103	80-120	
1,2-Dichloroethane-d4 (S)	%			105	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			106	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210979

QC Batch: MSV/73734
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210979002, 60210979003

METHOD BLANK: 1696551
Matrix: Water
Associated Lab Samples: 60210979002, 60210979003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 21:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 21:47	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 21:47	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 21:47	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 21:47	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 21:47	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 21:47	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 21:47	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 21:47	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 21:47	
Acetone	ug/L	ND	10.0	1.9	01/13/16 21:47	
Benzene	ug/L	ND	1.0	0.060	01/13/16 21:47	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 21:47	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 21:47	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 21:47	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 21:47	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 21:47	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 21:47	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 21:47	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 21:47	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 21:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 21:47	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 21:47	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 21:47	
Ethylbenzene	ug/L	ND	1.0	0.18	01/13/16 21:47	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 21:47	
Styrene	ug/L	ND	1.0	0.12	01/13/16 21:47	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 21:47	
Toluene	ug/L	ND	1.0	0.17	01/13/16 21:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 21:47	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 21:47	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 21:47	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 21:47	
Xylene (Total)	ug/L	ND	3.0	0.42	01/13/16 21:47	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 21:47	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 21:47	
Toluene-d8 (S)	%	102	80-120		01/13/16 21:47	

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210979

LABORATORY CONTROL SAMPLE: 1696552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.0	95	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	21.8	109	73-121	
1,1,2-Trichloroethane	ug/L	20	18.9	94	80-120	
1,1-Dichloroethane	ug/L	20	20.0	100	80-120	
1,1-Dichloroethene	ug/L	20	17.6	88	80-120	
1,2-Dichloroethane	ug/L	20	19.4	97	81-120	
1,2-Dichloropropane	ug/L	20	19.3	96	80-120	
2-Butanone (MEK)	ug/L	100	106	106	67-122	
2-Hexanone	ug/L	100	115	115	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	76-120	
Acetone	ug/L	100	117	117	72-120	
Benzene	ug/L	20	20.2	101	80-120	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	18.3	91	73-138	
Bromomethane	ug/L	20	22.1	110	38-137	
Carbon disulfide	ug/L	20	19.3	97	71-129	
Carbon tetrachloride	ug/L	20	18.1	91	67-146	
Chlorobenzene	ug/L	20	19.9	99	80-120	
Chloroethane	ug/L	20	18.7	94	76-120	
Chloroform	ug/L	20	18.0	90	80-120	
Chloromethane	ug/L	20	21.3	107	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	80-120	
Dibromochloromethane	ug/L	20	19.2	96	80-126	
Ethylbenzene	ug/L	20	19.6	98	80-120	
Methylene chloride	ug/L	20	19.2	96	80-120	
Styrene	ug/L	20	19.9	99	80-123	
Tetrachloroethene	ug/L	20	18.7	94	80-123	
Toluene	ug/L	20	20.2	101	80-120	
trans-1,2-Dichloroethene	ug/L	20	17.5	88	80-120	
trans-1,3-Dichloropropene	ug/L	20	21.1	105	80-129	
Trichloroethene	ug/L	20	17.8	89	80-120	
Vinyl chloride	ug/L	20	20.5	102	62-125	
Xylene (Total)	ug/L	60	58.1	97	80-120	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			102	80-120	

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60210979

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73728

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/73734

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210979

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210979001	**MW-175-201610**	EPA 5030B/8260	MSV/73728		
60210979002	**VP-08-201610**	EPA 5030B/8260	MSV/73734		
60210979003	**VP-07-201610**	EPA 5030B/8260	MSV/73734		

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Sample Condition Upon Receipt

WO# : 60210979

60210979

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☑ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☑ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 4.3

Temperature should be above freezing to 6°C

Date and initials of person examining contents: PVI 1/12/16

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 holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<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	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☐Yes ☑No ☐N/A	
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☑N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Colleen Clayton Date: 01/13/2016

F-KS-C-003-Rev.9, 30June2015

CHAIN-OF-CUSTODY / Analytical Request Document

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

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Page: 1 of 1

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tamara Gleason
	tgleason@environcorp.com
Purchase Order No.:	
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tamara Gleason
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Colleen Clyne (913) 563-1406
Pace Profile #:	7444 water, 7709 soil

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-175-201610	WT	G	1/11/16	1035				3				X					X	X	N	30696 01
2	VP-08-201610	WT	G	1/11/16	1100				3				X					X	X	N	02
3	VP-07-201610	WT	G	1/11/16	1120				3				X					X	X	N	03
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

60210979

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Wendy Stonestreet/REE	1/11/16	1830	[signature]	1/12/16	0750	4°C	X	X	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM/DD/YY): 1/11/2016

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-Feb-2007

Pace Analytical Services, Inc.
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January 22, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60210981

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60210981

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60210981

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60210981001	**VP-15-201601**	Water	01/11/16 13:30	01/12/16 07:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60210981

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60210981001	**VP-15-201601**	EPA 5030B/8260	PGH	38	PASI-K

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60210981

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 22, 2016

General Information:
1 sample was analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73734

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60210981

Sample: VP-15-201601 **Lab ID: 60210981001** Collected: 01/11/16 13:30 Received: 01/12/16 07:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/13/16 23:43	67-64-1	
Benzene	**1.1**	ug/L	1.0	0.060	1		01/13/16 23:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/13/16 23:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/13/16 23:43	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/13/16 23:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/13/16 23:43	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/13/16 23:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/13/16 23:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/13/16 23:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/13/16 23:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/13/16 23:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/13/16 23:43	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/13/16 23:43	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/13/16 23:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/13/16 23:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 23:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/13/16 23:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/13/16 23:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/13/16 23:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/13/16 23:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/13/16 23:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 11:11	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/13/16 23:43	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/13/16 23:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/13/16 23:43	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/13/16 23:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/13/16 23:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/13/16 23:43	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/13/16 23:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/13/16 23:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/13/16 23:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/13/16 23:43	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/13/16 23:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 11:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/13/16 23:43	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	80-120		1		01/13/16 23:43	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/13/16 23:43	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/13/16 23:43		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210981

QC Batch: MSV/73734
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210981001

METHOD BLANK: 1696551
Matrix: Water
Associated Lab Samples: 60210981001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/13/16 21:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/13/16 21:47	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/13/16 21:47	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/13/16 21:47	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 21:47	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/13/16 21:47	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/13/16 21:47	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/13/16 21:47	
2-Hexanone	ug/L	ND	10.0	1.2	01/13/16 21:47	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/13/16 21:47	
Acetone	ug/L	ND	10.0	1.9	01/13/16 21:47	
Benzene	ug/L	ND	1.0	0.060	01/13/16 21:47	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/13/16 21:47	
Bromoform	ug/L	ND	1.0	0.070	01/13/16 21:47	
Bromomethane	ug/L	ND	5.0	0.16	01/13/16 21:47	
Carbon disulfide	ug/L	ND	5.0	0.12	01/13/16 21:47	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/13/16 21:47	
Chlorobenzene	ug/L	ND	1.0	0.21	01/13/16 21:47	
Chloroethane	ug/L	ND	1.0	0.15	01/13/16 21:47	
Chloroform	ug/L	ND	1.0	0.14	01/13/16 21:47	
Chloromethane	ug/L	ND	1.0	0.080	01/13/16 21:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/13/16 21:47	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/13/16 21:47	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/13/16 21:47	
Methylene chloride	ug/L	ND	1.0	0.15	01/13/16 21:47	
Styrene	ug/L	ND	1.0	0.12	01/13/16 21:47	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/13/16 21:47	
Toluene	ug/L	ND	1.0	0.17	01/13/16 21:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/13/16 21:47	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/13/16 21:47	
Trichloroethene	ug/L	ND	1.0	0.17	01/13/16 21:47	
Vinyl chloride	ug/L	ND	1.0	0.13	01/13/16 21:47	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/13/16 21:47	
4-Bromofluorobenzene (S)	%	99	80-120		01/13/16 21:47	
Toluene-d8 (S)	%	102	80-120		01/13/16 21:47	

LABORATORY CONTROL SAMPLE: 1696552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.0	95	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210981

LABORATORY CONTROL SAMPLE: 1696552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	21.8	109	73-121	
1,1,2-Trichloroethane	ug/L	20	18.9	94	80-120	
1,1-Dichloroethane	ug/L	20	20.0	100	80-120	
1,1-Dichloroethene	ug/L	20	17.6	88	80-120	
1,2-Dichloroethane	ug/L	20	19.4	97	81-120	
1,2-Dichloropropane	ug/L	20	19.3	96	80-120	
2-Butanone (MEK)	ug/L	100	106	106	67-122	
2-Hexanone	ug/L	100	115	115	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	76-120	
Acetone	ug/L	100	117	117	72-120	
Benzene	ug/L	20	20.2	101	80-120	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	18.3	91	73-138	
Bromomethane	ug/L	20	22.1	110	38-137	
Carbon disulfide	ug/L	20	19.3	97	71-129	
Carbon tetrachloride	ug/L	20	18.1	91	67-146	
Chlorobenzene	ug/L	20	19.9	99	80-120	
Chloroethane	ug/L	20	18.7	94	76-120	
Chloroform	ug/L	20	18.0	90	80-120	
Chloromethane	ug/L	20	21.3	107	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	80-120	
Dibromochloromethane	ug/L	20	19.2	96	80-126	
Methylene chloride	ug/L	20	19.2	96	80-120	
Styrene	ug/L	20	19.9	99	80-123	
Tetrachloroethene	ug/L	20	18.7	94	80-123	
Toluene	ug/L	20	20.2	101	80-120	
trans-1,2-Dichloroethene	ug/L	20	17.5	88	80-120	
trans-1,3-Dichloropropene	ug/L	20	21.1	105	80-129	
Trichloroethene	ug/L	20	17.8	89	80-120	
Vinyl chloride	ug/L	20	20.5	102	62-125	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			102	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60210981

QC Batch: MSV/73748
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60210981001

METHOD BLANK: 1696916 Matrix: Water
Associated Lab Samples: 60210981001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	1.0	0.18	01/14/16 09:29	
Xylene (Total)	ug/L	ND	3.0	0.42	01/14/16 09:29	
1,2-Dichloroethane-d4 (S)	%	106	80-120		01/14/16 09:29	
4-Bromofluorobenzene (S)	%	98	80-120		01/14/16 09:29	
Toluene-d8 (S)	%	100	80-120		01/14/16 09:29	

LABORATORY CONTROL SAMPLE: 1696917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	20	20.8	104	80-120	
Xylene (Total)	ug/L	60	65.1	108	80-120	
1,2-Dichloroethane-d4 (S)	%			107	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696926 1696927

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethylbenzene	ug/L	ND	20	20	20.4	21.6	102	108	51-148	6	14	
Xylene (Total)	ug/L	ND	60	60	58.9	67.5	98	112	39-158	14	15	
1,2-Dichloroethane-d4 (S)	%						105	108	80-120			
4-Bromofluorobenzene (S)	%						105	102	80-120			
Toluene-d8 (S)	%						103	99	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60210981

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73734

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60210981

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60210981001	**VP-15-201601**	EPA 5030B/8260	MSV/73734		
60210981001	**VP-15-201601**	EPA 5030B/8260	MSV/73748		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60210981

60210981

Optional
Proj Due Date:
Proj Name:

Client Name: Environ

Courier: FedEx ☐ UPS ☐ VIA ☑ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☑ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 4.3

Temperature should be above freezing to 6°C

Date and initials of person examining contents: PVI 1/12/16

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 holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<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	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☐Yes ☑No ☐N/A	
Pace Trip Blank lot # (if purchased): _____		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☑N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Colleen Clyne Date: 01/13/2016

F-KS-C-003-Rev.9, 30June2015

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical
www.pacelabs.com

Page: 1 of 1

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	Section D 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 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	8010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	VP-15 201601	WT	G	1/11/16	1330				3				X					X											N	30694 01
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

6021098l

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)
~~Level IV data package required~~	Wendy Stonestreet IRE	1/11/16	1830		1/12/16	0750	4-3	X	X	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM/DD/YY): 1/11/2016

*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-Feb-2007

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 27, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH AR
Pace Project No.: 60211085

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 13, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH AR
Pace Project No.: 60211085

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

Dallas Certification IDs:

400 West Bethany Dr Suite 190, Allen, TX 75013
EPA# TX00074
Texas Certification #: T104704232-15-12
Texas Certification #: T104704232-14-8
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 2014-055
Louisiana Certification #: 02007

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SAMPLE SUMMARY

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60211085001	MW-40R-201601	Water	01/12/16 09:35	01/13/16 08:55
60211085002	IW-72-201601	Water	01/12/16 09:30	01/13/16 08:55
60211085003	IW-74-201601	Water	01/12/16 10:55	01/13/16 08:55
60211085004	IW-73-201601	Water	01/12/16 14:10	01/13/16 08:55
60211085005	MW-41R-201601	Water	01/12/16 11:20	01/13/16 08:55
60211085006	IW-76-201601	Water	01/12/16 16:00	01/13/16 08:55
60211085007	MW-39R-201601	Water	01/12/16 13:15	01/13/16 08:55
60211085008	MW-46R-201601	Water	01/12/16 15:56	01/13/16 08:55
60211085009	MW-55R-201601	Water	01/12/16 08:55	01/13/16 08:55
60211085010	MW-68-201601	Water	01/12/16 11:12	01/13/16 08:55
60211085011	RW-69-201601	Water	01/12/16 13:30	01/13/16 08:55
60211085012	ITMW-6-201601	Water	01/12/16 16:45	01/13/16 08:55
60211085013	MW-27-201601	Water	01/12/16 09:20	01/13/16 08:55
60211085014	MW-31R-201601	Water	01/12/16 15:10	01/13/16 08:55
60211085015	MW-32R-201601	Water	01/12/16 17:15	01/13/16 08:55
60211085016	MW-97-201601	Water	01/12/16 13:00	01/13/16 08:55
60211085017	MW-183-201601	Water	01/12/16 09:03	01/13/16 08:55
60211085018	MW-96-201601	Water	01/12/16 11:05	01/13/16 08:55
60211085019	MW-89-201601	Water	01/12/16 17:20	01/13/16 08:55
60211085020	MW-58R-201601	Water	01/12/16 10:15	01/13/16 08:55
60211085021	MW-88-201601	Water	01/12/16 13:35	01/13/16 08:55
60211085022	ITMW-20-201601	Water	01/12/16 15:35	01/13/16 08:55
60211085023	MW-63R-201601	Water	01/12/16 09:10	01/13/16 08:55
60211085024	MW-22-201601	Water	01/12/16 15:25	01/13/16 08:55
60211085025	ITMW-14-201601	Water	01/12/16 15:35	01/13/16 08:55
60211085026	MW-90-201601	Water	01/12/16 11:15	01/13/16 08:55
60211085027	ITMW-2-201601	Water	01/12/16 15:20	01/13/16 08:55
60211085028	ITMW-4-201601	Water	01/12/16 13:25	01/13/16 08:55
60211085029	MW-28-201601	Water	01/12/16 11:50	01/13/16 08:55
60211085030	DUP-07-201601	Water	01/12/16 11:20	01/13/16 08:55
60211085031	DUP-06-201601	Water	01/12/16 09:35	01/13/16 08:55
60211085032	DUP-05-201601	Water	01/12/16 10:55	01/13/16 08:55
60211085033	DUP-10-201601	Water	01/12/16 10:15	01/13/16 08:55
60211085034	EB-04-201601	Water	01/12/16 16:45	01/13/16 08:55
60211085035	EB-03-201601	Water	01/12/16 17:10	01/13/16 08:55
60211085036	TB-07-201601	Water	01/12/16 08:00	01/13/16 08:55
60211085037	TB-08-2016021	Water	01/12/16 08:00	01/13/16 08:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60211085038	**TB-09-2016021**	Water	01/12/16 08:00	01/13/16 08:55
60211085039	**TB-10-2016021**	Water	01/12/16 08:00	01/13/16 08:55
60211085040	**TB-11-2016021**	Water	01/12/16 08:00	01/13/16 08:55
60211085041	**TB-12-2016021**	Water	01/12/16 08:00	01/13/16 08:55
60211085042	**TB-13-2016021**	Water	01/12/16 08:00	01/13/16 08:55
60211085043	**TB-14-2016021**	Water	01/12/16 08:00	01/13/16 08:55
60211085044	**IW-74-201601**	Water	01/12/16 10:55	01/13/16 08:55

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60211085001	**MW-40R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085002	**IW-72-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085003	**IW-74-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085004	**IW-73-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085005	**MW-41R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085006	**IW-76-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085007	**MW-39R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085008	**MW-46R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085009	**MW-55R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085010	**MW-68-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085011	**RW-69-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085012	**ITMW-6-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085013	**MW-27-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085014	**MW-31R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085015	**MW-32R-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085016	**MW-97-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085017	**MW-183-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW, ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085018	**MW-96-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	ZBM	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085019	**MW-89-201601**	EPA 8015 - Alcohol	MS1	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085020	**MW-58R-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-P E	MRU	1	PASI-D
60211085021	**MW-88-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085022	**ITMW-20-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085023	**MW-63R-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085024	**MW-22-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085025	**ITMW-14-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085026	**MW-90-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085027	**ITMW-2-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085028	**ITMW-4-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085029	**MW-28-201601**	EPA 8015 - Alcohol	JS	1	PASI-D
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PGH	38	PASI-K
		SM 2320B	CRS	3	PASI-K
		SM 3500-Fe B#4	TJG	1	PASI-K
		SM 4500-H+B	TJG	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S-2 D	CRS	1	PASI-K
		EPA 300.0	RAB	2	PASI-K
		EPA 350.1	AJM	1	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 4500-CO2 D	JMC1	1	PASI-K
		SM 5310C	ESM	1	PASI-K
		SM 4500-P E	MRU	1	PASI-D
60211085030	**DUP-07-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211085031	**DUP-06-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211085032	**DUP-05-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211085033	**DUP-10-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211085034	**EB-04-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211085035	**EB-03-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211085036	**TB-07-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211085037	**TB-08-2016021**	EPA 5030B/8260	PGH	38	PASI-K
60211085038	**TB-09-2016021**	EPA 5030B/8260	PGH	38	PASI-K
60211085039	**TB-10-2016021**	EPA 5030B/8260	PGH	38	PASI-K
60211085040	**TB-11-2016021**	EPA 5030B/8260	PGH	38	PASI-K
60211085041	**TB-12-2016021**	EPA 5030B/8260	PGH	38	PASI-K
60211085042	**TB-13-2016021**	EPA 5030B/8260	PGH	38	PASI-K
60211085043	**TB-14-2016021**	EPA 5030B/8260	PGH	38	PASI-K

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 8015 - Alcohol**
Description: Alcohol by Direct Inject GCFID
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for EPA 8015 - Alcohol. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 27, 2016

General Information:
43 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: MSV/73769

S2: Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

- IW-76-201601 (Lab ID: 60211085006)
  - Toluene-d8 (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: MSV/73748

B: Analyte was detected in the associated method blank.

- BLANK for HBN 415721 [MSV/7374 (Lab ID: 1696916)
  - Chloromethane

QC Batch: MSV/73750

B: Analyte was detected in the associated method blank.

- BLANK for HBN 415737 [MSV/7375 (Lab ID: 1697069)
  - Chloromethane

QC Batch: MSV/73769

B: Analyte was detected in the associated method blank.

- BLANK for HBN 415881 [MSV/7376 (Lab ID: 1697620)
  - Chloromethane

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 27, 2016

QC Batch: MSV/73748

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 1696917)
  - Acetone

QC Batch: MSV/73752

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 1697130)
  - 2-Hexanone
  - Acetone

QC Batch: MSV/73769

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 1697621)
  - Acetone

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73748

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211085009

R1: RPD value was outside control limits.
- MSD (Lab ID: 1696927)
  - 1,1,2,2-Tetrachloroethane
  - Styrene

QC Batch: MSV/73749

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73750

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211085012,60211085022

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 1697071)
  - Styrene
- MS (Lab ID: 1697073)
  - Styrene
- MSD (Lab ID: 1697072)
  - Styrene
- MSD (Lab ID: 1697074)
  - 2-Hexanone
  - Styrene

R1: RPD value was outside control limits.
- MSD (Lab ID: 1697074)
  - 1,1,2,2-Tetrachloroethane
  - 1,1,2-Trichloroethane
  - Chlorobenzene

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 27, 2016

QC Batch: MSV/73750

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211085012,60211085022

R1: RPD value was outside control limits.

- Dibromochloromethane
- Tetrachloroethene
- trans-1,3-Dichloropropene

QC Batch: MSV/73752

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211085026,60211085029

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1697131)
  - 2-Hexanone

R1: RPD value was outside control limits.

- MSD (Lab ID: 1697132)
  - 1,1,2,2-Tetrachloroethane

QC Batch: MSV/73769

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73771

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73772

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: MSV/73769

P2: Re-extraction or re-analysis could not be performed due to insufficient sample amount.

- IW-76-201601 (Lab ID: 60211085006)
  - Acetone

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **SM 3500-Fe B#4**
Description: Iron, Ferric (Calculation)
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for SM 3500-Fe B#4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Ferrous Fe performed in the field
- QC Batch: WET / 59735
- QC Batch: WET / 59736

Ferrous Fe perfromed in the field
- QC Batch: WET / 59750

Analyte Comments:

QC Batch: WET/59750

1e: Total Iron was confirmed.
- MW-22-201601 (Lab ID: 60211085024)
  - Iron, Ferric
- MW-39R-201601 (Lab ID: 60211085007)
  - Iron, Ferric

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- ITMW-14-201601 (Lab ID: 60211085025)
- ITMW-2-201601 (Lab ID: 60211085027)
- ITMW-20-201601 (Lab ID: 60211085022)
- ITMW-4-201601 (Lab ID: 60211085028)
- ITMW-6-201601 (Lab ID: 60211085012)
- IW-72-201601 (Lab ID: 60211085002)
- IW-73-201601 (Lab ID: 60211085004)
- IW-74-201601 (Lab ID: 60211085003)
- IW-76-201601 (Lab ID: 60211085006)
- MW-183-201601 (Lab ID: 60211085017)
- MW-22-201601 (Lab ID: 60211085024)
- MW-27-201601 (Lab ID: 60211085013)
- MW-28-201601 (Lab ID: 60211085029)
- MW-31R-201601 (Lab ID: 60211085014)
- MW-32R-201601 (Lab ID: 60211085015)
- MW-39R-201601 (Lab ID: 60211085007)
- MW-40R-201601 (Lab ID: 60211085001)
- MW-41R-201601 (Lab ID: 60211085005)
- MW-46R-201601 (Lab ID: 60211085008)
- MW-55R-201601 (Lab ID: 60211085009)
- MW-58R-201601 (Lab ID: 60211085020)
- MW-63R-201601 (Lab ID: 60211085023)
- MW-68-201601 (Lab ID: 60211085010)
- MW-88-201601 (Lab ID: 60211085021)
- MW-89-201601 (Lab ID: 60211085019)
- MW-90-201601 (Lab ID: 60211085026)
- MW-96-201601 (Lab ID: 60211085018)
- MW-97-201601 (Lab ID: 60211085016)
- RW-69-201601 (Lab ID: 60211085011)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Environ_AR
Date: January 27, 2016

Additional Comments:

Batch Comments:

Field pH
- QC Batch: WET / 59744
- QC Batch: WET / 59745

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.
- MW-46R-201601 (Lab ID: 60211085008)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 350.1**
Description: 350.1 Ammonia
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37769

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211036001,60211037003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1698764)
  - Nitrogen, Ammonia

QC Batch: WETA/37770

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211085009,60211085012

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1698769)
  - Nitrogen, Ammonia
- MS (Lab ID: 1698770)
  - Nitrogen, Ammonia

QC Batch: WETA/37771

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211085026,60211085029

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1698774)
  - Nitrogen, Ammonia
- MS (Lab ID: 1698775)
  - Nitrogen, Ammonia

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 350.1**
Description: 350.1 Ammonia
Client: Environ_AR
Date: January 27, 2016

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/37712

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211080001,60211085009

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1696523)
  - Nitrogen, NO2 plus NO3
  - Nitrogen, Nitrate

QC Batch: WETA/37713

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60211085022,60211092002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1696537)
  - Nitrogen, NO2 plus NO3
  - Nitrogen, Nitrate
  - Nitrogen, Nitrite

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **SM 4500-CO2 D**
Description: Total Carbon Dioxide Calc
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for SM 4500-CO2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **SM 5310C**
Description: 5310C TOC
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211085

Method: **SM 4500-P E**
Description: SM4500P-E, Total Phosphorus
Client: Environ_AR
Date: January 27, 2016

General Information:
29 samples were analyzed for SM 4500-P E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with SM4500-P B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-40R-201601 **Lab ID: 60211085001** Collected: 01/12/16 09:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 12:43	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**17500**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 11:42	7439-89-6	
Manganese	**4640**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 11:42	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 11:26	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 11:26	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 11:26	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 11:26	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 11:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 11:26	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 11:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 11:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 11:26	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 11:26	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 11:26	67-66-3	
Chloromethane	**0.39J**	ug/L	1.0	0.080	1		01/14/16 11:26	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 11:26	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 11:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 11:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 11:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 11:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 11:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 11:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 11:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 11:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 11:26	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 11:26	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 11:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 11:26	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 11:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 11:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 11:26	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 11:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 11:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 11:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 11:26	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 11:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 11:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/14/16 11:26	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	80-120		1		01/14/16 11:26	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		01/14/16 11:26	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 11:26		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-40R-201601 **Lab ID: 60211085001** Collected: 01/12/16 09:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**64.3**	mg/L	20.0	2.0	1		01/21/16 11:44		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 11:44		
Alkalinity, Total as CaCO3	**64.3**	mg/L	20.0	2.0	1		01/21/16 11:44		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**14.2**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:05	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**194**	mg/L	20.0	10.0	20		01/17/16 12:47	16887-00-6	
Sulfate	**5.3**	mg/L	1.0	0.24	1		01/17/16 12:30	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 10:16	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.015J**	mg/L	0.10	0.014	1		01/13/16 14:30		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:30		
Nitrogen, NO2 plus NO3	**0.015J**	mg/L	0.10	0.014	1		01/13/16 14:30		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**164**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 18:31	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.12**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:53		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: IW-72-201601 **Lab ID: 60211085002** Collected: 01/12/16 09:30 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 12:54	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**300**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:22	7439-89-6	
Manganese	**2590**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 11:44	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**2.0J**	ug/L	10.0	1.9	1		01/14/16 11:40	67-64-1	L1
Benzene	**0.14J**	ug/L	1.0	0.060	1		01/14/16 11:40	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 11:40	75-27-4	
Bromoform	**1.4**	ug/L	1.0	0.070	1		01/14/16 11:40	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 11:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 11:40	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 11:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 11:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 11:40	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 11:40	75-00-3	
Chloroform	**0.19J**	ug/L	1.0	0.14	1		01/14/16 11:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/14/16 11:40	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 11:40	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 11:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 11:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 11:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 11:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 11:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 11:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 11:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 11:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 11:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 11:40	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 11:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 11:40	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 11:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 11:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 11:40	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 11:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 11:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 11:40	79-00-5	
Trichloroethene	**1.4**	ug/L	1.0	0.17	1		01/14/16 11:40	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 11:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 11:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	80-120		1		01/14/16 11:40	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/14/16 11:40	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/14/16 11:40	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 11:40		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: IW-72-201601 **Lab ID: 60211085002** Collected: 01/12/16 09:30 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**117**	mg/L	20.0	2.0	1		01/21/16 11:48		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 11:48		
Alkalinity, Total as CaCO3	**117**	mg/L	20.0	2.0	1		01/21/16 11:48		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.30**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.9**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**220**	mg/L	20.0	10.0	20		01/17/16 13:21	16887-00-6	
Sulfate	**6.3**	mg/L	1.0	0.24	1		01/17/16 13:04	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 10:17	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.1**	mg/L	0.10	0.014	1		01/13/16 14:31		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:31		
Nitrogen, NO2 plus NO3	**1.1**	mg/L	0.10	0.014	1		01/13/16 14:31		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**384**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 18:44	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.26**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:54		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: IW-74-201601 **Lab ID: 60211085003** Collected: 01/12/16 10:55 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 13:06	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**54.3**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:24	7439-89-6	
Manganese	**610**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 11:47	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 12:24	67-64-1	L3
Benzene	**0.18J**	ug/L	1.0	0.060	1		01/14/16 12:24	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 12:24	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 12:24	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 12:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 12:24	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 12:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 12:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 12:24	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 12:24	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 12:24	67-66-3	
Chloromethane	**0.25J**	ug/L	1.0	0.080	1		01/14/16 12:24	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 12:24	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 12:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 12:24	107-06-2	
1,1-Dichloroethene	**0.26J**	ug/L	1.0	0.20	1		01/14/16 12:24	75-35-4	
cis-1,2-Dichloroethene	**3.2**	ug/L	1.0	0.080	1		01/14/16 12:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 12:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 12:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 12:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 12:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 12:24	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 12:24	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 12:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 12:24	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 12:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 12:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 12:24	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 12:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 12:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 12:24	79-00-5	
Trichloroethene	**135**	ug/L	1.0	0.17	1		01/14/16 12:24	79-01-6	
Vinyl chloride	**0.17J**	ug/L	1.0	0.13	1		01/14/16 12:24	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 12:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/14/16 12:24	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/14/16 12:24	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/14/16 12:24	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 12:24		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: IW-74-201601 **Lab ID: 60211085003** Collected: 01/12/16 10:55 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**68.8**	mg/L	20.0	2.0	1		01/21/16 11:52		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 11:52		
Alkalinity, Total as CaCO3	**68.8**	mg/L	20.0	2.0	1		01/21/16 11:52		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.7**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**227**	mg/L	20.0	10.0	20		01/17/16 14:30	16887-00-6	
Sulfate	**3.0**	mg/L	1.0	0.24	1		01/17/16 14:13	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:27	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.69**	mg/L	0.10	0.014	1		01/13/16 14:34		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:34		
Nitrogen, NO2 plus NO3	**0.69**	mg/L	0.10	0.014	1		01/13/16 14:34		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**329**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 18:57	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.21**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:54		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: IW-73-201601 **Lab ID: 60211085004** Collected: 01/12/16 14:10 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 13:17	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**568**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 11:49	7439-89-6	
Manganese	**1480**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 11:49	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 12:39	67-64-1	L3
Benzene	**0.11J**	ug/L	1.0	0.060	1		01/14/16 12:39	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 12:39	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 12:39	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 12:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 12:39	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 12:39	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 12:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 12:39	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 12:39	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 12:39	67-66-3	
Chloromethane	**0.15J**	ug/L	1.0	0.080	1		01/14/16 12:39	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 12:39	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 12:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 12:39	107-06-2	
1,1-Dichloroethene	**0.92J**	ug/L	1.0	0.20	1		01/14/16 12:39	75-35-4	
cis-1,2-Dichloroethene	**4.3**	ug/L	1.0	0.080	1		01/14/16 12:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 12:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 12:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 12:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 12:39	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 12:39	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 12:39	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 12:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 12:39	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 12:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 12:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 12:39	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 12:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 12:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 12:39	79-00-5	
Trichloroethene	**103**	ug/L	1.0	0.17	1		01/14/16 12:39	79-01-6	
Vinyl chloride	**0.24J**	ug/L	1.0	0.13	1		01/14/16 12:39	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 12:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/14/16 12:39	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/14/16 12:39	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/14/16 12:39	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 12:39		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: IW-73-201601 **Lab ID: 60211085004** Collected: 01/12/16 14:10 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**75.6**	mg/L	20.0	2.0	1		01/21/16 12:09		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:09		
Alkalinity, Total as CaCO3	**75.6**	mg/L	20.0	2.0	1		01/21/16 12:09		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.57**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**157**	mg/L	20.0	10.0	20		01/17/16 15:05	16887-00-6	
Sulfate	**7.0**	mg/L	1.0	0.24	1		01/17/16 14:47	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:29	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.26**	mg/L	0.10	0.014	1		01/13/16 14:35		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:35		
Nitrogen, NO2 plus NO3	**0.26**	mg/L	0.10	0.014	1		01/13/16 14:35		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**184**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.97J**	mg/L	1.0	0.50	1		01/20/16 19:10	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.14**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:55		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-41R-201601 **Lab ID: 60211085005** Collected: 01/12/16 11:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 13:28	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**15500**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 11:51	7439-89-6	
Manganese	**10100**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 11:51	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 12:53	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 12:53	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 12:53	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 12:53	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 12:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 12:53	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 12:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 12:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 12:53	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 12:53	75-00-3	
Chloroform	**0.81J**	ug/L	1.0	0.14	1		01/14/16 12:53	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/14/16 12:53	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 12:53	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 12:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 12:53	107-06-2	
1,1-Dichloroethene	**0.28J**	ug/L	1.0	0.20	1		01/14/16 12:53	75-35-4	
cis-1,2-Dichloroethene	**40.9**	ug/L	1.0	0.080	1		01/14/16 12:53	156-59-2	
trans-1,2-Dichloroethene	**0.61J**	ug/L	1.0	0.20	1		01/14/16 12:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 12:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 12:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 12:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 12:53	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 12:53	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 12:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 12:53	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 12:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 12:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 12:53	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 12:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 12:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 12:53	79-00-5	
Trichloroethene	**59.9**	ug/L	1.0	0.17	1		01/14/16 12:53	79-01-6	
Vinyl chloride	**0.38J**	ug/L	1.0	0.13	1		01/14/16 12:53	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 12:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/14/16 12:53	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/14/16 12:53	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/14/16 12:53	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 12:53		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-41R-201601 **Lab ID: 60211085005** Collected: 01/12/16 11:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**70.1**	mg/L	20.0	2.0	1		01/21/16 12:13		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:13		
Alkalinity, Total as CaCO3	**70.1**	mg/L	20.0	2.0	1		01/21/16 12:13		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**12.2**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**313**	mg/L	20.0	10.0	20		01/17/16 15:39	16887-00-6	
Sulfate	**2.4**	mg/L	1.0	0.24	1		01/17/16 15:22	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:30	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.021J**	mg/L	0.10	0.014	1		01/13/16 14:35		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:35		
Nitrogen, NO2 plus NO3	**0.021J**	mg/L	0.10	0.014	1		01/13/16 14:35		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**170**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 19:50	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.047**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:55		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: IW-76-201601 **Lab ID: 60211085006** Collected: 01/12/16 16:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 13:39	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**2880**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 11:53	7439-89-6	
Manganese	**2640**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 11:53	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**45.6**	ug/L	10.0	1.9	1		01/15/16 11:56	67-64-1	L1,P2
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 11:56	71-43-2	
Bromodichloromethane	**0.56J**	ug/L	1.0	0.19	1		01/15/16 11:56	75-27-4	
Bromoform	**46.3**	ug/L	1.0	0.070	1		01/15/16 11:56	75-25-2	
Bromomethane	**105**	ug/L	5.0	0.16	1		01/15/16 11:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 11:56	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 11:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 11:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 11:56	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 11:56	75-00-3	
Chloroform	**0.27J**	ug/L	1.0	0.14	1		01/15/16 11:56	67-66-3	
Chloromethane	**21.1**	ug/L	1.0	0.080	1		01/15/16 11:56	74-87-3	
Dibromochloromethane	**1.9**	ug/L	1.0	0.21	1		01/15/16 11:56	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 11:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 11:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 11:56	75-35-4	
cis-1,2-Dichloroethene	**1.9**	ug/L	1.0	0.080	1		01/15/16 11:56	156-59-2	
trans-1,2-Dichloroethene	**0.65J**	ug/L	1.0	0.20	1		01/15/16 11:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 11:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 11:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 11:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 11:56	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 11:56	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 11:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 11:56	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 11:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 11:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 11:56	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 11:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 11:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 11:56	79-00-5	
Trichloroethene	**80.2**	ug/L	1.0	0.17	1		01/15/16 11:56	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 11:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 11:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/15/16 11:56	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/15/16 11:56	17060-07-0	
Toluene-d8 (S)	70	%	80-120		1		01/15/16 11:56	2037-26-5	S2
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 11:56		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: IW-76-201601 **Lab ID: 60211085006** Collected: 01/12/16 16:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:17		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:17		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/21/16 12:17		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**2.9**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.0**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**289**	mg/L	20.0	10.0	20		01/17/16 15:56	16887-00-6	
Sulfate	**1450**	mg/L	100	23.7	100		01/17/16 16:13	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.16**	mg/L	0.10	0.046	1		01/19/16 11:31	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.4**	mg/L	0.10	0.014	1		01/13/16 14:36		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:36		
Nitrogen, NO2 plus NO3	**1.4**	mg/L	0.10	0.014	1		01/13/16 14:36		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 20:29	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.26**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:55		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-39R-201601 **Lab ID: 60211085007** Collected: 01/12/16 13:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 13:50	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**1990**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 11:56	7439-89-6	
Manganese	**986**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 11:56	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 11:55	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 11:55	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 11:55	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 11:55	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 11:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 11:55	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 11:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 11:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 11:55	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 11:55	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 11:55	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/14/16 11:55	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 11:55	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 11:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 11:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 11:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 11:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 11:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 11:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 11:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 11:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 11:55	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 11:55	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 11:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 11:55	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 11:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 11:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 11:55	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 11:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 11:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 11:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 11:55	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 11:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 11:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/14/16 11:55	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/14/16 11:55	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/14/16 11:55	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 11:55		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-39R-201601 **Lab ID: 60211085007** Collected: 01/12/16 13:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**88.1**	mg/L	20.0	2.0	1		01/21/16 12:21		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:21		
Alkalinity, Total as CaCO3	**88.1**	mg/L	20.0	2.0	1		01/21/16 12:21		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/27/16 00:00	7439-89-6	1e
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.2**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:07	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**201**	mg/L	20.0	10.0	20		01/17/16 16:47	16887-00-6	
Sulfate	**3.7**	mg/L	1.0	0.24	1		01/17/16 16:30	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:32	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/13/16 14:37		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:37		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/13/16 14:37		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**189**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.72J**	mg/L	1.0	0.50	1		01/20/16 20:42	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.11**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:56		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-46R-201601 **Lab ID: 60211085008** Collected: 01/12/16 15:56 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 14:02	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**119**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:26	7439-89-6	
Manganese	**107**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 11:58	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 13:22	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 13:22	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 13:22	75-27-4	
Bromoform	**0.91J**	ug/L	1.0	0.070	1		01/14/16 13:22	75-25-2	
Bromomethane	**1.6J**	ug/L	5.0	0.16	1		01/14/16 13:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 13:22	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 13:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 13:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 13:22	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 13:22	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 13:22	67-66-3	
Chloromethane	**0.11J**	ug/L	1.0	0.080	1		01/14/16 13:22	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 13:22	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 13:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 13:22	107-06-2	
1,1-Dichloroethene	**1.3**	ug/L	1.0	0.20	1		01/14/16 13:22	75-35-4	
cis-1,2-Dichloroethene	**10.9**	ug/L	1.0	0.080	1		01/14/16 13:22	156-59-2	
trans-1,2-Dichloroethene	**0.42J**	ug/L	1.0	0.20	1		01/14/16 13:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 13:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 13:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 13:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 13:22	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 13:22	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 13:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 13:22	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 13:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 13:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 13:22	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 13:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 13:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 13:22	79-00-5	
Trichloroethene	**432**	ug/L	5.0	0.85	5		01/14/16 13:37	79-01-6	
Vinyl chloride	**0.56J**	ug/L	1.0	0.13	1		01/14/16 13:22	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 13:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/14/16 13:22	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/14/16 13:22	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/14/16 13:22	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 13:22		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-46R-201601 **Lab ID: 60211085008** Collected: 01/12/16 15:56 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:25		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:25		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/21/16 12:25		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**4.9**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/20/16 11:38	18496-25-8	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**217**	mg/L	20.0	10.0	20		01/17/16 17:56	16887-00-6	
Sulfate	**0.64J**	mg/L	1.0	0.24	1		01/17/16 17:39	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:33	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/13/16 14:38		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:38		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/13/16 14:38		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 20:55	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.062**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:56		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-55R-201601 **Lab ID: 60211085009** Collected: 01/12/16 08:55 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 11:12	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**138**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:28	7439-89-6	
Manganese	**116**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:05	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 12:10	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 12:10	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 12:10	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 12:10	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 12:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 12:10	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 12:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 12:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 12:10	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 12:10	75-00-3	
Chloroform	**0.15J**	ug/L	1.0	0.14	1		01/14/16 12:10	67-66-3	
Chloromethane	**0.19J**	ug/L	1.0	0.080	1		01/14/16 12:10	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 12:10	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 12:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 12:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 12:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 12:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 12:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 12:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 12:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 12:10	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 12:10	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 12:10	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 12:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 12:10	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 12:10	100-42-5	R1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 12:10	79-34-5	R1
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 12:10	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 12:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 12:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 12:10	79-00-5	
Trichloroethene	**0.26J**	ug/L	1.0	0.17	1		01/14/16 12:10	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 12:10	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 12:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/14/16 12:10	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/14/16 12:10	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/14/16 12:10	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 12:10		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-55R-201601 **Lab ID: 60211085009** Collected: 01/12/16 08:55 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**51.8**	mg/L	20.0	2.0	1		01/21/16 12:29		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:29		
Alkalinity, Total as CaCO3	**51.8**	mg/L	20.0	2.0	1		01/21/16 12:29		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.6**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:07	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**11.6**	mg/L	1.0	0.50	1		01/18/16 08:29	16887-00-6	
Sulfate	**16.6**	mg/L	1.0	0.24	1		01/18/16 08:29	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:37	7664-41-7	M1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.16**	mg/L	0.10	0.014	1		01/13/16 14:39		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:39		
Nitrogen, NO2 plus NO3	**0.16**	mg/L	0.10	0.014	1		01/13/16 14:39		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**74.2**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.0**	mg/L	1.0	0.50	1		01/20/16 21:08	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.080**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:57		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-68-201601 **Lab ID: 60211085010** Collected: 01/12/16 11:12 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 14:13	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**456**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:35	7439-89-6	
Manganese	**972**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:11	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 16:16	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 16:16	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 16:16	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 16:16	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 16:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 16:16	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 16:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 16:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 16:16	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 16:16	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 16:16	67-66-3	
Chloromethane	**0.15J**	ug/L	1.0	0.080	1		01/14/16 16:16	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 16:16	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 16:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 16:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 16:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 16:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 16:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 16:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 16:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 16:16	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 16:16	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 16:16	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 16:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 16:16	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 16:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 16:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 16:16	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 16:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 16:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 16:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 16:16	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 16:16	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 16:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/14/16 16:16	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/14/16 16:16	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/14/16 16:16	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 16:16		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-68-201601 **Lab ID: 60211085010** Collected: 01/12/16 11:12 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:37		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:37		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/21/16 12:37		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.36**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:07	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**216**	mg/L	20.0	10.0	20		01/17/16 20:14	16887-00-6	
Sulfate	**1.3**	mg/L	1.0	0.24	1		01/17/16 19:57	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:39	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.17**	mg/L	0.10	0.014	1		01/13/16 14:41		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:41		
Nitrogen, NO2 plus NO3	**0.17**	mg/L	0.10	0.014	1		01/13/16 14:41		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 21:34	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.091**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:57		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: RW-69-201601 **Lab ID: 60211085011** Collected: 01/12/16 13:30 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 14:24	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**177**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:37	7439-89-6	
Manganese	**718**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:13	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 18:56	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 18:56	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 18:56	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 18:56	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 18:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 18:56	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 18:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 18:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 18:56	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 18:56	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 18:56	67-66-3	
Chloromethane	**0.15J**	ug/L	1.0	0.080	1		01/14/16 18:56	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 18:56	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 18:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 18:56	107-06-2	
1,1-Dichloroethene	**0.52J**	ug/L	1.0	0.20	1		01/14/16 18:56	75-35-4	
cis-1,2-Dichloroethene	**4.6**	ug/L	1.0	0.080	1		01/14/16 18:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 18:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 18:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 18:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 18:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 18:56	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 18:56	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 18:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 18:56	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 18:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 18:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 18:56	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 18:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 18:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 18:56	79-00-5	
Trichloroethene	**128**	ug/L	1.0	0.17	1		01/14/16 18:56	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 18:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 18:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/14/16 18:56	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/14/16 18:56	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/14/16 18:56	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 18:56		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: RW-69-201601 **Lab ID: 60211085011** Collected: 01/12/16 13:30 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:42		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:42		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/21/16 12:42		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.4**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**256**	mg/L	20.0	10.0	20		01/17/16 21:22	16887-00-6	
Sulfate	**1.8**	mg/L	1.0	0.24	1		01/17/16 21:05	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:40	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.041J**	mg/L	0.10	0.014	1		01/13/16 14:42		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:42		
Nitrogen, NO2 plus NO3	**0.041J**	mg/L	0.10	0.014	1		01/13/16 14:42		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 21:47	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.062**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:57		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-6-201601 **Lab ID: 60211085012** Collected: 01/12/16 16:45 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 12:10	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**399**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:43	7439-89-6	
Manganese	**259**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:16	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 16:31	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 16:31	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 16:31	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 16:31	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 16:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 16:31	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 16:31	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 16:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 16:31	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 16:31	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 16:31	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/14/16 16:31	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 16:31	124-48-1	
1,1-Dichloroethane	**5.2**	ug/L	1.0	0.050	1		01/14/16 16:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 16:31	107-06-2	
1,1-Dichloroethene	**0.60J**	ug/L	1.0	0.20	1		01/14/16 16:31	75-35-4	
cis-1,2-Dichloroethene	**6.2**	ug/L	1.0	0.080	1		01/14/16 16:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 16:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 16:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 16:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 16:31	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 16:31	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 16:31	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 16:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 16:31	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 16:31	100-42-5	M1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 16:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 16:31	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 16:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 16:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 16:31	79-00-5	
Trichloroethene	**4.2**	ug/L	1.0	0.17	1		01/14/16 16:31	79-01-6	
Vinyl chloride	**0.32J**	ug/L	1.0	0.13	1		01/14/16 16:31	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 16:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/14/16 16:31	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/14/16 16:31	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		01/14/16 16:31	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 16:31		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-6-201601 **Lab ID: 60211085012** Collected: 01/12/16 16:45 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**126**	mg/L	20.0	2.0	1		01/21/16 12:47		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 12:47		
Alkalinity, Total as CaCO3	**126**	mg/L	20.0	2.0	1		01/21/16 12:47		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.39**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.0**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**114**	mg/L	10.0	5.0	10		01/17/16 21:40	16887-00-6	
Sulfate	**98.7**	mg/L	10.0	2.4	10		01/17/16 21:40	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:41	7664-41-7	M1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**22.6**	mg/L	1.0	0.14	10		01/13/16 15:16		
Nitrogen, Nitrite	ND	mg/L	1.0	0.23	10		01/13/16 15:16		
Nitrogen, NO2 plus NO3	**22.6**	mg/L	1.0	0.14	10		01/13/16 15:16		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**387**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.52J**	mg/L	1.0	0.50	1		01/20/16 22:27	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.095**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:58		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-27-201601 **Lab ID: 60211085013** Collected: 01/12/16 09:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 14:35	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**992**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 12:22	7439-89-6	
Manganese	**21.1**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:22	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 16:45	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 16:45	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 16:45	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 16:45	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 16:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 16:45	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 16:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 16:45	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 16:45	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 16:45	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 16:45	67-66-3	
Chloromethane	**0.13J**	ug/L	1.0	0.080	1		01/14/16 16:45	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 16:45	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 16:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 16:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 16:45	75-35-4	
cis-1,2-Dichloroethene	**0.42J**	ug/L	1.0	0.080	1		01/14/16 16:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 16:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 16:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 16:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 16:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 16:45	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 16:45	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 16:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 16:45	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 16:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 16:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 16:45	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 16:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 16:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 16:45	79-00-5	
Trichloroethene	**0.61J**	ug/L	1.0	0.17	1		01/14/16 16:45	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 16:45	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 16:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/14/16 16:45	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/14/16 16:45	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/14/16 16:45	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 16:45		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-27-201601 **Lab ID: 60211085013** Collected: 01/12/16 09:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**39.0**	mg/L	20.0	2.0	1		01/21/16 13:07		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 13:07		
Alkalinity, Total as CaCO3	**39.0**	mg/L	20.0	2.0	1		01/21/16 13:07		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.81**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.9**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**29.0**	mg/L	5.0	2.5	5		01/17/16 22:31	16887-00-6	
Sulfate	**7.2**	mg/L	1.0	0.24	1		01/17/16 22:14	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:43	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.30**	mg/L	0.10	0.014	1		01/13/16 15:18		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 15:18		
Nitrogen, NO2 plus NO3	**0.30**	mg/L	0.10	0.014	1		01/13/16 15:18		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**140**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.87J**	mg/L	1.0	0.50	1		01/20/16 22:53	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.17**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:59		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-31R-201601 **Lab ID: 60211085014** Collected: 01/12/16 15:10 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 14:46	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**1330**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 12:25	7439-89-6	
Manganese	**668**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:25	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 17:00	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 17:00	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 17:00	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 17:00	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 17:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 17:00	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 17:00	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 17:00	56-23-5	
Chlorobenzene	**0.22J**	ug/L	1.0	0.21	1		01/14/16 17:00	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:00	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 17:00	67-66-3	
Chloromethane	**0.25J**	ug/L	1.0	0.080	1		01/14/16 17:00	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 17:00	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 17:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 17:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 17:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 17:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 17:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 17:00	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 17:00	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 17:00	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 17:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 17:00	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 17:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:00	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 17:00	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 17:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 17:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 17:00	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 17:00	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 17:00	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 17:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		01/14/16 17:00	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		01/14/16 17:00	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/14/16 17:00	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 17:00		

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(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-31R-201601 **Lab ID: 60211085014** Collected: 01/12/16 15:10 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**27.9**	mg/L	20.0	2.0	1		01/21/16 13:12		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 13:12		
Alkalinity, Total as CaCO3	**27.9**	mg/L	20.0	2.0	1		01/21/16 13:12		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.46**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.3**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**117**	mg/L	10.0	5.0	10		01/17/16 23:06	16887-00-6	
Sulfate	**28.8**	mg/L	2.0	0.47	2		01/17/16 22:48	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:44	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.059J**	mg/L	0.10	0.014	1		01/13/16 14:47		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:47		
Nitrogen, NO2 plus NO3	**0.059J**	mg/L	0.10	0.014	1		01/13/16 14:47		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**318**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 23:06	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.058**	mg/L	0.030	0.010	1	01/20/16 11:14	01/20/16 15:59		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-32R-201601 **Lab ID: 60211085015** Collected: 01/12/16 17:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 14:57	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**4280**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 12:31	7439-89-6	
Manganese	**2130**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:31	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**49.9**	ug/L	10.0	1.9	1		01/15/16 16:48	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 10:13	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 10:13	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 10:13	75-25-2	
Bromomethane	**14.7**	ug/L	5.0	0.16	1		01/14/16 10:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 10:13	78-93-3	
Carbon disulfide	**0.59J**	ug/L	5.0	0.12	1		01/14/16 10:13	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 10:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 10:13	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 10:13	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 10:13	67-66-3	
Chloromethane	**11.6**	ug/L	1.0	0.080	1		01/14/16 10:13	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 10:13	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 10:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 10:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 10:13	75-35-4	
cis-1,2-Dichloroethene	**0.45J**	ug/L	1.0	0.080	1		01/14/16 10:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 10:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 10:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 10:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 10:13	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 10:13	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 10:13	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 10:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 10:13	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 10:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 10:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 10:13	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 10:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 10:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 10:13	79-00-5	
Trichloroethene	**13.1**	ug/L	1.0	0.17	1		01/14/16 10:13	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 10:13	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 10:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/14/16 10:13	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/14/16 10:13	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/14/16 10:13	2037-26-5	
Preservation pH	**3.0**		0.10	0.10	1		01/14/16 10:13		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-32R-201601 **Lab ID: 60211085015** Collected: 01/12/16 17:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 13:16		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 13:16		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	2.0	1		01/21/16 13:16		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**4.2**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**4.9**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**232**	mg/L	20.0	10.0	20		01/17/16 23:23	16887-00-6	
Sulfate	**339**	mg/L	20.0	4.7	20		01/17/16 23:23	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:46	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.29**	mg/L	0.10	0.014	1		01/13/16 14:48		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:48		
Nitrogen, NO2 plus NO3	**0.29**	mg/L	0.10	0.014	1		01/13/16 14:48		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	ND	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 23:19	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.069**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:14		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-97-201601 **Lab ID: 60211085016** Collected: 01/12/16 13:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 15:09	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**320**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:50	7439-89-6	
Manganese	**18.9**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:34	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 17:14	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 17:14	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 17:14	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 17:14	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 17:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 17:14	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 17:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 17:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 17:14	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:14	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 17:14	67-66-3	
Chloromethane	**0.11J**	ug/L	1.0	0.080	1		01/14/16 17:14	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 17:14	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 17:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 17:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 17:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 17:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 17:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 17:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 17:14	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 17:14	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 17:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 17:14	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 17:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 17:14	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 17:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 17:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 17:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 17:14	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 17:14	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 17:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/14/16 17:14	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/14/16 17:14	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/14/16 17:14	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 17:14		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-97-201601 **Lab ID: 60211085016** Collected: 01/12/16 13:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**75.6**	mg/L	20.0	2.0	1		01/21/16 13:50		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 13:50		
Alkalinity, Total as CaCO3	**75.6**	mg/L	20.0	2.0	1		01/21/16 13:50		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.30**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.8**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:09	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**9.5**	mg/L	1.0	0.50	1		01/18/16 00:32	16887-00-6	
Sulfate	**49.2**	mg/L	5.0	1.2	5		01/17/16 23:40	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:47	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.16**	mg/L	0.10	0.014	1		01/13/16 14:48		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:48		
Nitrogen, NO2 plus NO3	**0.16**	mg/L	0.10	0.014	1		01/13/16 14:48		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**312**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.90J**	mg/L	1.0	0.50	1		01/20/16 23:32	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.13**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:15		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-183-201601 **Lab ID: 60211085017** Collected: 01/12/16 09:03 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 15:20	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**167**	ug/L	50.0	9.0	1	01/21/16 15:45	01/22/16 12:54	7439-89-6	
Manganese	**36.9**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:36	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 17:29	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 17:29	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 17:29	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 17:29	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 17:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 17:29	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 17:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 17:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 17:29	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:29	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 17:29	67-66-3	
Chloromethane	**0.14J**	ug/L	1.0	0.080	1		01/14/16 17:29	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 17:29	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 17:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 17:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:29	75-35-4	
cis-1,2-Dichloroethene	**0.32J**	ug/L	1.0	0.080	1		01/14/16 17:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 17:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 17:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 17:29	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 17:29	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 17:29	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 17:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 17:29	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 17:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 17:29	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 17:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 17:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 17:29	79-00-5	
Trichloroethene	**2.7**	ug/L	1.0	0.17	1		01/14/16 17:29	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 17:29	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 17:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/14/16 17:29	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/14/16 17:29	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/14/16 17:29	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 17:29		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-183-201601 **Lab ID: 60211085017** Collected: 01/12/16 09:03 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**96.2**	mg/L	20.0	2.0	1		01/21/16 13:55		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 13:55		
Alkalinity, Total as CaCO3	**96.2**	mg/L	20.0	2.0	1		01/21/16 13:55		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.2**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:09	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.3**	mg/L	1.0	0.50	1		01/18/16 00:49	16887-00-6	
Sulfate	**24.2**	mg/L	2.0	0.47	2		01/18/16 01:06	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:50	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.77**	mg/L	0.10	0.014	1		01/13/16 14:49		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:49		
Nitrogen, NO2 plus NO3	**0.77**	mg/L	0.10	0.014	1		01/13/16 14:49		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**203**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.53J**	mg/L	1.0	0.50	1		01/20/16 23:45	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.12**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:15		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-96-201601 **Lab ID: 60211085018** Collected: 01/12/16 11:05 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 15:31	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**963**	ug/L	50.0	9.0	1	01/14/16 09:45	01/19/16 12:38	7439-89-6	
Manganese	**436**	ug/L	5.0	2.4	1	01/14/16 09:45	01/19/16 12:38	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 17:43	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 17:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 17:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 17:43	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 17:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 17:43	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 17:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 17:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 17:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 17:43	67-66-3	
Chloromethane	**0.15J**	ug/L	1.0	0.080	1		01/14/16 17:43	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 17:43	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 17:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 17:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 17:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 17:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 17:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 17:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 17:43	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 17:43	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 17:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 17:43	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 17:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 17:43	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 17:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 17:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 17:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 17:43	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 17:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 17:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/14/16 17:43	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/14/16 17:43	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/14/16 17:43	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 17:43		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-96-201601 **Lab ID: 60211085018** Collected: 01/12/16 11:05 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**26.2**	mg/L	20.0	2.0	1		01/21/16 13:59		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 13:59		
Alkalinity, Total as CaCO3	**26.2**	mg/L	20.0	2.0	1		01/21/16 13:59		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.56**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.2**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:09	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**23.7**	mg/L	2.0	1.0	2		01/19/16 05:41	16887-00-6	
Sulfate	**11.2**	mg/L	1.0	0.24	1		01/19/16 05:24	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:51	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.16**	mg/L	0.10	0.014	1		01/13/16 14:50		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:50		
Nitrogen, NO2 plus NO3	**0.16**	mg/L	0.10	0.014	1		01/13/16 14:50		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**332**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/20/16 23:58	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.036**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:15		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-89-201601 **Lab ID: 60211085019** Collected: 01/12/16 17:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 15:42	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**92.4**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:17	7439-89-6	
Manganese	**385**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:17	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 17:58	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 17:58	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 17:58	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 17:58	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 17:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 17:58	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 17:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 17:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 17:58	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:58	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 17:58	67-66-3	
Chloromethane	**0.18J**	ug/L	1.0	0.080	1		01/14/16 17:58	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 17:58	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 17:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 17:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:58	75-35-4	
cis-1,2-Dichloroethene	**0.20J**	ug/L	1.0	0.080	1		01/14/16 17:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 17:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 17:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 17:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 17:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 17:58	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 17:58	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 17:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 17:58	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 17:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 17:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 17:58	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 17:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 17:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 17:58	79-00-5	
Trichloroethene	**11.6**	ug/L	1.0	0.17	1		01/14/16 17:58	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 17:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 17:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		01/14/16 17:58	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/14/16 17:58	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/14/16 17:58	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 17:58		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-89-201601 **Lab ID: 60211085019** Collected: 01/12/16 17:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**30.6**	mg/L	20.0	2.0	1		01/21/16 14:03		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:03		
Alkalinity, Total as CaCO3	**30.6**	mg/L	20.0	2.0	1		01/21/16 14:03		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.4**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:09	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**39.9**	mg/L	5.0	2.5	5		01/18/16 02:15	16887-00-6	
Sulfate	**5.7**	mg/L	1.0	0.24	1		01/18/16 01:58	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:52	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**86.5**	mg/L	5.0	0.70	50		01/13/16 15:23		
Nitrogen, Nitrite	ND	mg/L	5.0	1.2	50		01/13/16 15:23		
Nitrogen, NO2 plus NO3	**86.5**	mg/L	5.0	0.70	50		01/13/16 15:23		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**282**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.72J**	mg/L	1.0	0.50	1		01/21/16 00:11	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.069**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:16		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-58R-201601 **Lab ID: 60211085020** Collected: 01/12/16 10:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 16:07	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**10400**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:19	7439-89-6	
Manganese	**2170**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:19	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 19:10	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 19:10	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 19:10	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 19:10	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 19:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 19:10	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 19:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 19:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 19:10	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 19:10	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 19:10	67-66-3	
Chloromethane	**0.23J**	ug/L	1.0	0.080	1		01/14/16 19:10	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 19:10	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 19:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 19:10	107-06-2	
1,1-Dichloroethene	**1.9**	ug/L	1.0	0.20	1		01/14/16 19:10	75-35-4	
cis-1,2-Dichloroethene	**28.7**	ug/L	1.0	0.080	1		01/14/16 19:10	156-59-2	
trans-1,2-Dichloroethene	**0.24J**	ug/L	1.0	0.20	1		01/14/16 19:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 19:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 19:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 19:10	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 19:10	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 19:10	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 19:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 19:10	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 19:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 19:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 19:10	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 19:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 19:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 19:10	79-00-5	
Trichloroethene	**312**	ug/L	5.0	0.85	5		01/15/16 11:27	79-01-6	
Vinyl chloride	**0.67J**	ug/L	1.0	0.13	1		01/14/16 19:10	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 19:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/14/16 19:10	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/14/16 19:10	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/14/16 19:10	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 19:10		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-58R-201601 **Lab ID: 60211085020** Collected: 01/12/16 10:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**35.3**	mg/L	20.0	2.0	1		01/21/16 14:07		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:07		
Alkalinity, Total as CaCO3	**35.3**	mg/L	20.0	2.0	1		01/21/16 14:07		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**7.0**	mg/L	0.20		1		01/25/16 00:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.5**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**228**	mg/L	20.0	10.0	20		01/15/16 20:17	16887-00-6	
Sulfate	**1.2**	mg/L	1.0	0.24	1		01/15/16 20:00	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:54	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/13/16 15:20		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 15:20		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/13/16 15:20		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**249**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/21/16 00:25	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.043**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:16		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-88-201601 **Lab ID: 60211085021** Collected: 01/12/16 13:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 16:19	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**813**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:22	7439-89-6	
Manganese	**496**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:22	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 18:12	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 18:12	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 18:12	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 18:12	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 18:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 18:12	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 18:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 18:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 18:12	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 18:12	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 18:12	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/14/16 18:12	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 18:12	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 18:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 18:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 18:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 18:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 18:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 18:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 18:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 18:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 18:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 18:12	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 18:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 18:12	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 18:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 18:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 18:12	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 18:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 18:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 18:12	79-00-5	
Trichloroethene	**0.58J**	ug/L	1.0	0.17	1		01/14/16 18:12	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 18:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 18:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/14/16 18:12	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		01/14/16 18:12	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/14/16 18:12	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 18:12		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-88-201601 **Lab ID: 60211085021** Collected: 01/12/16 13:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**132**	mg/L	20.0	2.0	1		01/21/16 14:11		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:11		
Alkalinity, Total as CaCO3	**132**	mg/L	20.0	2.0	1		01/21/16 14:11		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/12/16 23:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**35.7**	mg/L	5.0	2.5	5		01/15/16 20:34	16887-00-6	
Sulfate	**5.2**	mg/L	1.0	0.24	1		01/15/16 21:26	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:55	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/13/16 14:56		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:56		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/13/16 14:56		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**341**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**1.9**	mg/L	1.0	0.50	1		01/21/16 01:04	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.055**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:16		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-20-201601 **Lab ID: 60211085022** Collected: 01/12/16 15:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 17:26	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**31.4J**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:24	7439-89-6	
Manganese	**8.9**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:24	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 18:27	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 18:27	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 18:27	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 18:27	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 18:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 18:27	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 18:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 18:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 18:27	108-90-7	R1
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 18:27	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 18:27	67-66-3	
Chloromethane	**0.088J**	ug/L	1.0	0.080	1		01/14/16 18:27	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 18:27	124-48-1	R1
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 18:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 18:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 18:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 18:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 18:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 18:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 18:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 18:27	10061-02-6	R1
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 18:27	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 18:27	591-78-6	M1
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 18:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 18:27	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 18:27	100-42-5	M1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 18:27	79-34-5	R1
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 18:27	127-18-4	R1
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 18:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 18:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 18:27	79-00-5	R1
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 18:27	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 18:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 18:27	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/14/16 18:27	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/14/16 18:27	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/14/16 18:27	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 18:27		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-20-201601 **Lab ID: 60211085022** Collected: 01/12/16 15:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**51.9**	mg/L	20.0	2.0	1		01/21/16 14:15		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:15		
Alkalinity, Total as CaCO3	**51.9**	mg/L	20.0	2.0	1		01/21/16 14:15		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/12/16 23:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.7**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**98.7**	mg/L	5.0	2.5	5		01/15/16 22:35	16887-00-6	
Sulfate	**18.0**	mg/L	2.0	0.47	2		01/15/16 21:43	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 11:56	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.69**	mg/L	0.10	0.014	1		01/13/16 14:57		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:57		
Nitrogen, NO2 plus NO3	**0.69**	mg/L	0.10	0.014	1		01/13/16 14:57		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**235**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/21/16 15:15	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.040**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:17		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-63R-201601 **Lab ID: 60211085023** Collected: 01/12/16 09:10 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 16:30	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**219**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:35	7439-89-6	
Manganese	**610**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:35	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 18:41	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 18:41	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 18:41	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 18:41	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 18:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 18:41	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 18:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 18:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 18:41	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 18:41	75-00-3	
Chloroform	**0.65J**	ug/L	1.0	0.14	1		01/14/16 18:41	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/14/16 18:41	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 18:41	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 18:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 18:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 18:41	75-35-4	
cis-1,2-Dichloroethene	**0.39J**	ug/L	1.0	0.080	1		01/14/16 18:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 18:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 18:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 18:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 18:41	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 18:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 18:41	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 18:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 18:41	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 18:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 18:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 18:41	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 18:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 18:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 18:41	79-00-5	
Trichloroethene	**3.2**	ug/L	1.0	0.17	1		01/14/16 18:41	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 18:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 18:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	80-120		1		01/14/16 18:41	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/14/16 18:41	17060-07-0	
Toluene-d8 (S)	104	%	80-120		1		01/14/16 18:41	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 18:41		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-63R-201601 **Lab ID: 60211085023** Collected: 01/12/16 09:10 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**63.4**	mg/L	20.0	2.0	1		01/21/16 14:36		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:36		
Alkalinity, Total as CaCO3	**63.4**	mg/L	20.0	2.0	1		01/21/16 14:36		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/12/16 23:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.9**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**115**	mg/L	10.0	5.0	10		01/15/16 23:43	16887-00-6	
Sulfate	**7.5**	mg/L	1.0	0.24	1		01/15/16 23:26	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 12:00	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.11**	mg/L	0.10	0.014	1		01/13/16 14:59		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 14:59		
Nitrogen, NO2 plus NO3	**0.11**	mg/L	0.10	0.014	1		01/13/16 14:59		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**205**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.53J**	mg/L	1.0	0.50	1		01/21/16 01:17	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.032**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:19		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-22-201601 **Lab ID: 60211085024** Collected: 01/12/16 15:25 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 16:41	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**34.7J**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:37	7439-89-6	
Manganese	**98.5**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:37	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 22:48	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 22:48	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 22:48	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 22:48	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 22:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 22:48	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 22:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 22:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 22:48	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 22:48	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 22:48	67-66-3	
Chloromethane	**0.14J**	ug/L	1.0	0.080	1		01/14/16 22:48	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 22:48	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 22:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 22:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 22:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 22:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 22:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 22:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 22:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 22:48	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 22:48	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 22:48	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 22:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 22:48	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 22:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 22:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 22:48	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 22:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 22:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 22:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 22:48	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 22:48	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 22:48	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/14/16 22:48	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/14/16 22:48	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/14/16 22:48	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 22:48		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-22-201601 **Lab ID: 60211085024** Collected: 01/12/16 15:25 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**51.6**	mg/L	20.0	2.0	1		01/21/16 14:39		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:39		
Alkalinity, Total as CaCO3	**51.6**	mg/L	20.0	2.0	1		01/21/16 14:39		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/27/16 00:00	7439-89-6	1e
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.3**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.0**	mg/L	1.0	0.50	1		01/16/16 00:01	16887-00-6	
Sulfate	**12.9**	mg/L	1.0	0.24	1		01/16/16 00:01	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 12:04	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/13/16 15:00		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 15:00		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/13/16 15:00		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**517**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.67J**	mg/L	1.0	0.50	1		01/21/16 01:30	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.028J**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:19		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-14-201601 **Lab ID: 60211085025** Collected: 01/12/16 15:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 16:52	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**145**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:39	7439-89-6	
Manganese	**11.6**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:39	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 23:03	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 23:03	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 23:03	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 23:03	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 23:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 23:03	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 23:03	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 23:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 23:03	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 23:03	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 23:03	67-66-3	
Chloromethane	**0.17J**	ug/L	1.0	0.080	1		01/14/16 23:03	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 23:03	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 23:03	75-34-3	
1,2-Dichloroethane	**0.62J**	ug/L	1.0	0.12	1		01/14/16 23:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 23:03	75-35-4	
cis-1,2-Dichloroethene	**10**	ug/L	1.0	0.080	1		01/14/16 23:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 23:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 23:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 23:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 23:03	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 23:03	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 23:03	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 23:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 23:03	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 23:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 23:03	79-34-5	
Tetrachloroethene	**18.6**	ug/L	1.0	0.10	1		01/14/16 23:03	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 23:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 23:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 23:03	79-00-5	
Trichloroethene	**4.3**	ug/L	1.0	0.17	1		01/14/16 23:03	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 23:03	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 23:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/14/16 23:03	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/14/16 23:03	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/14/16 23:03	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 23:03		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-14-201601 **Lab ID: 60211085025** Collected: 01/12/16 15:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**38.5**	mg/L	20.0	2.0	1		01/21/16 14:44		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:44		
Alkalinity, Total as CaCO3	**38.5**	mg/L	20.0	2.0	1		01/21/16 14:44		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	ND	mg/L	0.20		1		01/12/16 23:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.8**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.2**	mg/L	1.0	0.50	1		01/16/16 00:52	16887-00-6	
Sulfate	**11.5**	mg/L	1.0	0.24	1		01/16/16 00:52	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 12:05	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.48**	mg/L	0.10	0.014	1		01/13/16 15:01		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 15:01		
Nitrogen, NO2 plus NO3	**0.48**	mg/L	0.10	0.014	1		01/13/16 15:01		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**143**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.71J**	mg/L	1.0	0.50	1		01/21/16 01:43	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.055**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:20		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-90-201601 **Lab ID: 60211085026** Collected: 01/12/16 11:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 17:59	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**1840**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:42	7439-89-6	
Manganese	**248**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:42	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 23:17	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 23:17	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 23:17	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 23:17	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 23:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 23:17	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 23:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 23:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 23:17	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 23:17	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 23:17	67-66-3	
Chloromethane	**0.10J**	ug/L	1.0	0.080	1		01/14/16 23:17	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 23:17	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 23:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 23:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 23:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 23:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 23:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 23:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 23:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 23:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 23:17	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 23:17	591-78-6	L3,M0
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 23:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 23:17	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 23:17	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 23:17	79-34-5	R1
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 23:17	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 23:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 23:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 23:17	79-00-5	
Trichloroethene	**0.25J**	ug/L	1.0	0.17	1		01/14/16 23:17	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 23:17	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 23:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/14/16 23:17	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/14/16 23:17	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/14/16 23:17	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 23:17		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-90-201601 **Lab ID: 60211085026** Collected: 01/12/16 11:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**171**	mg/L	20.0	2.0	1		01/21/16 14:48		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:48		
Alkalinity, Total as CaCO3	**171**	mg/L	20.0	2.0	1		01/21/16 14:48		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.98**	mg/L	0.20		1		01/12/16 23:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.2**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**94.9**	mg/L	10.0	5.0	10		01/16/16 01:44	16887-00-6	
Sulfate	**34.4**	mg/L	5.0	1.2	5		01/16/16 01:09	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 12:06	7664-41-7	M1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/13/16 15:01		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 15:01		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/13/16 15:01		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**381**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**4.1**	mg/L	1.0	0.50	1		01/25/16 12:33	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.11**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:20		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-2-201601 **Lab ID: 60211085027** Collected: 01/12/16 15:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 17:03	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**733**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:48	7439-89-6	
Manganese	**17.4**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:48	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 23:32	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 23:32	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 23:32	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 23:32	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 23:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 23:32	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 23:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 23:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 23:32	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 23:32	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 23:32	67-66-3	
Chloromethane	**0.22J**	ug/L	1.0	0.080	1		01/14/16 23:32	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 23:32	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 23:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 23:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 23:32	75-35-4	
cis-1,2-Dichloroethene	**0.42J**	ug/L	1.0	0.080	1		01/14/16 23:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 23:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 23:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 23:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 23:32	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 23:32	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 23:32	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 23:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 23:32	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 23:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 23:32	79-34-5	
Tetrachloroethene	**0.28J**	ug/L	1.0	0.10	1		01/14/16 23:32	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 23:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 23:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 23:32	79-00-5	
Trichloroethene	**0.21J**	ug/L	1.0	0.17	1		01/14/16 23:32	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 23:32	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 23:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/14/16 23:32	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/14/16 23:32	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/14/16 23:32	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 23:32		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-2-201601 **Lab ID: 60211085027** Collected: 01/12/16 15:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**60.7**	mg/L	20.0	2.0	1		01/21/16 14:58		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 14:58		
Alkalinity, Total as CaCO3	**60.7**	mg/L	20.0	2.0	1		01/21/16 14:58		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.29**	mg/L	0.20		1		01/12/16 23:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		01/12/16 23:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:12	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**44.6**	mg/L	10.0	5.0	10		01/16/16 02:35	16887-00-6	
Sulfate	**15.4**	mg/L	1.0	0.24	1		01/16/16 02:18	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 12:08	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.87**	mg/L	0.10	0.014	1		01/13/16 15:02		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 15:02		
Nitrogen, NO2 plus NO3	**0.87**	mg/L	0.10	0.014	1		01/13/16 15:02		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**154**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		01/21/16 01:56	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.18**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:21		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-4-201601 **Lab ID: 60211085028** Collected: 01/12/16 13:25 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 17:14	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**2350**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:50	7439-89-6	
Manganese	**3420**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:50	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 23:46	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 23:46	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 23:46	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 23:46	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 23:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 23:46	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 23:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 23:46	56-23-5	
Chlorobenzene	**0.81J**	ug/L	1.0	0.21	1		01/14/16 23:46	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 23:46	75-00-3	
Chloroform	**0.20J**	ug/L	1.0	0.14	1		01/14/16 23:46	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/14/16 23:46	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 23:46	124-48-1	
1,1-Dichloroethane	**0.20J**	ug/L	1.0	0.050	1		01/14/16 23:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 23:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 23:46	75-35-4	
cis-1,2-Dichloroethene	**2.5**	ug/L	1.0	0.080	1		01/14/16 23:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 23:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 23:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 23:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 23:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 23:46	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 23:46	591-78-6	L3
Methylene chloride	**3.3**	ug/L	1.0	0.15	1		01/14/16 23:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 23:46	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 23:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 23:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 23:46	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 23:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 23:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 23:46	79-00-5	
Trichloroethene	**1.5**	ug/L	1.0	0.17	1		01/14/16 23:46	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 23:46	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 23:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/14/16 23:46	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		01/14/16 23:46	17060-07-0	
Toluene-d8 (S)	104	%	80-120		1		01/14/16 23:46	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 23:46		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: ITMW-4-201601 **Lab ID: 60211085028** Collected: 01/12/16 13:25 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**81.1**	mg/L	20.0	2.0	1		01/21/16 15:02		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/21/16 15:02		
Alkalinity, Total as CaCO3	**81.1**	mg/L	20.0	2.0	1		01/21/16 15:02		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**2.2**	mg/L	0.20		1		01/12/16 23:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.4**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:12	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.2**	mg/L	1.0	0.50	1		01/16/16 02:53	16887-00-6	
Sulfate	**15.1**	mg/L	1.0	0.24	1		01/16/16 02:53	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.14**	mg/L	0.10	0.046	1		01/19/16 12:10	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/13/16 15:05		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 15:05		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/13/16 15:05		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**141**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**7.8**	mg/L	1.0	0.50	1		01/21/16 15:41	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.099**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:21		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-28-201601 **Lab ID: 60211085029** Collected: 01/12/16 11:50 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Alcohol by Direct Inject GCFID	Analytical Method: EPA 8015 - Alcohol								
2-Chloroethanol	ND	ug/L	10000	1980	1		01/15/16 18:32	107-07-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**203**	ug/L	50.0	9.0	1	01/14/16 09:45	01/21/16 12:53	7439-89-6	
Manganese	**30.0**	ug/L	5.0	2.4	1	01/14/16 09:45	01/21/16 12:53	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 00:01	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 00:01	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 00:01	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 00:01	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 00:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 00:01	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 00:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 00:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 00:01	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:01	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 00:01	67-66-3	
Chloromethane	**0.27J**	ug/L	1.0	0.080	1		01/15/16 00:01	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 00:01	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 00:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 00:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 00:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 00:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 00:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 00:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 00:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 00:01	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 00:01	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 00:01	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 00:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 00:01	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 00:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 00:01	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 00:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 00:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 00:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 00:01	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 00:01	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 00:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	80-120		1		01/15/16 00:01	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		01/15/16 00:01	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 00:01	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 00:01		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: MW-28-201601 **Lab ID: 60211085029** Collected: 01/12/16 11:50 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**89.1**	mg/L	20.0	2.0	1		01/25/16 09:39		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	2.0	1		01/25/16 09:39		
Alkalinity, Total as CaCO3	**89.1**	mg/L	20.0	2.0	1		01/25/16 09:39		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4								
Iron, Ferric	**0.20**	mg/L	0.20		1		01/12/16 23:00	7439-89-6	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		01/15/16 00:00		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.012	1		01/19/16 15:12	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**16.9**	mg/L	2.0	1.0	2		01/18/16 03:58	16887-00-6	
Sulfate	**36.2**	mg/L	2.0	0.47	2		01/18/16 03:58	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	0.10	0.046	1		01/19/16 12:11	7664-41-7	M1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.014	1		01/13/16 15:06		
Nitrogen, Nitrite	ND	mg/L	0.10	0.023	1		01/13/16 15:06		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	0.014	1		01/13/16 15:06		
Total Carbon Dioxide Calc	Analytical Method: SM 4500-CO2 D								
Carbon Dioxide Calculation	**217**	mg/L	20.0	20.0	1		01/26/16 00:00		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**0.65J**	mg/L	1.0	0.50	1		01/25/16 13:00	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Method: SM 4500-P E Preparation Method: SM4500-P B								
Phosphate as P04	**0.19**	mg/L	0.030	0.010	1	01/21/16 09:40	01/21/16 15:21		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: DUP-07-201601 **Lab ID: 60211085030** Collected: 01/12/16 11:20 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 00:15	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 00:15	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 00:15	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 00:15	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 00:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 00:15	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 00:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 00:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 00:15	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:15	75-00-3	
Chloroform	**0.81J**	ug/L	1.0	0.14	1		01/15/16 00:15	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/15/16 00:15	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 00:15	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 00:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 00:15	107-06-2	
1,1-Dichloroethene	**0.30J**	ug/L	1.0	0.20	1		01/15/16 00:15	75-35-4	
cis-1,2-Dichloroethene	**40.1**	ug/L	1.0	0.080	1		01/15/16 00:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 00:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 00:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 00:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 00:15	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 00:15	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 00:15	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 00:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 00:15	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 00:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 00:15	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 00:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 00:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 00:15	79-00-5	
Trichloroethene	**56.6**	ug/L	1.0	0.17	1		01/15/16 00:15	79-01-6	
Vinyl chloride	**0.35J**	ug/L	1.0	0.13	1		01/15/16 00:15	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 00:15	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/15/16 00:15	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		01/15/16 00:15	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		01/15/16 00:15	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 00:15		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: DUP-06-201601 **Lab ID: 60211085031** Collected: 01/12/16 09:35 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 00:30	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 00:30	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 00:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 00:30	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 00:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 00:30	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 00:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 00:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 00:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:30	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 00:30	67-66-3	
Chloromethane	**0.14J**	ug/L	1.0	0.080	1		01/15/16 00:30	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 00:30	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 00:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 00:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 00:30	75-35-4	
cis-1,2-Dichloroethene	**0.22J**	ug/L	1.0	0.080	1		01/15/16 00:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 00:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 00:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 00:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 00:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 00:30	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 00:30	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 00:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 00:30	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 00:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 00:30	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 00:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 00:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 00:30	79-00-5	
Trichloroethene	**0.28J**	ug/L	1.0	0.17	1		01/15/16 00:30	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 00:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 00:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/15/16 00:30	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/15/16 00:30	17060-07-0	
Toluene-d8 (S)	104	%	80-120		1		01/15/16 00:30	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 00:30		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: DUP-05-201601 **Lab ID: 60211085032** Collected: 01/12/16 10:55 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 00:44	67-64-1	L3
Benzene	**0.17J**	ug/L	1.0	0.060	1		01/15/16 00:44	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 00:44	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 00:44	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 00:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 00:44	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 00:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 00:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 00:44	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:44	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 00:44	67-66-3	
Chloromethane	**0.24J**	ug/L	1.0	0.080	1		01/15/16 00:44	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 00:44	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 00:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 00:44	107-06-2	
1,1-Dichloroethene	**0.28J**	ug/L	1.0	0.20	1		01/15/16 00:44	75-35-4	
cis-1,2-Dichloroethene	**3.3**	ug/L	1.0	0.080	1		01/15/16 00:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 00:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 00:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 00:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 00:44	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 00:44	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 00:44	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 00:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 00:44	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 00:44	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 00:44	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 00:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 00:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 00:44	79-00-5	
Trichloroethene	**135**	ug/L	1.0	0.17	1		01/15/16 00:44	79-01-6	
Vinyl chloride	**0.18J**	ug/L	1.0	0.13	1		01/15/16 00:44	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 00:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/15/16 00:44	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/15/16 00:44	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/15/16 00:44	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 00:44		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: DUP-10-201601 **Lab ID: 60211085033** Collected: 01/12/16 10:15 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 00:59	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 00:59	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 00:59	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 00:59	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 00:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 00:59	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 00:59	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 00:59	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 00:59	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:59	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 00:59	67-66-3	
Chloromethane	**0.32J**	ug/L	1.0	0.080	1		01/15/16 00:59	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 00:59	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 00:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 00:59	107-06-2	
1,1-Dichloroethene	**1.8**	ug/L	1.0	0.20	1		01/15/16 00:59	75-35-4	
cis-1,2-Dichloroethene	**29.4**	ug/L	1.0	0.080	1		01/15/16 00:59	156-59-2	
trans-1,2-Dichloroethene	**0.25J**	ug/L	1.0	0.20	1		01/15/16 00:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 00:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 00:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 00:59	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 00:59	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 00:59	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 00:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 00:59	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 00:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 00:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 00:59	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 00:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 00:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 00:59	79-00-5	
Trichloroethene	**319**	ug/L	5.0	0.85	5		01/15/16 11:41	79-01-6	
Vinyl chloride	**0.66J**	ug/L	1.0	0.13	1		01/15/16 00:59	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 00:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/15/16 00:59	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/15/16 00:59	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/15/16 00:59	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 00:59		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: EB-04-201601 **Lab ID: 60211085034** Collected: 01/12/16 16:45 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 22:19	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 22:19	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 22:19	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 22:19	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 22:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 22:19	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 22:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 22:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 22:19	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 22:19	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 22:19	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/14/16 22:19	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 22:19	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 22:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 22:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 22:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 22:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 22:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 22:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 22:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 22:19	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 22:19	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 22:19	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 22:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 22:19	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 22:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 22:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 22:19	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 22:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 22:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 22:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 22:19	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 22:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 22:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/14/16 22:19	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/14/16 22:19	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		01/14/16 22:19	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 22:19		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: EB-03-201601 **Lab ID: 60211085035** Collected: 01/12/16 17:10 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/14/16 22:34	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/14/16 22:34	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/14/16 22:34	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/14/16 22:34	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/14/16 22:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/14/16 22:34	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/14/16 22:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/14/16 22:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/14/16 22:34	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/14/16 22:34	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/14/16 22:34	67-66-3	
Chloromethane	**0.20J**	ug/L	1.0	0.080	1		01/14/16 22:34	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/14/16 22:34	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/14/16 22:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/14/16 22:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 22:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/14/16 22:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/14/16 22:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/14/16 22:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/14/16 22:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/14/16 22:34	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/14/16 22:34	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/14/16 22:34	591-78-6	L3
Methylene chloride	ND	ug/L	1.0	0.15	1		01/14/16 22:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/14/16 22:34	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/14/16 22:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/14/16 22:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/14/16 22:34	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/14/16 22:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/14/16 22:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/14/16 22:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/14/16 22:34	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/14/16 22:34	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/14/16 22:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/14/16 22:34	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		01/14/16 22:34	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/14/16 22:34	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/14/16 22:34		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: TB-07-201601 **Lab ID: 60211085036** Collected: 01/12/16 08:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 09:59	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 09:59	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 09:59	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 09:59	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 09:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 09:59	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 09:59	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 09:59	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 09:59	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 09:59	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 09:59	67-66-3	
Chloromethane	**0.13J**	ug/L	1.0	0.080	1		01/15/16 09:59	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 09:59	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 09:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 09:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 09:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 09:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 09:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 09:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 09:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 09:59	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 09:59	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 09:59	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 09:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 09:59	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 09:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 09:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 09:59	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 09:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 09:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 09:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 09:59	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 09:59	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 09:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/15/16 09:59	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		01/15/16 09:59	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/15/16 09:59	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 09:59		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: TB-08-2016021 **Lab ID: 60211085037** Collected: 01/12/16 08:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 10:14	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 10:14	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 10:14	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 10:14	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 10:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 10:14	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 10:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 10:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 10:14	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 10:14	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 10:14	67-66-3	
Chloromethane	**0.15J**	ug/L	1.0	0.080	1		01/15/16 10:14	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 10:14	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 10:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 10:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 10:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 10:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 10:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 10:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 10:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 10:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 10:14	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 10:14	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 10:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 10:14	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 10:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 10:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 10:14	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 10:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 10:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 10:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 10:14	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 10:14	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 10:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	80-120		1		01/15/16 10:14	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/15/16 10:14	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/15/16 10:14	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 10:14		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: TB-09-2016021 **Lab ID: 60211085038** Collected: 01/12/16 08:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 10:28	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 10:28	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 10:28	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 10:28	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 10:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 10:28	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 10:28	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 10:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 10:28	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 10:28	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 10:28	67-66-3	
Chloromethane	**0.35J**	ug/L	1.0	0.080	1		01/15/16 10:28	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 10:28	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 10:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 10:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 10:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 10:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 10:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 10:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 10:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 10:28	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 10:28	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 10:28	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 10:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 10:28	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 10:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 10:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 10:28	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 10:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 10:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 10:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 10:28	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 10:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 10:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/15/16 10:28	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/15/16 10:28	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 10:28	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 10:28		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: TB-10-2016021 **Lab ID: 60211085039** Collected: 01/12/16 08:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 10:43	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 10:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 10:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 10:43	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 10:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 10:43	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 10:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 10:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 10:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 10:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 10:43	67-66-3	
Chloromethane	**0.28J**	ug/L	1.0	0.080	1		01/15/16 10:43	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 10:43	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 10:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 10:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 10:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 10:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 10:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 10:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 10:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 10:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 10:43	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 10:43	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 10:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 10:43	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 10:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 10:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 10:43	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 10:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 10:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 10:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 10:43	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 10:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 10:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/15/16 10:43	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		01/15/16 10:43	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/15/16 10:43	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 10:43		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: TB-11-2016021 **Lab ID: 60211085040** Collected: 01/12/16 08:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 10:57	67-64-1	L3
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 10:57	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 10:57	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 10:57	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 10:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 10:57	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 10:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 10:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 10:57	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 10:57	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 10:57	67-66-3	
Chloromethane	**0.23J**	ug/L	1.0	0.080	1		01/15/16 10:57	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 10:57	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 10:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 10:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 10:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 10:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 10:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 10:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 10:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 10:57	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 10:57	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 10:57	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 10:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 10:57	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 10:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 10:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 10:57	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 10:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 10:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 10:57	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 10:57	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 10:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 10:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/15/16 10:57	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/15/16 10:57	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 10:57	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 10:57		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: TB-12-2016021 **Lab ID: 60211085041** Collected: 01/12/16 08:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 15:49	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 15:49	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 15:49	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 15:49	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 15:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 15:49	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 15:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 15:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 15:49	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 15:49	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 15:49	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/15/16 15:49	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 15:49	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 15:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 15:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 15:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 15:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 15:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 15:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 15:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 15:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 15:49	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 15:49	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 15:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 15:49	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 15:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 15:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 15:49	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 15:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 15:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 15:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 15:49	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 15:49	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 15:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/15/16 15:49	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		01/15/16 15:49	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		01/15/16 15:49	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 15:49		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: TB-13-2016021 **Lab ID: 60211085042** Collected: 01/12/16 08:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 16:04	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 16:04	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 16:04	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 16:04	75-25-2	
Bromomethane	**1.6J**	ug/L	5.0	0.16	1		01/15/16 16:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 16:04	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 16:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 16:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 16:04	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 16:04	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 16:04	67-66-3	
Chloromethane	**0.32J**	ug/L	1.0	0.080	1		01/15/16 16:04	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 16:04	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 16:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 16:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 16:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 16:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 16:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 16:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 16:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 16:04	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 16:04	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 16:04	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 16:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 16:04	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 16:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 16:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 16:04	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 16:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 16:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 16:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 16:04	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 16:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 16:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		01/15/16 16:04	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/15/16 16:04	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/15/16 16:04	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 16:04		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211085

Sample: TB-14-2016021 **Lab ID: 60211085043** Collected: 01/12/16 08:00 Received: 01/13/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/15/16 16:18	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/15/16 16:18	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/15/16 16:18	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/15/16 16:18	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/15/16 16:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/15/16 16:18	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/15/16 16:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/15/16 16:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/15/16 16:18	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/15/16 16:18	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/15/16 16:18	67-66-3	
Chloromethane	**0.24J**	ug/L	1.0	0.080	1		01/15/16 16:18	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/15/16 16:18	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/15/16 16:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/15/16 16:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 16:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/15/16 16:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/15/16 16:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/15/16 16:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/15/16 16:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/15/16 16:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/15/16 16:18	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/15/16 16:18	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/15/16 16:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/15/16 16:18	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/15/16 16:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/15/16 16:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/15/16 16:18	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/15/16 16:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/15/16 16:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/15/16 16:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/15/16 16:18	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/15/16 16:18	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/15/16 16:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		01/15/16 16:18	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		01/15/16 16:18	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/15/16 16:18	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/15/16 16:18		

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: GCSV/4882 Analysis Method: EPA 8015 - Alcohol
QC Batch Method: EPA 8015 - Alcohol Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020

METHOD BLANK: 195446 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/15/16 10:09	

LABORATORY CONTROL SAMPLE: 195447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	95400	95	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195448 195449

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	105000	95300	105	95	40-140	10	40	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195450 195451

Parameter	Units	60211085012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	96400	99800	96	100	40-140	3	40	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: GCSV/4883 Analysis Method: EPA 8015 - Alcohol
QC Batch Method: EPA 8015 - Alcohol Analysis Description: Alcohol by Direct Inject GCFID
Associated Lab Samples: 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

METHOD BLANK: 195452 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chloroethanol	ug/L	ND	10000	1980	01/15/16 10:20	

LABORATORY CONTROL SAMPLE: 195453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloroethanol	ug/L	100000	101000	101	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195454 195455

Parameter	Units	60211085022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	110000	113000	110	113	40-140	3	40	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195456 195457

Parameter	Units	60211085026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	106000	114000	106	114	40-140	7	40	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195458 195459

Parameter	Units	60211085029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chloroethanol	ug/L	ND	100000	100000	115000	114000	115	114	40-140	1	40	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MPRP/34588 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018

METHOD BLANK: 1696910 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	51.7	50.0	9.0	01/21/16 12:06	
Manganese	ug/L	ND	5.0	2.4	01/21/16 12:06	

LABORATORY CONTROL SAMPLE: 1696911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9450	94	80-120	
Manganese	ug/L	1000	952	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696912 1696913

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	138			10200	10300				1	20	
Manganese	ug/L	116	1000	1000	1110	1110	99	100	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696914 1696915

Parameter	Units	60211085012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	399			10400	10400				0	20	
Manganese	ug/L	259	1000	1000	1280	1280	102	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MPRP/34589 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60211085019, 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

METHOD BLANK: 1696918 Matrix: Water
Associated Lab Samples: 60211085019, 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	9.0	01/21/16 12:15	
Manganese	ug/L	ND	5.0	2.4	01/21/16 12:15	

LABORATORY CONTROL SAMPLE: 1696919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9880	99	80-120	
Manganese	ug/L	1000	984	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696920 1696921

Parameter	Units	60211085022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	31.4J	10000	10000	9910	10000	99	100	75-125	1	20	
Manganese	ug/L	8.9	1000	1000	1000	1000	99	99	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696922 1696923

Parameter	Units	60211085026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	1840	10000	10000	11600	11800	97	100	75-125	2	20	
Manganese	ug/L	248	1000	1000	1200	1220	95	98	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696924 1696925

Parameter	Units	60211085029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	203	10000	10000	9950	10000	97	98	75-125	1	20	
Manganese	ug/L	30.0	1000	1000	1010	1010	98	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MPRP/34682 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60211085002, 60211085003, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085016, 60211085017

METHOD BLANK: 1700604 Matrix: Water
Associated Lab Samples: 60211085002, 60211085003, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085016, 60211085017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	9.0	01/22/16 12:19	

LABORATORY CONTROL SAMPLE: 1700605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9780	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1700606 1700607

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	138	10000	10000	9680	9930	95	98	75-125	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1700608 1700609

Parameter	Units	60211085012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	399	10000	10000	10000	10200	96	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MSV/73748 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085007, 60211085008, 60211085009

METHOD BLANK: 1696916 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085007, 60211085008, 60211085009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/14/16 09:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/14/16 09:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/14/16 09:29	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/14/16 09:29	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/14/16 09:29	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/14/16 09:29	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/14/16 09:29	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/14/16 09:29	
2-Hexanone	ug/L	ND	10.0	1.2	01/14/16 09:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/14/16 09:29	
Acetone	ug/L	ND	10.0	1.9	01/14/16 09:29	
Benzene	ug/L	ND	1.0	0.060	01/14/16 09:29	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/14/16 09:29	
Bromoform	ug/L	ND	1.0	0.070	01/14/16 09:29	
Bromomethane	ug/L	ND	5.0	0.16	01/14/16 09:29	
Carbon disulfide	ug/L	ND	5.0	0.12	01/14/16 09:29	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/14/16 09:29	
Chlorobenzene	ug/L	ND	1.0	0.21	01/14/16 09:29	
Chloroethane	ug/L	ND	1.0	0.15	01/14/16 09:29	
Chloroform	ug/L	ND	1.0	0.14	01/14/16 09:29	
Chloromethane	ug/L	0.29J	1.0	0.080	01/14/16 09:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/14/16 09:29	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/14/16 09:29	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/14/16 09:29	
Ethylbenzene	ug/L	ND	1.0	0.18	01/14/16 09:29	
Methylene chloride	ug/L	ND	1.0	0.15	01/14/16 09:29	
Styrene	ug/L	ND	1.0	0.12	01/14/16 09:29	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/14/16 09:29	
Toluene	ug/L	ND	1.0	0.17	01/14/16 09:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/14/16 09:29	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/14/16 09:29	
Trichloroethene	ug/L	ND	1.0	0.17	01/14/16 09:29	
Vinyl chloride	ug/L	ND	1.0	0.13	01/14/16 09:29	
Xylene (Total)	ug/L	ND	3.0	0.42	01/14/16 09:29	
1,2-Dichloroethane-d4 (S)	%	106	80-120		01/14/16 09:29	
4-Bromofluorobenzene (S)	%	98	80-120		01/14/16 09:29	
Toluene-d8 (S)	%	100	80-120		01/14/16 09:29	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

LABORATORY CONTROL SAMPLE: 1696917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.2	96	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	97	73-121	
1,1,2-Trichloroethane	ug/L	20	18.4	92	80-120	
1,1-Dichloroethane	ug/L	20	20.9	104	80-120	
1,1-Dichloroethene	ug/L	20	18.4	92	80-120	
1,2-Dichloroethane	ug/L	20	20.1	101	81-120	
1,2-Dichloropropane	ug/L	20	19.7	99	80-120	
2-Butanone (MEK)	ug/L	100	119	119	67-122	
2-Hexanone	ug/L	100	117	117	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	116	116	76-120	
Acetone	ug/L	100	127	127	72-120	L0
Benzene	ug/L	20	20.1	101	80-120	
Bromodichloromethane	ug/L	20	19.3	96	80-120	
Bromoform	ug/L	20	18.3	92	73-138	
Bromomethane	ug/L	20	20.4	102	38-137	
Carbon disulfide	ug/L	20	20.8	104	71-129	
Carbon tetrachloride	ug/L	20	18.5	93	67-146	
Chlorobenzene	ug/L	20	19.5	98	80-120	
Chloroethane	ug/L	20	21.9	110	76-120	
Chloroform	ug/L	20	18.2	91	80-120	
Chloromethane	ug/L	20	18.3	91	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.5	93	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	80-120	
Dibromochloromethane	ug/L	20	19.3	96	80-126	
Ethylbenzene	ug/L	20	20.8	104	80-120	
Methylene chloride	ug/L	20	20.2	101	80-120	
Styrene	ug/L	20	22.5	112	80-123	
Tetrachloroethene	ug/L	20	17.9	89	80-123	
Toluene	ug/L	20	19.7	98	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.1	91	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	80-129	
Trichloroethene	ug/L	20	18.1	90	80-120	
Vinyl chloride	ug/L	20	21.0	105	62-125	
Xylene (Total)	ug/L	60	65.1	108	80-120	
1,2-Dichloroethane-d4 (S)	%			107	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696926 1696927

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	20.4	20.8	102	104	88-124	2	9	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.2	19.3	111	97	78-116	14	13	R1
1,1,2-Trichloroethane	ug/L	ND	20	20	19.1	18.3	95	91	84-112	4	10	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696926 1696927

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/L	ND	20	20	20.6	22.0	103	110	82-121	7	9	
1,1-Dichloroethene	ug/L	ND	20	20	19.1	20.3	96	101	78-124	6	12	
1,2-Dichloroethane	ug/L	ND	20	20	19.5	21.1	98	106	79-121	8	12	
1,2-Dichloropropane	ug/L	ND	20	20	19.6	20.1	98	100	82-119	2	10	
2-Butanone (MEK)	ug/L	ND	100	100	103	109	103	109	66-114	5	13	
2-Hexanone	ug/L	ND	100	100	109	110	109	110	71-116	1	13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	108	114	108	114	72-122	6	12	
Acetone	ug/L	ND	100	100	103	107	103	107	65-113	4	27	
Benzene	ug/L	ND	20	20	21.0	20.9	105	105	46-155	0	13	
Bromodichloromethane	ug/L	ND	20	20	19.6	20.4	98	102	77-127	4	10	
Bromoform	ug/L	ND	20	20	18.9	18.7	95	94	70-125	1	11	
Bromomethane	ug/L	ND	20	20	22.4	25.0	112	125	41-140	11	30	
Carbon disulfide	ug/L	ND	20	20	20.6	22.9	103	114	68-140	10	10	
Carbon tetrachloride	ug/L	ND	20	20	20.2	20.8	101	104	68-147	3	11	
Chlorobenzene	ug/L	ND	20	20	19.7	20.3	99	101	83-121	3	9	
Chloroethane	ug/L	ND	20	20	19.5	21.3	97	107	69-126	9	19	
Chloroform	ug/L	0.15J	20	20	18.8	19.4	93	96	86-119	3	9	
Chloromethane	ug/L	0.19J	20	20	21.2	19.9	105	99	23-168	6	49	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.5	19.8	92	99	85-117	7	10	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.0	20.2	100	101	74-115	1	12	
Dibromochloromethane	ug/L	ND	20	20	20.7	19.6	103	98	65-134	5	11	
Ethylbenzene	ug/L	ND	20	20	20.4	21.6	102	108	51-148	6	14	
Methylene chloride	ug/L	ND	20	20	19.3	20.6	96	103	75-118	7	11	
Styrene	ug/L	ND	20	20	18.9	22.6	95	113	17-174	18	10	R1
Tetrachloroethene	ug/L	ND	20	20	20.1	18.4	101	92	78-127	9	9	
Toluene	ug/L	ND	20	20	21.0	20.0	105	100	47-149	4	16	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.8	19.6	94	98	84-119	4	12	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.4	20.8	107	104	71-120	3	10	
Trichloroethene	ug/L	0.26J	20	20	19.2	19.3	95	95	70-135	1	10	
Vinyl chloride	ug/L	ND	20	20	22.5	23.4	112	117	58-130	4	11	
Xylene (Total)	ug/L	ND	60	60	58.9	67.5	98	112	39-158	14	15	
1,2-Dichloroethane-d4 (S)	%						105	108	80-120			
4-Bromofluorobenzene (S)	%						105	102	80-120			
Toluene-d8 (S)	%						103	99	80-120			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MSV/73750 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085022, 60211085023

METHOD BLANK: 1697069 Matrix: Water
Associated Lab Samples: 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085022, 60211085023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/14/16 16:02	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/14/16 16:02	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/14/16 16:02	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/14/16 16:02	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/14/16 16:02	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/14/16 16:02	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/14/16 16:02	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/14/16 16:02	
2-Hexanone	ug/L	ND	10.0	1.2	01/14/16 16:02	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/14/16 16:02	
Acetone	ug/L	ND	10.0	1.9	01/14/16 16:02	
Benzene	ug/L	ND	1.0	0.060	01/14/16 16:02	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/14/16 16:02	
Bromoform	ug/L	ND	1.0	0.070	01/14/16 16:02	
Bromomethane	ug/L	ND	5.0	0.16	01/14/16 16:02	
Carbon disulfide	ug/L	ND	5.0	0.12	01/14/16 16:02	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/14/16 16:02	
Chlorobenzene	ug/L	ND	1.0	0.21	01/14/16 16:02	
Chloroethane	ug/L	ND	1.0	0.15	01/14/16 16:02	
Chloroform	ug/L	ND	1.0	0.14	01/14/16 16:02	
Chloromethane	ug/L	0.25J	1.0	0.080	01/14/16 16:02	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/14/16 16:02	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/14/16 16:02	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/14/16 16:02	
Ethylbenzene	ug/L	ND	1.0	0.18	01/14/16 16:02	
Methylene chloride	ug/L	ND	1.0	0.15	01/14/16 16:02	
Styrene	ug/L	ND	1.0	0.12	01/14/16 16:02	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/14/16 16:02	
Toluene	ug/L	ND	1.0	0.17	01/14/16 16:02	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/14/16 16:02	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/14/16 16:02	
Trichloroethene	ug/L	ND	1.0	0.17	01/14/16 16:02	
Vinyl chloride	ug/L	ND	1.0	0.13	01/14/16 16:02	
Xylene (Total)	ug/L	ND	3.0	0.42	01/14/16 16:02	
1,2-Dichloroethane-d4 (S)	%	108	80-120		01/14/16 16:02	
4-Bromofluorobenzene (S)	%	100	80-120		01/14/16 16:02	
Toluene-d8 (S)	%	101	80-120		01/14/16 16:02	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

LABORATORY CONTROL SAMPLE: 1697070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.6	98	73-121	
1,1,2-Trichloroethane	ug/L	20	19.2	96	80-120	
1,1-Dichloroethane	ug/L	20	20.2	101	80-120	
1,1-Dichloroethene	ug/L	20	18.1	91	80-120	
1,2-Dichloroethane	ug/L	20	19.8	99	81-120	
1,2-Dichloropropane	ug/L	20	19.3	97	80-120	
2-Butanone (MEK)	ug/L	100	108	108	67-122	
2-Hexanone	ug/L	100	114	114	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	112	112	76-120	
Acetone	ug/L	100	110	110	72-120	
Benzene	ug/L	20	20.4	102	80-120	
Bromodichloromethane	ug/L	20	19.4	97	80-120	
Bromoform	ug/L	20	18.9	94	73-138	
Bromomethane	ug/L	20	18.2	91	38-137	
Carbon disulfide	ug/L	20	19.6	98	71-129	
Carbon tetrachloride	ug/L	20	19.4	97	67-146	
Chlorobenzene	ug/L	20	20.0	100	80-120	
Chloroethane	ug/L	20	19.3	96	76-120	
Chloroform	ug/L	20	18.6	93	80-120	
Chloromethane	ug/L	20	20.8	104	34-165	
cis-1,2-Dichloroethene	ug/L	20	19.1	95	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	80-120	
Dibromochloromethane	ug/L	20	19.4	97	80-126	
Ethylbenzene	ug/L	20	20.2	101	80-120	
Methylene chloride	ug/L	20	19.1	95	80-120	
Styrene	ug/L	20	20.3	101	80-123	
Tetrachloroethene	ug/L	20	19.2	96	80-123	
Toluene	ug/L	20	20.6	103	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.3	91	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.7	103	80-129	
Trichloroethene	ug/L	20	19.4	97	80-120	
Vinyl chloride	ug/L	20	20.7	104	62-125	
Xylene (Total)	ug/L	60	60.0	100	80-120	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697071 1697072

Parameter	Units	60211085012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	19.6	20.9	98	104	88-124	6	9	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.4	20.6	92	103	78-116	12	13	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.7	19.0	89	95	84-112	7	10	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697071 1697072

Parameter	Units	60211085012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/L	5.2	20	20	26.1	26.7	104	108	82-121	3	9	
1,1-Dichloroethene	ug/L	0.60J	20	20	20.2	20.9	98	101	78-124	3	12	
1,2-Dichloroethane	ug/L	ND	20	20	19.8	20.5	99	102	79-121	3	12	
1,2-Dichloropropane	ug/L	ND	20	20	19.1	20.4	96	102	82-119	6	10	
2-Butanone (MEK)	ug/L	ND	100	100	96.1	104	96	104	66-114	8	13	
2-Hexanone	ug/L	ND	100	100	102	109	102	109	71-116	6	13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	105	113	105	113	72-122	7	12	
Acetone	ug/L	ND	100	100	98.2	102	98	102	65-113	4	27	
Benzene	ug/L	ND	20	20	20.1	21.3	101	106	46-155	6	13	
Bromodichloromethane	ug/L	ND	20	20	19.2	20.3	96	102	77-127	6	10	
Bromoform	ug/L	ND	20	20	17.0	18.5	85	93	70-125	9	11	
Bromomethane	ug/L	ND	20	20	18.1	19.4	90	97	41-140	7	30	
Carbon disulfide	ug/L	ND	20	20	20.5	20.8	103	104	68-140	1	10	
Carbon tetrachloride	ug/L	ND	20	20	19.4	20.7	97	104	68-147	6	11	
Chlorobenzene	ug/L	ND	20	20	19.7	20.7	98	104	83-121	5	9	
Chloroethane	ug/L	ND	20	20	19.2	19.0	96	95	69-126	1	19	
Chloroform	ug/L	ND	20	20	18.7	19.1	94	96	86-119	2	9	
Chloromethane	ug/L	ND	20	20	14.5	16.9	73	84	23-168	15	49	
cis-1,2-Dichloroethene	ug/L	6.2	20	20	25.3	25.6	95	97	85-117	1	10	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.9	19.9	94	100	74-115	5	12	
Dibromochloromethane	ug/L	ND	20	20	19.0	20.0	95	100	65-134	5	11	
Ethylbenzene	ug/L	ND	20	20	21.0	21.3	105	106	51-148	1	14	
Methylene chloride	ug/L	ND	20	20	19.7	20.5	99	103	75-118	4	11	
Styrene	ug/L	ND	20	20	0.68J	0.68J	3	3	17-174		10	M1
Tetrachloroethene	ug/L	ND	20	20	17.9	19.5	89	97	78-127	9	9	
Toluene	ug/L	ND	20	20	19.8	21.1	99	106	47-149	7	16	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.3	19.7	92	98	84-119	7	12	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.2	20.7	96	104	71-120	8	10	
Trichloroethene	ug/L	4.2	20	20	24.0	23.2	99	95	70-135	4	10	
Vinyl chloride	ug/L	0.32J	20	20	18.9	19.3	93	95	58-130	3	11	
Xylene (Total)	ug/L	ND	60	60	64.5	65.3	108	109	39-158	1	15	
1,2-Dichloroethane-d4 (S)	%						106	107	80-120			
4-Bromofluorobenzene (S)	%						99	100	80-120			
Toluene-d8 (S)	%						99	100	80-120			
Preservation pH		1.0			1.0	1.0				0		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697073 1697074

Parameter	Units	60211085022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	19.8	20.9	99	105	88-124	6	9	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.4	22.8	92	114	78-116	21	13	R1
1,1,2-Trichloroethane	ug/L	ND	20	20	17.9	20.2	89	101	84-112	12	10	R1

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697073 1697074

Parameter	Units	60211085022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/L	ND	20	20	20.7	22.0	104	110	82-121	6	9	
1,1-Dichloroethene	ug/L	ND	20	20	20.1	18.8	100	94	78-124	6	12	
1,2-Dichloroethane	ug/L	ND	20	20	19.6	20.4	98	102	79-121	4	12	
1,2-Dichloropropane	ug/L	ND	20	20	19.2	20.8	96	104	82-119	8	10	
2-Butanone (MEK)	ug/L	ND	100	100	98.2	104	98	104	66-114	6	13	
2-Hexanone	ug/L	ND	100	100	104	117	104	117	71-116	12	13	M1
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	106	110	106	110	72-122	5	12	
Acetone	ug/L	ND	100	100	97.9	104	98	104	65-113	6	27	
Benzene	ug/L	ND	20	20	20.3	22.0	101	110	46-155	8	13	
Bromodichloromethane	ug/L	ND	20	20	19.3	20.1	97	100	77-127	4	10	
Bromoform	ug/L	ND	20	20	17.5	19.5	88	97	70-125	10	11	
Bromomethane	ug/L	ND	20	20	19.4	19.2	97	96	41-140	1	30	
Carbon disulfide	ug/L	ND	20	20	20.3	20.3	101	101	68-140	0	10	
Carbon tetrachloride	ug/L	ND	20	20	19.4	21.2	97	106	68-147	9	11	
Chlorobenzene	ug/L	ND	20	20	19.4	21.6	97	108	83-121	10	9	R1
Chloroethane	ug/L	ND	20	20	18.2	18.9	91	94	69-126	4	19	
Chloroform	ug/L	ND	20	20	18.6	19.5	93	97	86-119	4	9	
Chloromethane	ug/L	0.088J	20	20	14.4	17.5	72	87	23-168	19	49	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.7	20.3	94	102	85-117	8	10	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.7	20.9	94	104	74-115	11	12	
Dibromochloromethane	ug/L	ND	20	20	18.6	21.2	93	106	65-134	13	11	R1
Ethylbenzene	ug/L	ND	20	20	20.9	21.6	104	108	51-148	4	14	
Methylene chloride	ug/L	ND	20	20	19.4	20.3	97	102	75-118	4	11	
Styrene	ug/L	ND	20	20	0.63J	0.60J	3	3	17-174		10	M1
Tetrachloroethene	ug/L	ND	20	20	18.3	21.4	91	107	78-127	16	9	R1
Toluene	ug/L	ND	20	20	20.0	22.5	100	112	47-149	12	16	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.1	19.7	91	98	84-119	8	12	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.2	22.5	96	113	71-120	16	10	R1
Trichloroethene	ug/L	ND	20	20	18.5	20.0	92	100	70-135	8	10	
Vinyl chloride	ug/L	ND	20	20	18.3	19.4	92	97	58-130	6	11	
Xylene (Total)	ug/L	ND	60	60	64.0	64.3	107	107	39-158	0	15	
1,2-Dichloroethane-d4 (S)	%						107	101	80-120			
4-Bromofluorobenzene (S)	%						101	101	80-120			
Toluene-d8 (S)	%						100	103	80-120			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MSV/73752 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029, 60211085030, 60211085031, 60211085032, 60211085033, 60211085034, 60211085035

METHOD BLANK: 1697129 Matrix: Water
Associated Lab Samples: 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029, 60211085030, 60211085031, 60211085032, 60211085033, 60211085034, 60211085035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/14/16 22:05	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/14/16 22:05	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/14/16 22:05	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/14/16 22:05	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/14/16 22:05	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/14/16 22:05	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/14/16 22:05	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/14/16 22:05	
2-Hexanone	ug/L	ND	10.0	1.2	01/14/16 22:05	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/14/16 22:05	
Acetone	ug/L	ND	10.0	1.9	01/14/16 22:05	
Benzene	ug/L	ND	1.0	0.060	01/14/16 22:05	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/14/16 22:05	
Bromoform	ug/L	ND	1.0	0.070	01/14/16 22:05	
Bromomethane	ug/L	ND	5.0	0.16	01/14/16 22:05	
Carbon disulfide	ug/L	ND	5.0	0.12	01/14/16 22:05	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/14/16 22:05	
Chlorobenzene	ug/L	ND	1.0	0.21	01/14/16 22:05	
Chloroethane	ug/L	ND	1.0	0.15	01/14/16 22:05	
Chloroform	ug/L	ND	1.0	0.14	01/14/16 22:05	
Chloromethane	ug/L	ND	1.0	0.080	01/14/16 22:05	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/14/16 22:05	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/14/16 22:05	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/14/16 22:05	
Ethylbenzene	ug/L	ND	1.0	0.18	01/14/16 22:05	
Methylene chloride	ug/L	ND	1.0	0.15	01/14/16 22:05	
Styrene	ug/L	ND	1.0	0.12	01/14/16 22:05	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/14/16 22:05	
Toluene	ug/L	ND	1.0	0.17	01/14/16 22:05	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/14/16 22:05	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/14/16 22:05	
Trichloroethene	ug/L	ND	1.0	0.17	01/14/16 22:05	
Vinyl chloride	ug/L	ND	1.0	0.13	01/14/16 22:05	
Xylene (Total)	ug/L	ND	3.0	0.42	01/14/16 22:05	
1,2-Dichloroethane-d4 (S)	%	105	80-120		01/14/16 22:05	
4-Bromofluorobenzene (S)	%	101	80-120		01/14/16 22:05	
Toluene-d8 (S)	%	101	80-120		01/14/16 22:05	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

LABORATORY CONTROL SAMPLE: 1697130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.3	97	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	21.4	107	73-121	
1,1,2-Trichloroethane	ug/L	20	18.9	95	80-120	
1,1-Dichloroethane	ug/L	20	20.8	104	80-120	
1,1-Dichloroethene	ug/L	20	18.1	91	80-120	
1,2-Dichloroethane	ug/L	20	20.1	100	81-120	
1,2-Dichloropropane	ug/L	20	19.9	99	80-120	
2-Butanone (MEK)	ug/L	100	110	110	67-122	
2-Hexanone	ug/L	100	122	122	75-121	L0
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	76-120	
Acetone	ug/L	100	122	122	72-120	L0
Benzene	ug/L	20	20.8	104	80-120	
Bromodichloromethane	ug/L	20	19.3	96	80-120	
Bromoform	ug/L	20	19.3	96	73-138	
Bromomethane	ug/L	20	20.1	100	38-137	
Carbon disulfide	ug/L	20	20.2	101	71-129	
Carbon tetrachloride	ug/L	20	19.3	96	67-146	
Chlorobenzene	ug/L	20	20.6	103	80-120	
Chloroethane	ug/L	20	20.6	103	76-120	
Chloroform	ug/L	20	18.2	91	80-120	
Chloromethane	ug/L	20	23.9	120	34-165	
cis-1,2-Dichloroethene	ug/L	20	19.1	96	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	80-120	
Dibromochloromethane	ug/L	20	20.5	102	80-126	
Ethylbenzene	ug/L	20	21.0	105	80-120	
Methylene chloride	ug/L	20	19.8	99	80-120	
Styrene	ug/L	20	21.0	105	80-123	
Tetrachloroethene	ug/L	20	19.8	99	80-123	
Toluene	ug/L	20	21.1	106	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.1	90	80-120	
trans-1,3-Dichloropropene	ug/L	20	21.9	110	80-129	
Trichloroethene	ug/L	20	18.5	92	80-120	
Vinyl chloride	ug/L	20	22.9	114	62-125	
Xylene (Total)	ug/L	60	61.1	102	80-120	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697131 1697132

Parameter	Units	60211085026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	19.8	20.4	99	102	88-124	3	9	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.9	19.2	115	96	78-116	18	13	R1
1,1,2-Trichloroethane	ug/L	ND	20	20	19.7	18.0	98	90	84-112	9	10	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697131 1697132

Parameter	Units	60211085026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/L	ND	20	20	21.5	21.6	107	108	82-121	1	9	
1,1-Dichloroethene	ug/L	ND	20	20	18.8	19.6	94	98	78-124	4	12	
1,2-Dichloroethane	ug/L	ND	20	20	20.0	20.2	100	101	79-121	1	12	
1,2-Dichloropropane	ug/L	ND	20	20	19.9	19.6	99	98	82-119	1	10	
2-Butanone (MEK)	ug/L	ND	100	100	105	103	105	103	66-114	2	13	
2-Hexanone	ug/L	ND	100	100	117	108	117	108	71-116	7	13	M0
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	114	111	114	111	72-122	3	12	
Acetone	ug/L	ND	100	100	105	106	105	106	65-113	1	27	
Benzene	ug/L	ND	20	20	21.3	21.1	106	106	46-155	1	13	
Bromodichloromethane	ug/L	ND	20	20	19.7	19.5	99	98	77-127	1	10	
Bromoform	ug/L	ND	20	20	18.7	18.3	94	92	70-125	2	11	
Bromomethane	ug/L	ND	20	20	18.4	19.8	92	99	41-140	7	30	
Carbon disulfide	ug/L	ND	20	20	19.7	21.3	99	106	68-140	7	10	
Carbon tetrachloride	ug/L	ND	20	20	20.3	20.2	102	101	68-147	0	11	
Chlorobenzene	ug/L	ND	20	20	20.7	20.4	103	102	83-121	1	9	
Chloroethane	ug/L	ND	20	20	19.3	19.2	96	96	69-126	0	19	
Chloroform	ug/L	ND	20	20	18.6	19.2	93	96	86-119	3	9	
Chloromethane	ug/L	0.10J	20	20	17.6	17.3	88	86	23-168	2	49	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.8	19.7	99	99	85-117	0	10	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.8	19.2	99	96	74-115	3	12	
Dibromochloromethane	ug/L	ND	20	20	20.7	19.4	103	97	65-134	6	11	
Ethylbenzene	ug/L	ND	20	20	21.3	21.5	106	107	51-148	1	14	
Methylene chloride	ug/L	ND	20	20	19.8	20.5	99	102	75-118	4	11	
Styrene	ug/L	ND	20	20	20.7	22.1	104	110	17-174	6	10	
Tetrachloroethene	ug/L	ND	20	20	20.5	19.2	103	96	78-127	7	9	
Toluene	ug/L	ND	20	20	21.6	20.6	108	103	47-149	5	16	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.8	19.5	94	97	84-119	4	12	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.5	20.0	108	100	71-120	7	10	
Trichloroethene	ug/L	0.25J	20	20	21.2	19.5	105	96	70-135	8	10	
Vinyl chloride	ug/L	ND	20	20	18.2	19.1	91	96	58-130	5	11	
Xylene (Total)	ug/L	ND	60	60	61.0	65.7	102	109	39-158	7	15	
1,2-Dichloroethane-d4 (S)	%						103	107	80-120			
4-Bromofluorobenzene (S)	%						108	102	80-120			
Toluene-d8 (S)	%						103	102	80-120			
Preservation pH		1.0			1.0	1.0				0		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697133 1697134

Parameter	Units	60211085029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	20.8	20.2	104	101	88-124	3	9	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.7	19.4	98	97	78-116	1	13	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.4	17.9	92	90	84-112	2	10	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697133 1697134

Parameter	Units	60211085029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/L	ND	20	20	21.6	21.1	108	106	82-121	2	9	
1,1-Dichloroethene	ug/L	ND	20	20	20.4	19.8	102	99	78-124	3	12	
1,2-Dichloroethane	ug/L	ND	20	20	21.3	19.7	106	98	79-121	8	12	
1,2-Dichloropropane	ug/L	ND	20	20	20.9	19.2	105	96	82-119	9	10	
2-Butanone (MEK)	ug/L	ND	100	100	109	99.4	109	99	66-114	10	13	
2-Hexanone	ug/L	ND	100	100	109	101	109	101	71-116	7	13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	116	106	116	106	72-122	9	12	
Acetone	ug/L	ND	100	100	109	96.0	109	96	65-113	13	27	
Benzene	ug/L	ND	20	20	21.5	20.4	107	102	46-155	5	13	
Bromodichloromethane	ug/L	ND	20	20	20.5	19.4	103	97	77-127	6	10	
Bromoform	ug/L	ND	20	20	19.2	17.8	96	89	70-125	7	11	
Bromomethane	ug/L	ND	20	20	22.0	18.6	110	93	41-140	17	30	
Carbon disulfide	ug/L	ND	20	20	22.1	20.8	110	104	68-140	6	10	
Carbon tetrachloride	ug/L	ND	20	20	20.6	19.9	103	100	68-147	4	11	
Chlorobenzene	ug/L	ND	20	20	20.5	19.8	102	99	83-121	3	9	
Chloroethane	ug/L	ND	20	20	19.8	18.4	99	92	69-126	7	19	
Chloroform	ug/L	ND	20	20	19.8	19.1	99	95	86-119	4	9	
Chloromethane	ug/L	0.27J	20	20	16.2	15.9	80	78	23-168	2	49	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	19.1	101	96	85-117	6	10	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.6	18.7	103	94	74-115	10	12	
Dibromochloromethane	ug/L	ND	20	20	19.1	19.0	95	95	65-134	1	11	
Ethylbenzene	ug/L	ND	20	20	21.6	21.5	108	107	51-148	1	14	
Methylene chloride	ug/L	ND	20	20	21.0	20.2	105	101	75-118	4	11	
Styrene	ug/L	ND	20	20	23.6	21.8	118	109	17-174	8	10	
Tetrachloroethene	ug/L	ND	20	20	18.6	19.0	93	95	78-127	2	9	
Toluene	ug/L	ND	20	20	20.5	20.9	103	104	47-149	2	16	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.1	19.2	101	96	84-119	5	12	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.0	19.4	100	97	71-120	3	10	
Trichloroethene	ug/L	ND	20	20	19.9	18.6	99	93	70-135	7	10	
Vinyl chloride	ug/L	ND	20	20	19.6	18.9	98	94	58-130	4	11	
Xylene (Total)	ug/L	ND	60	60	67.8	64.5	113	108	39-158	5	15	
1,2-Dichloroethane-d4 (S)	%						108	106	80-120			
4-Bromofluorobenzene (S)	%						98	105	80-120			
Toluene-d8 (S)	%						98	100	80-120			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MSV/73769 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211085006, 60211085020, 60211085033, 60211085036, 60211085037, 60211085038, 60211085039, 60211085040

METHOD BLANK: 1697620 Matrix: Water
Associated Lab Samples: 60211085006, 60211085020, 60211085033, 60211085036, 60211085037, 60211085038, 60211085039, 60211085040

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/15/16 09:45	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/15/16 09:45	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/15/16 09:45	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/15/16 09:45	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 09:45	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/15/16 09:45	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/15/16 09:45	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/15/16 09:45	
2-Hexanone	ug/L	ND	10.0	1.2	01/15/16 09:45	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/15/16 09:45	
Acetone	ug/L	ND	10.0	1.9	01/15/16 09:45	
Benzene	ug/L	ND	1.0	0.060	01/15/16 09:45	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/15/16 09:45	
Bromoform	ug/L	ND	1.0	0.070	01/15/16 09:45	
Bromomethane	ug/L	ND	5.0	0.16	01/15/16 09:45	
Carbon disulfide	ug/L	ND	5.0	0.12	01/15/16 09:45	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/15/16 09:45	
Chlorobenzene	ug/L	ND	1.0	0.21	01/15/16 09:45	
Chloroethane	ug/L	ND	1.0	0.15	01/15/16 09:45	
Chloroform	ug/L	ND	1.0	0.14	01/15/16 09:45	
Chloromethane	ug/L	0.37J	1.0	0.080	01/15/16 09:45	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/15/16 09:45	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/15/16 09:45	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/15/16 09:45	
Ethylbenzene	ug/L	ND	1.0	0.18	01/15/16 09:45	
Methylene chloride	ug/L	ND	1.0	0.15	01/15/16 09:45	
Styrene	ug/L	ND	1.0	0.12	01/15/16 09:45	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/15/16 09:45	
Toluene	ug/L	ND	1.0	0.17	01/15/16 09:45	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 09:45	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/15/16 09:45	
Trichloroethene	ug/L	ND	1.0	0.17	01/15/16 09:45	
Vinyl chloride	ug/L	ND	1.0	0.13	01/15/16 09:45	
Xylene (Total)	ug/L	ND	3.0	0.42	01/15/16 09:45	
1,2-Dichloroethane-d4 (S)	%	106	80-120		01/15/16 09:45	
4-Bromofluorobenzene (S)	%	101	80-120		01/15/16 09:45	
Toluene-d8 (S)	%	99	80-120		01/15/16 09:45	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

LABORATORY CONTROL SAMPLE: 1697621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.0	100	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	73-121	
1,1,2-Trichloroethane	ug/L	20	18.6	93	80-120	
1,1-Dichloroethane	ug/L	20	21.3	107	80-120	
1,1-Dichloroethene	ug/L	20	19.7	99	80-120	
1,2-Dichloroethane	ug/L	20	21.3	106	81-120	
1,2-Dichloropropane	ug/L	20	20.2	101	80-120	
2-Butanone (MEK)	ug/L	100	118	118	67-122	
2-Hexanone	ug/L	100	114	114	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	117	117	76-120	
Acetone	ug/L	100	128	128	72-120	L0
Benzene	ug/L	20	21.3	107	80-120	
Bromodichloromethane	ug/L	20	19.9	100	80-120	
Bromoform	ug/L	20	17.1	86	73-138	
Bromomethane	ug/L	20	24.4	122	38-137	
Carbon disulfide	ug/L	20	22.4	112	71-129	
Carbon tetrachloride	ug/L	20	19.2	96	67-146	
Chlorobenzene	ug/L	20	20.5	103	80-120	
Chloroethane	ug/L	20	21.7	109	76-120	
Chloroform	ug/L	20	19.5	98	80-120	
Chloromethane	ug/L	20	24.1	120	34-165	
cis-1,2-Dichloroethene	ug/L	20	20.3	101	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.7	104	80-120	
Dibromochloromethane	ug/L	20	18.9	94	80-126	
Ethylbenzene	ug/L	20	21.3	106	80-120	
Methylene chloride	ug/L	20	20.7	104	80-120	
Styrene	ug/L	20	23.2	116	80-123	
Tetrachloroethene	ug/L	20	18.6	93	80-123	
Toluene	ug/L	20	20.1	101	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.3	101	80-129	
Trichloroethene	ug/L	20	19.1	96	80-120	
Vinyl chloride	ug/L	20	24.2	121	62-125	
Xylene (Total)	ug/L	60	66.4	111	80-120	
1,2-Dichloroethane-d4 (S)	%			107	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			97	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MSV/73771 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211085041, 60211085042, 60211085043

METHOD BLANK: 1697708 Matrix: Water
Associated Lab Samples: 60211085041, 60211085042, 60211085043

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/15/16 15:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/15/16 15:34	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/15/16 15:34	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/15/16 15:34	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 15:34	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/15/16 15:34	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/15/16 15:34	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/15/16 15:34	
2-Hexanone	ug/L	ND	10.0	1.2	01/15/16 15:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/15/16 15:34	
Acetone	ug/L	ND	10.0	1.9	01/15/16 15:34	
Benzene	ug/L	ND	1.0	0.060	01/15/16 15:34	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/15/16 15:34	
Bromoform	ug/L	ND	1.0	0.070	01/15/16 15:34	
Bromomethane	ug/L	ND	5.0	0.16	01/15/16 15:34	
Carbon disulfide	ug/L	ND	5.0	0.12	01/15/16 15:34	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/15/16 15:34	
Chlorobenzene	ug/L	ND	1.0	0.21	01/15/16 15:34	
Chloroethane	ug/L	ND	1.0	0.15	01/15/16 15:34	
Chloroform	ug/L	ND	1.0	0.14	01/15/16 15:34	
Chloromethane	ug/L	ND	1.0	0.080	01/15/16 15:34	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/15/16 15:34	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/15/16 15:34	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/15/16 15:34	
Ethylbenzene	ug/L	ND	1.0	0.18	01/15/16 15:34	
Methylene chloride	ug/L	ND	1.0	0.15	01/15/16 15:34	
Styrene	ug/L	ND	1.0	0.12	01/15/16 15:34	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/15/16 15:34	
Toluene	ug/L	ND	1.0	0.17	01/15/16 15:34	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 15:34	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/15/16 15:34	
Trichloroethene	ug/L	ND	1.0	0.17	01/15/16 15:34	
Vinyl chloride	ug/L	ND	1.0	0.13	01/15/16 15:34	
Xylene (Total)	ug/L	ND	3.0	0.42	01/15/16 15:34	
1,2-Dichloroethane-d4 (S)	%	106	80-120		01/15/16 15:34	
4-Bromofluorobenzene (S)	%	102	80-120		01/15/16 15:34	
Toluene-d8 (S)	%	101	80-120		01/15/16 15:34	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

LABORATORY CONTROL SAMPLE: 1697709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.7	93	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	18.4	92	73-121	
1,1,2-Trichloroethane	ug/L	20	17.4	87	80-120	
1,1-Dichloroethane	ug/L	20	20.3	102	80-120	
1,1-Dichloroethene	ug/L	20	18.8	94	80-120	
1,2-Dichloroethane	ug/L	20	20.0	100	81-120	
1,2-Dichloropropane	ug/L	20	19.7	98	80-120	
2-Butanone (MEK)	ug/L	100	111	111	67-122	
2-Hexanone	ug/L	100	112	112	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	76-120	
Acetone	ug/L	100	120	120	72-120	
Benzene	ug/L	20	19.8	99	80-120	
Bromodichloromethane	ug/L	20	18.9	95	80-120	
Bromoform	ug/L	20	17.3	86	73-138	
Bromomethane	ug/L	20	23.7	118	38-137	
Carbon disulfide	ug/L	20	20.6	103	71-129	
Carbon tetrachloride	ug/L	20	18.2	91	67-146	
Chlorobenzene	ug/L	20	19.7	99	80-120	
Chloroethane	ug/L	20	19.8	99	76-120	
Chloroform	ug/L	20	18.4	92	80-120	
Chloromethane	ug/L	20	22.9	114	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.7	99	80-120	
Dibromochloromethane	ug/L	20	18.4	92	80-126	
Ethylbenzene	ug/L	20	19.9	99	80-120	
Methylene chloride	ug/L	20	20.4	102	80-120	
Styrene	ug/L	20	21.8	109	80-123	
Tetrachloroethene	ug/L	20	17.9	89	80-123	
Toluene	ug/L	20	19.2	96	80-120	
trans-1,2-Dichloroethene	ug/L	20	17.9	90	80-120	
trans-1,3-Dichloropropene	ug/L	20	19.7	98	80-129	
Trichloroethene	ug/L	20	18.0	90	80-120	
Vinyl chloride	ug/L	20	22.3	112	62-125	
Xylene (Total)	ug/L	60	63.6	106	80-120	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MSV/73749
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 7 day
Associated Lab Samples: 60211085015

METHOD BLANK: 1696932
Matrix: Water
Associated Lab Samples: 60211085015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/14/16 09:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/14/16 09:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/14/16 09:29	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/14/16 09:29	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/14/16 09:29	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/14/16 09:29	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/14/16 09:29	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/14/16 09:29	
2-Hexanone	ug/L	ND	10.0	1.2	01/14/16 09:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/14/16 09:29	
Benzene	ug/L	ND	1.0	0.060	01/14/16 09:29	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/14/16 09:29	
Bromoform	ug/L	ND	1.0	0.070	01/14/16 09:29	
Bromomethane	ug/L	ND	5.0	0.16	01/14/16 09:29	
Carbon disulfide	ug/L	ND	5.0	0.12	01/14/16 09:29	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/14/16 09:29	
Chlorobenzene	ug/L	ND	1.0	0.21	01/14/16 09:29	
Chloroethane	ug/L	ND	1.0	0.15	01/14/16 09:29	
Chloroform	ug/L	ND	1.0	0.14	01/14/16 09:29	
Chloromethane	ug/L	0.29J	1.0	0.080	01/14/16 09:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/14/16 09:29	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/14/16 09:29	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/14/16 09:29	
Ethylbenzene	ug/L	ND	1.0	0.18	01/14/16 09:29	
Methylene chloride	ug/L	ND	1.0	0.15	01/14/16 09:29	
Styrene	ug/L	ND	1.0	0.12	01/14/16 09:29	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/14/16 09:29	
Toluene	ug/L	ND	1.0	0.17	01/14/16 09:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/14/16 09:29	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/14/16 09:29	
Trichloroethene	ug/L	ND	1.0	0.17	01/14/16 09:29	
Vinyl chloride	ug/L	ND	1.0	0.13	01/14/16 09:29	
Xylene (Total)	ug/L	ND	3.0	0.42	01/14/16 09:29	
1,2-Dichloroethane-d4 (S)	%	106	80-120		01/14/16 09:29	
4-Bromofluorobenzene (S)	%	98	80-120		01/14/16 09:29	
Toluene-d8 (S)	%	100	80-120		01/14/16 09:29	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

LABORATORY CONTROL SAMPLE: 1696933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.2	96	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	97	73-121	
1,1,2-Trichloroethane	ug/L	20	18.4	92	80-120	
1,1-Dichloroethane	ug/L	20	20.9	104	80-120	
1,1-Dichloroethene	ug/L	20	18.4	92	80-120	
1,2-Dichloroethane	ug/L	20	20.1	101	81-120	
1,2-Dichloropropane	ug/L	20	19.7	99	80-120	
2-Butanone (MEK)	ug/L	100	119	119	67-122	
2-Hexanone	ug/L	100	117	117	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	116	116	76-120	
Benzene	ug/L	20	20.1	101	80-120	
Bromodichloromethane	ug/L	20	19.3	96	80-120	
Bromoform	ug/L	20	18.3	92	73-138	
Bromomethane	ug/L	20	20.4	102	38-137	
Carbon disulfide	ug/L	20	20.8	104	71-129	
Carbon tetrachloride	ug/L	20	18.5	93	67-146	
Chlorobenzene	ug/L	20	19.5	98	80-120	
Chloroethane	ug/L	20	21.9	110	76-120	
Chloroform	ug/L	20	18.2	91	80-120	
Chloromethane	ug/L	20	18.3	91	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.5	93	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	80-120	
Dibromochloromethane	ug/L	20	19.3	96	80-126	
Ethylbenzene	ug/L	20	20.8	104	80-120	
Methylene chloride	ug/L	20	20.2	101	80-120	
Styrene	ug/L	20	22.5	112	80-123	
Tetrachloroethene	ug/L	20	17.9	89	80-123	
Toluene	ug/L	20	19.7	98	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.1	91	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	80-129	
Trichloroethene	ug/L	20	18.1	90	80-120	
Vinyl chloride	ug/L	20	21.0	105	62-125	
Xylene (Total)	ug/L	60	65.1	108	80-120	
1,2-Dichloroethane-d4 (S)	%			107	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: MSV/73772
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 7 day
Associated Lab Samples: 60211085015

METHOD BLANK: 1697710 Matrix: Water
Associated Lab Samples: 60211085015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	10.0	1.9	01/15/16 15:34	
1,2-Dichloroethane-d4 (S)	%	106	80-120		01/15/16 15:34	
4-Bromofluorobenzene (S)	%	102	80-120		01/15/16 15:34	
Toluene-d8 (S)	%	101	80-120		01/15/16 15:34	

LABORATORY CONTROL SAMPLE: 1697711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	100	120	120	72-120	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WET/59679 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015

METHOD BLANK: 1700120 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/21/16 11:16	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/21/16 11:16	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/21/16 11:16	

LABORATORY CONTROL SAMPLE: 1700121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	504	101	90-110	

SAMPLE DUPLICATE: 1700122

Parameter	Units	60211085009 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	51.8	52.1	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	51.8	52.1	0	10	

SAMPLE DUPLICATE: 1700123

Parameter	Units	60211085012 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	126	126	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	126	126	0	10	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WET/59680 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028

METHOD BLANK: 1700124 Matrix: Water
Associated Lab Samples: 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/21/16 13:46	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/21/16 13:46	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/21/16 13:46	

LABORATORY CONTROL SAMPLE: 1700125

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	500	100	90-110	

SAMPLE DUPLICATE: 1700126

Parameter	Units	60211085022 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	51.9	53.9	4	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	51.9	53.9	4	10	

SAMPLE DUPLICATE: 1700127

Parameter	Units	60211085026 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	171	174	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	171	174	2	10	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WET/59694 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60211085029

METHOD BLANK: 1700730 Matrix: Water
Associated Lab Samples: 60211085029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	2.0	01/25/16 09:34	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	2.0	01/25/16 09:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	2.0	01/25/16 09:34	

LABORATORY CONTROL SAMPLE: 1700731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	479	96	90-110	

SAMPLE DUPLICATE: 1700732

Parameter	Units	60211085029 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	89.1	89.6	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	89.1	89.6	1	10	

SAMPLE DUPLICATE: 1700733

Parameter	Units	60211236006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	62.6	63.4	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	62.6	61.4	2	10	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WET/59624 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020

METHOD BLANK: 1698825 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/19/16 15:05	

LABORATORY CONTROL SAMPLE: 1698826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.49	98	80-120	

MATRIX SPIKE SAMPLE: 1698827

Parameter	Units	60211085001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.49	99	75-125	

SAMPLE DUPLICATE: 1698828

Parameter	Units	60211085009 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1698829

Parameter	Units	60211085012 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WET/59625 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

METHOD BLANK: 1698832 Matrix: Water
Associated Lab Samples: 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/19/16 15:10	

LABORATORY CONTROL SAMPLE: 1698833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.50	99	80-120	

MATRIX SPIKE SAMPLE: 1698834

Parameter	Units	60211085022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.50	100	75-125	

SAMPLE DUPLICATE: 1698835

Parameter	Units	60211085026 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1698836

Parameter	Units	60211085029 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WET/59666
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60211085008

METHOD BLANK: 1699703
Matrix: Water
Associated Lab Samples: 60211085008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	0.012	01/20/16 11:37	

LABORATORY CONTROL SAMPLE: 1699704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.52	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1699705 1699706

Parameter	Units	60211085008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	ND	.5	.5	0.57	0.56	114	113	75-125	1	20	H1

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37736 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085019, 60211085029

METHOD BLANK: 1697662 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085019, 60211085029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/17/16 11:55	
Sulfate	mg/L	ND	1.0	0.25	01/17/16 11:55	

METHOD BLANK: 1698567 Matrix: Water
Associated Lab Samples: 60211085009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/18/16 07:54	
Sulfate	mg/L	ND	1.0	0.25	01/18/16 07:54	

LABORATORY CONTROL SAMPLE: 1697663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	5.1	101	90-110	

LABORATORY CONTROL SAMPLE: 1698568

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	5	5.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697664 1697665

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	11.6	5	5	16.2	16.3	91	94	80-120	1	15	
Sulfate	mg/L	16.6	5	5	20.8	20.8	84	85	80-120	0	15	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

MATRIX SPIKE SAMPLE: 1697666

Parameter	Units	60211085012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	114	50	160	93	80-120	
Sulfate	mg/L	98.7	50	145	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1698565 1698566

Parameter	Units	60211085029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	16.9	10	10	26.0	26.0	91	92	80-120	0	15	
Sulfate	mg/L	36.2	10	10	44.3	44.7	81	85	80-120	1	15	

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37738 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028

METHOD BLANK: 1697924 Matrix: Water
Associated Lab Samples: 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/15/16 18:34	
Sulfate	mg/L	ND	1.0	0.25	01/15/16 18:34	

LABORATORY CONTROL SAMPLE: 1697925

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697926 1697927

Parameter	Units	60211085022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	98.7	25	25	120	120	85	86	80-120	0	15	
Sulfate	mg/L	18.0	10	10	27.0	26.9	91	89	80-120	1	15	

MATRIX SPIKE SAMPLE: 1697928

Parameter	Units	60211085026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	94.9	50	140	91	80-120	
Sulfate	mg/L	34.4	25	57.3	91	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37758
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60211085018

METHOD BLANK: 1698551 Matrix: Water
Associated Lab Samples: 60211085018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.50	01/18/16 07:54	
Sulfate	mg/L	ND	1.0	0.25	01/18/16 07:54	

LABORATORY CONTROL SAMPLE: 1698552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	5	5.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1698553 1698554

Parameter	Units	60211236021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	389	1000	1000	1340	1340	95	95	80-120	0	15	
Sulfate	mg/L	1580	1000	1000	2490	2480	91	90	80-120	0	15	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37769 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60211085001, 60211085002

METHOD BLANK: 1698762 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/19/16 09:45	

LABORATORY CONTROL SAMPLE: 1698763

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	107	90-110	

MATRIX SPIKE SAMPLE: 1698764

Parameter	Units	60211036001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	16.9	20	34.7	89	90-110	M1

MATRIX SPIKE SAMPLE: 1698765

Parameter	Units	60211037003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	7.3	10	17.1	99	90-110	

SAMPLE DUPLICATE: 1698766

Parameter	Units	60211048002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	ND		18	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37770 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085022

METHOD BLANK: 1698767 Matrix: Water
Associated Lab Samples: 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/19/16 11:25	

LABORATORY CONTROL SAMPLE: 1698768

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1698769

Parameter	Units	60211085009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.6	82	90-110	M1

MATRIX SPIKE SAMPLE: 1698770

Parameter	Units	60211085012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.2	59	90-110	M1

SAMPLE DUPLICATE: 1698771

Parameter	Units	60211085022 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37771 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

METHOD BLANK: 1698772 Matrix: Water
Associated Lab Samples: 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	0.046	01/19/16 11:58	

LABORATORY CONTROL SAMPLE: 1698773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	103	90-110	

MATRIX SPIKE SAMPLE: 1698774

Parameter	Units	60211085026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.2	59	90-110	M1

MATRIX SPIKE SAMPLE: 1698775

Parameter	Units	60211085029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.5	74	90-110	M1

SAMPLE DUPLICATE: 1698776

Parameter	Units	60211115002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	24.1	24.0	0	18	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37712 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018

METHOD BLANK: 1696521 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.014	01/13/16 14:26	
Nitrogen, Nitrite	mg/L	ND	0.10	0.023	01/13/16 14:26	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	0.014	01/13/16 14:26	

LABORATORY CONTROL SAMPLE: 1696522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	100	85-115	
Nitrogen, Nitrite	mg/L	.4	0.38	96	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.0	99	90-110	

MATRIX SPIKE SAMPLE: 1696523

Parameter	Units	60211080001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	29.9	16	40.9	69	85-115	M1
Nitrogen, Nitrite	mg/L	4.8	4	9.3	110	90-110	
Nitrogen, NO2 plus NO3	mg/L	34.7	20	50.2	77	90-110	M1

MATRIX SPIKE SAMPLE: 1696524

Parameter	Units	60211085009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.16	1.6	1.8	105	85-115	
Nitrogen, Nitrite	mg/L	ND	.4	0.41	103	90-110	
Nitrogen, NO2 plus NO3	mg/L	0.16	2	2.3	105	90-110	

SAMPLE DUPLICATE: 1696525

Parameter	Units	60211085012 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	22.6	22.7	1	20	
Nitrogen, Nitrite	mg/L	ND	ND		20	
Nitrogen, NO2 plus NO3	mg/L	22.6	22.7	1	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37713 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60211085019, 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

METHOD BLANK: 1696534 Matrix: Water
Associated Lab Samples: 60211085019, 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.014	01/13/16 14:51	
Nitrogen, Nitrite	mg/L	ND	0.10	0.023	01/13/16 14:51	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	0.014	01/13/16 14:51	

LABORATORY CONTROL SAMPLE: 1696535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	101	85-115	
Nitrogen, Nitrite	mg/L	.4	0.37	94	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.0	99	90-110	

MATRIX SPIKE SAMPLE: 1696536

Parameter	Units	60211085022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.69	1.6	2.3	100	85-115	
Nitrogen, Nitrite	mg/L	ND	.4	0.40	100	90-110	
Nitrogen, NO2 plus NO3	mg/L	0.69	2	2.7	100	90-110	

MATRIX SPIKE SAMPLE: 1696537

Parameter	Units	60211092002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	3.6	1.6	4.7	65	85-115	M1
Nitrogen, Nitrite	mg/L	ND	.4	0.52	118	90-110	M1
Nitrogen, NO2 plus NO3	mg/L	3.7	2	5.2	76	90-110	M1

SAMPLE DUPLICATE: 1696538

Parameter	Units	60211100002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	6.1	6.1	1	20	
Nitrogen, Nitrite	mg/L	0.25	0.25	1	20	
Nitrogen, NO2 plus NO3	mg/L	6.4	6.3	1	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37791 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005

METHOD BLANK: 1699297 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/20/16 13:31	

LABORATORY CONTROL SAMPLE: 1699298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.6	111	80-120	

MATRIX SPIKE SAMPLE: 1699299

Parameter	Units	60210969003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	0.55J	5	6.4	117	80-120	

SAMPLE DUPLICATE: 1699300

Parameter	Units	60210974001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37792 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085023, 60211085024, 60211085025, 60211085027

METHOD BLANK: 1699301 Matrix: Water
Associated Lab Samples: 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014, 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085023, 60211085024, 60211085025, 60211085027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/20/16 20:03	

LABORATORY CONTROL SAMPLE: 1699302

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.5	111	80-120	

MATRIX SPIKE SAMPLE: 1699303

Parameter	Units	60211085009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.0	5	7.9	118	80-120	

SAMPLE DUPLICATE: 1699304

Parameter	Units	60211085012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	0.52J	0.52J		25	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37818 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60211085022, 60211085028

METHOD BLANK: 1700498 Matrix: Water
Associated Lab Samples: 60211085022, 60211085028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/21/16 14:36	

LABORATORY CONTROL SAMPLE: 1700499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.0	100	80-120	

MATRIX SPIKE SAMPLE: 1700500

Parameter	Units	60211085022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	5	5.1	92	80-120	

SAMPLE DUPLICATE: 1700501

Parameter	Units	60211513008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	47.0	44.3	6	25	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/37819 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60211085026, 60211085029

METHOD BLANK: 1700577 Matrix: Water
Associated Lab Samples: 60211085026, 60211085029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	01/25/16 11:54	

LABORATORY CONTROL SAMPLE: 1700578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.1	101	80-120	

MATRIX SPIKE SAMPLE: 1700579

Parameter	Units	60211085026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	4.1	5	8.5	88	80-120	

SAMPLE DUPLICATE: 1700580

Parameter	Units	60211085029 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	0.65J	0.60J		25	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/10277 Analysis Method: SM 4500-P E
QC Batch Method: SM4500-P B Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014

METHOD BLANK: 196224 Matrix: Water
Associated Lab Samples: 60211085001, 60211085002, 60211085003, 60211085004, 60211085005, 60211085006, 60211085007, 60211085008, 60211085009, 60211085010, 60211085011, 60211085012, 60211085013, 60211085014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.018J	0.030	0.010	01/20/16 15:51	

LABORATORY CONTROL SAMPLE: 196225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.3	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196226 196227

Parameter	Units	60211085009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.080	1.5	1.5	1.4	1.4	88	85	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196228 196229

Parameter	Units	60211085012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.095	1.5	1.5	1.4	1.4	84	87	80-120	2	20	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211085

QC Batch: WETA/10298 Analysis Method: SM 4500-P E
QC Batch Method: SM4500-P B Analysis Description: SM4500P-E, Total Phosphorus
Associated Lab Samples: 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

METHOD BLANK: 196611 Matrix: Water
Associated Lab Samples: 60211085015, 60211085016, 60211085017, 60211085018, 60211085019, 60211085020, 60211085021, 60211085022, 60211085023, 60211085024, 60211085025, 60211085026, 60211085027, 60211085028, 60211085029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.030	0.010	01/21/16 15:14	

LABORATORY CONTROL SAMPLE: 196612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	1.5	1.4	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196613 196614

Parameter	Units	60211085022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.040	1.5	1.5	1.3	1.4	85	87	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196615 196616

Parameter	Units	60211085026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.11	1.5	1.5	1.5	1.3	90	80	80-120	10	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196617 196618

Parameter	Units	60211085029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.19	1.5	1.5	1.5	1.5	87	89	80-120	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: FORT SMITH AR
Pace Project No.: 60211085

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-D	Pace Analytical Services - Dallas
PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73749
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/73769
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/73771
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/73772
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: WET/59735
[1] Ferrous Fe performed in the field
Batch: WET/59736
[1] Ferrous Fe performed in the field
Batch: WET/59744
[1] Field pH
Batch: WET/59745
[1] Field pH

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QUALIFIERS

Project: FORT SMITH AR
Pace Project No.: 60211085

BATCH QUALIFIERS

Batch: WET/59750

[1]	Ferrous Fe perfromed in the field

ANALYTE QUALIFIERS

1e	Total Iron was confirmed.
B	Analyte was detected in the associated method blank.
H1	Analysis conducted outside the EPA method holding time.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P2	Re-extraction or re-analysis could not be performed due to insufficient sample amount.
R1	RPD value was outside control limits.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085001	MW-40R-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085002	IW-72-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085003	IW-74-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085004	IW-73-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085005	MW-41R-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085006	IW-76-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085007	MW-39R-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085008	MW-46R-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085009	MW-55R-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085010	MW-68-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085011	RW-69-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085012	ITMW-6-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085013	MW-27-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085014	MW-31R-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085015	MW-32R-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085016	MW-97-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085017	MW-183-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085018	MW-96-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085019	MW-89-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085020	MW-58R-201601	EPA 8015 - Alcohol	GCSV/4882		
60211085021	MW-88-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085022	ITMW-20-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085023	MW-63R-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085024	MW-22-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085025	ITMW-14-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085026	MW-90-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085027	ITMW-2-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085028	ITMW-4-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085029	MW-28-201601	EPA 8015 - Alcohol	GCSV/4883		
60211085001	MW-40R-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085002	IW-72-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085002	IW-72-201601	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085003	IW-74-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085003	IW-74-201601	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085004	IW-73-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085005	MW-41R-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085006	IW-76-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085007	MW-39R-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085008	MW-46R-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085008	MW-46R-201601	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085009	MW-55R-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085009	MW-55R-201601	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085010	MW-68-201601	EPA 3010	MPRP/34588	EPA 6010	ICP/25372

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085010	**MW-68-201601**	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085011	**RW-69-201601**	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085011	**RW-69-201601**	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085012	**ITMW-6-201601**	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085012	**ITMW-6-201601**	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085013	**MW-27-201601**	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085014	**MW-31R-201601**	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085015	**MW-32R-201601**	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085016	**MW-97-201601**	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085016	**MW-97-201601**	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085017	**MW-183-201601**	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085017	**MW-183-201601**	EPA 3010	MPRP/34682	EPA 6010	ICP/25426
60211085018	**MW-96-201601**	EPA 3010	MPRP/34588	EPA 6010	ICP/25372
60211085019	**MW-89-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085020	**MW-58R-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085021	**MW-88-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085022	**ITMW-20-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085023	**MW-63R-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085024	**MW-22-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085025	**ITMW-14-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085026	**MW-90-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085027	**ITMW-2-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085028	**ITMW-4-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085029	**MW-28-201601**	EPA 3010	MPRP/34589	EPA 6010	ICP/25373
60211085001	**MW-40R-201601**	EPA 5030B/8260	MSV/73748		
60211085002	**IW-72-201601**	EPA 5030B/8260	MSV/73748		
60211085003	**IW-74-201601**	EPA 5030B/8260	MSV/73748		
60211085004	**IW-73-201601**	EPA 5030B/8260	MSV/73748		
60211085005	**MW-41R-201601**	EPA 5030B/8260	MSV/73748		
60211085006	**IW-76-201601**	EPA 5030B/8260	MSV/73769		
60211085007	**MW-39R-201601**	EPA 5030B/8260	MSV/73748		
60211085008	**MW-46R-201601**	EPA 5030B/8260	MSV/73748		
60211085009	**MW-55R-201601**	EPA 5030B/8260	MSV/73748		
60211085010	**MW-68-201601**	EPA 5030B/8260	MSV/73750		
60211085011	**RW-69-201601**	EPA 5030B/8260	MSV/73750		
60211085012	**ITMW-6-201601**	EPA 5030B/8260	MSV/73750		
60211085013	**MW-27-201601**	EPA 5030B/8260	MSV/73750		
60211085014	**MW-31R-201601**	EPA 5030B/8260	MSV/73750		
60211085016	**MW-97-201601**	EPA 5030B/8260	MSV/73750		
60211085017	**MW-183-201601**	EPA 5030B/8260	MSV/73750		
60211085018	**MW-96-201601**	EPA 5030B/8260	MSV/73750		
60211085019	**MW-89-201601**	EPA 5030B/8260	MSV/73750		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085020	MW-58R-201601	EPA 5030B/8260	MSV/73750		
60211085020	MW-58R-201601	EPA 5030B/8260	MSV/73769		
60211085021	MW-88-201601	EPA 5030B/8260	MSV/73750		
60211085022	ITMW-20-201601	EPA 5030B/8260	MSV/73750		
60211085023	MW-63R-201601	EPA 5030B/8260	MSV/73750		
60211085024	MW-22-201601	EPA 5030B/8260	MSV/73752		
60211085025	ITMW-14-201601	EPA 5030B/8260	MSV/73752		
60211085026	MW-90-201601	EPA 5030B/8260	MSV/73752		
60211085027	ITMW-2-201601	EPA 5030B/8260	MSV/73752		
60211085028	ITMW-4-201601	EPA 5030B/8260	MSV/73752		
60211085029	MW-28-201601	EPA 5030B/8260	MSV/73752		
60211085030	DUP-07-201601	EPA 5030B/8260	MSV/73752		
60211085031	DUP-06-201601	EPA 5030B/8260	MSV/73752		
60211085032	DUP-05-201601	EPA 5030B/8260	MSV/73752		
60211085033	DUP-10-201601	EPA 5030B/8260	MSV/73752		
60211085033	DUP-10-201601	EPA 5030B/8260	MSV/73769		
60211085034	EB-04-201601	EPA 5030B/8260	MSV/73752		
60211085035	EB-03-201601	EPA 5030B/8260	MSV/73752		
60211085036	TB-07-201601	EPA 5030B/8260	MSV/73769		
60211085037	TB-08-2016021	EPA 5030B/8260	MSV/73769		
60211085038	TB-09-2016021	EPA 5030B/8260	MSV/73769		
60211085039	TB-10-2016021	EPA 5030B/8260	MSV/73769		
60211085040	TB-11-2016021	EPA 5030B/8260	MSV/73769		
60211085041	TB-12-2016021	EPA 5030B/8260	MSV/73771		
60211085042	TB-13-2016021	EPA 5030B/8260	MSV/73771		
60211085043	TB-14-2016021	EPA 5030B/8260	MSV/73771		
60211085015	MW-32R-201601	EPA 5030B/8260	MSV/73749		
60211085015	MW-32R-201601	EPA 5030B/8260	MSV/73772		
60211085001	MW-40R-201601	SM 2320B	WET/59679		
60211085002	IW-72-201601	SM 2320B	WET/59679		
60211085003	IW-74-201601	SM 2320B	WET/59679		
60211085004	IW-73-201601	SM 2320B	WET/59679		
60211085005	MW-41R-201601	SM 2320B	WET/59679		
60211085006	IW-76-201601	SM 2320B	WET/59679		
60211085007	MW-39R-201601	SM 2320B	WET/59679		
60211085008	MW-46R-201601	SM 2320B	WET/59679		
60211085009	MW-55R-201601	SM 2320B	WET/59679		
60211085010	MW-68-201601	SM 2320B	WET/59679		
60211085011	RW-69-201601	SM 2320B	WET/59679		
60211085012	ITMW-6-201601	SM 2320B	WET/59679		
60211085013	MW-27-201601	SM 2320B	WET/59679		
60211085014	MW-31R-201601	SM 2320B	WET/59679		
60211085015	MW-32R-201601	SM 2320B	WET/59679		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085016	MW-97-201601	SM 2320B	WET/59680		
60211085017	MW-183-201601	SM 2320B	WET/59680		
60211085018	MW-96-201601	SM 2320B	WET/59680		
60211085019	MW-89-201601	SM 2320B	WET/59680		
60211085020	MW-58R-201601	SM 2320B	WET/59680		
60211085021	MW-88-201601	SM 2320B	WET/59680		
60211085022	ITMW-20-201601	SM 2320B	WET/59680		
60211085023	MW-63R-201601	SM 2320B	WET/59680		
60211085024	MW-22-201601	SM 2320B	WET/59680		
60211085025	ITMW-14-201601	SM 2320B	WET/59680		
60211085026	MW-90-201601	SM 2320B	WET/59680		
60211085027	ITMW-2-201601	SM 2320B	WET/59680		
60211085028	ITMW-4-201601	SM 2320B	WET/59680		
60211085029	MW-28-201601	SM 2320B	WET/59694		
60211085001	MW-40R-201601	SM 3500-Fe B#4	WET/59735		
60211085002	IW-72-201601	SM 3500-Fe B#4	WET/59735		
60211085003	IW-74-201601	SM 3500-Fe B#4	WET/59735		
60211085004	IW-73-201601	SM 3500-Fe B#4	WET/59735		
60211085005	MW-41R-201601	SM 3500-Fe B#4	WET/59735		
60211085006	IW-76-201601	SM 3500-Fe B#4	WET/59735		
60211085007	MW-39R-201601	SM 3500-Fe B#4	WET/59750		
60211085008	MW-46R-201601	SM 3500-Fe B#4	WET/59735		
60211085009	MW-55R-201601	SM 3500-Fe B#4	WET/59735		
60211085010	MW-68-201601	SM 3500-Fe B#4	WET/59735		
60211085011	RW-69-201601	SM 3500-Fe B#4	WET/59735		
60211085012	ITMW-6-201601	SM 3500-Fe B#4	WET/59735		
60211085013	MW-27-201601	SM 3500-Fe B#4	WET/59735		
60211085014	MW-31R-201601	SM 3500-Fe B#4	WET/59735		
60211085015	MW-32R-201601	SM 3500-Fe B#4	WET/59735		
60211085016	MW-97-201601	SM 3500-Fe B#4	WET/59735		
60211085017	MW-183-201601	SM 3500-Fe B#4	WET/59735		
60211085018	MW-96-201601	SM 3500-Fe B#4	WET/59735		
60211085019	MW-89-201601	SM 3500-Fe B#4	WET/59735		
60211085020	MW-58R-201601	SM 3500-Fe B#4	WET/59735		
60211085021	MW-88-201601	SM 3500-Fe B#4	WET/59736		
60211085022	ITMW-20-201601	SM 3500-Fe B#4	WET/59736		
60211085023	MW-63R-201601	SM 3500-Fe B#4	WET/59736		
60211085024	MW-22-201601	SM 3500-Fe B#4	WET/59750		
60211085025	ITMW-14-201601	SM 3500-Fe B#4	WET/59736		
60211085026	MW-90-201601	SM 3500-Fe B#4	WET/59736		
60211085027	ITMW-2-201601	SM 3500-Fe B#4	WET/59736		
60211085028	ITMW-4-201601	SM 3500-Fe B#4	WET/59736		
60211085029	MW-28-201601	SM 3500-Fe B#4	WET/59736		
60211085001	MW-40R-201601	SM 4500-H+B	WET/59744		
60211085002	IW-72-201601	SM 4500-H+B	WET/59744		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085003	IW-74-201601	SM 4500-H+B	WET/59744		
60211085004	IW-73-201601	SM 4500-H+B	WET/59744		
60211085005	MW-41R-201601	SM 4500-H+B	WET/59744		
60211085006	IW-76-201601	SM 4500-H+B	WET/59745		
60211085007	MW-39R-201601	SM 4500-H+B	WET/59744		
60211085008	MW-46R-201601	SM 4500-H+B	WET/59745		
60211085009	MW-55R-201601	SM 4500-H+B	WET/59744		
60211085010	MW-68-201601	SM 4500-H+B	WET/59744		
60211085011	RW-69-201601	SM 4500-H+B	WET/59744		
60211085012	ITMW-6-201601	SM 4500-H+B	WET/59745		
60211085013	MW-27-201601	SM 4500-H+B	WET/59744		
60211085014	MW-31R-201601	SM 4500-H+B	WET/59744		
60211085015	MW-32R-201601	SM 4500-H+B	WET/59745		
60211085016	MW-97-201601	SM 4500-H+B	WET/59744		
60211085017	MW-183-201601	SM 4500-H+B	WET/59744		
60211085018	MW-96-201601	SM 4500-H+B	WET/59744		
60211085019	MW-89-201601	SM 4500-H+B	WET/59745		
60211085020	MW-58R-201601	SM 4500-H+B	WET/59744		
60211085021	MW-88-201601	SM 4500-H+B	WET/59744		
60211085022	ITMW-20-201601	SM 4500-H+B	WET/59745		
60211085023	MW-63R-201601	SM 4500-H+B	WET/59744		
60211085024	MW-22-201601	SM 4500-H+B	WET/59745		
60211085025	ITMW-14-201601	SM 4500-H+B	WET/59745		
60211085026	MW-90-201601	SM 4500-H+B	WET/59744		
60211085027	ITMW-2-201601	SM 4500-H+B	WET/59745		
60211085028	ITMW-4-201601	SM 4500-H+B	WET/59744		
60211085029	MW-28-201601	SM 4500-H+B	WET/59744		
60211085001	MW-40R-201601	SM 4500-S-2 D	WET/59624		
60211085002	IW-72-201601	SM 4500-S-2 D	WET/59624		
60211085003	IW-74-201601	SM 4500-S-2 D	WET/59624		
60211085004	IW-73-201601	SM 4500-S-2 D	WET/59624		
60211085005	MW-41R-201601	SM 4500-S-2 D	WET/59624		
60211085006	IW-76-201601	SM 4500-S-2 D	WET/59624		
60211085007	MW-39R-201601	SM 4500-S-2 D	WET/59624		
60211085008	MW-46R-201601	SM 4500-S-2 D	WET/59666		
60211085009	MW-55R-201601	SM 4500-S-2 D	WET/59624		
60211085010	MW-68-201601	SM 4500-S-2 D	WET/59624		
60211085011	RW-69-201601	SM 4500-S-2 D	WET/59624		
60211085012	ITMW-6-201601	SM 4500-S-2 D	WET/59624		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085013	MW-27-201601	SM 4500-S-2 D	WET/59624		
60211085014	MW-31R-201601	SM 4500-S-2 D	WET/59624		
60211085015	MW-32R-201601	SM 4500-S-2 D	WET/59624		
60211085016	MW-97-201601	SM 4500-S-2 D	WET/59624		
60211085017	MW-183-201601	SM 4500-S-2 D	WET/59624		
60211085018	MW-96-201601	SM 4500-S-2 D	WET/59624		
60211085019	MW-89-201601	SM 4500-S-2 D	WET/59624		
60211085020	MW-58R-201601	SM 4500-S-2 D	WET/59624		
60211085021	MW-88-201601	SM 4500-S-2 D	WET/59625		
60211085022	ITMW-20-201601	SM 4500-S-2 D	WET/59625		
60211085023	MW-63R-201601	SM 4500-S-2 D	WET/59625		
60211085024	MW-22-201601	SM 4500-S-2 D	WET/59625		
60211085025	ITMW-14-201601	SM 4500-S-2 D	WET/59625		
60211085026	MW-90-201601	SM 4500-S-2 D	WET/59625		
60211085027	ITMW-2-201601	SM 4500-S-2 D	WET/59625		
60211085028	ITMW-4-201601	SM 4500-S-2 D	WET/59625		
60211085029	MW-28-201601	SM 4500-S-2 D	WET/59625		
60211085001	MW-40R-201601	EPA 300.0	WETA/37736		
60211085002	IW-72-201601	EPA 300.0	WETA/37736		
60211085003	IW-74-201601	EPA 300.0	WETA/37736		
60211085004	IW-73-201601	EPA 300.0	WETA/37736		
60211085005	MW-41R-201601	EPA 300.0	WETA/37736		
60211085006	IW-76-201601	EPA 300.0	WETA/37736		
60211085007	MW-39R-201601	EPA 300.0	WETA/37736		
60211085008	MW-46R-201601	EPA 300.0	WETA/37736		
60211085009	MW-55R-201601	EPA 300.0	WETA/37736		
60211085010	MW-68-201601	EPA 300.0	WETA/37736		
60211085011	RW-69-201601	EPA 300.0	WETA/37736		
60211085012	ITMW-6-201601	EPA 300.0	WETA/37736		
60211085013	MW-27-201601	EPA 300.0	WETA/37736		
60211085014	MW-31R-201601	EPA 300.0	WETA/37736		
60211085015	MW-32R-201601	EPA 300.0	WETA/37736		
60211085016	MW-97-201601	EPA 300.0	WETA/37736		
60211085017	MW-183-201601	EPA 300.0	WETA/37736		
60211085018	MW-96-201601	EPA 300.0	WETA/37758		
60211085019	MW-89-201601	EPA 300.0	WETA/37736		
60211085020	MW-58R-201601	EPA 300.0	WETA/37738		
60211085021	MW-88-201601	EPA 300.0	WETA/37738		
60211085022	ITMW-20-201601	EPA 300.0	WETA/37738		
60211085023	MW-63R-201601	EPA 300.0	WETA/37738		
60211085024	MW-22-201601	EPA 300.0	WETA/37738		
60211085025	ITMW-14-201601	EPA 300.0	WETA/37738		
60211085026	MW-90-201601	EPA 300.0	WETA/37738		
60211085027	ITMW-2-201601	EPA 300.0	WETA/37738		
60211085028	ITMW-4-201601	EPA 300.0	WETA/37738		
60211085029	MW-28-201601	EPA 300.0	WETA/37736		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085001	MW-40R-201601	EPA 350.1	WETA/37769		
60211085002	IW-72-201601	EPA 350.1	WETA/37769		
60211085003	IW-74-201601	EPA 350.1	WETA/37770		
60211085004	IW-73-201601	EPA 350.1	WETA/37770		
60211085005	MW-41R-201601	EPA 350.1	WETA/37770		
60211085006	IW-76-201601	EPA 350.1	WETA/37770		
60211085007	MW-39R-201601	EPA 350.1	WETA/37770		
60211085008	MW-46R-201601	EPA 350.1	WETA/37770		
60211085009	MW-55R-201601	EPA 350.1	WETA/37770		
60211085010	MW-68-201601	EPA 350.1	WETA/37770		
60211085011	RW-69-201601	EPA 350.1	WETA/37770		
60211085012	ITMW-6-201601	EPA 350.1	WETA/37770		
60211085013	MW-27-201601	EPA 350.1	WETA/37770		
60211085014	MW-31R-201601	EPA 350.1	WETA/37770		
60211085015	MW-32R-201601	EPA 350.1	WETA/37770		
60211085016	MW-97-201601	EPA 350.1	WETA/37770		
60211085017	MW-183-201601	EPA 350.1	WETA/37770		
60211085018	MW-96-201601	EPA 350.1	WETA/37770		
60211085019	MW-89-201601	EPA 350.1	WETA/37770		
60211085020	MW-58R-201601	EPA 350.1	WETA/37770		
60211085021	MW-88-201601	EPA 350.1	WETA/37770		
60211085022	ITMW-20-201601	EPA 350.1	WETA/37770		
60211085023	MW-63R-201601	EPA 350.1	WETA/37771		
60211085024	MW-22-201601	EPA 350.1	WETA/37771		
60211085025	ITMW-14-201601	EPA 350.1	WETA/37771		
60211085026	MW-90-201601	EPA 350.1	WETA/37771		
60211085027	ITMW-2-201601	EPA 350.1	WETA/37771		
60211085028	ITMW-4-201601	EPA 350.1	WETA/37771		
60211085029	MW-28-201601	EPA 350.1	WETA/37771		
60211085001	MW-40R-201601	EPA 353.2	WETA/37712		
60211085002	IW-72-201601	EPA 353.2	WETA/37712		
60211085003	IW-74-201601	EPA 353.2	WETA/37712		
60211085004	IW-73-201601	EPA 353.2	WETA/37712		
60211085005	MW-41R-201601	EPA 353.2	WETA/37712		
60211085006	IW-76-201601	EPA 353.2	WETA/37712		
60211085007	MW-39R-201601	EPA 353.2	WETA/37712		
60211085008	MW-46R-201601	EPA 353.2	WETA/37712		
60211085009	MW-55R-201601	EPA 353.2	WETA/37712		
60211085010	MW-68-201601	EPA 353.2	WETA/37712		
60211085011	RW-69-201601	EPA 353.2	WETA/37712		
60211085012	ITMW-6-201601	EPA 353.2	WETA/37712		
60211085013	MW-27-201601	EPA 353.2	WETA/37712		
60211085014	MW-31R-201601	EPA 353.2	WETA/37712		
60211085015	MW-32R-201601	EPA 353.2	WETA/37712		
60211085016	MW-97-201601	EPA 353.2	WETA/37712		
60211085017	MW-183-201601	EPA 353.2	WETA/37712		
60211085018	MW-96-201601	EPA 353.2	WETA/37712		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085019	MW-89-201601	EPA 353.2	WETA/37713		
60211085020	MW-58R-201601	EPA 353.2	WETA/37713		
60211085021	MW-88-201601	EPA 353.2	WETA/37713		
60211085022	ITMW-20-201601	EPA 353.2	WETA/37713		
60211085023	MW-63R-201601	EPA 353.2	WETA/37713		
60211085024	MW-22-201601	EPA 353.2	WETA/37713		
60211085025	ITMW-14-201601	EPA 353.2	WETA/37713		
60211085026	MW-90-201601	EPA 353.2	WETA/37713		
60211085027	ITMW-2-201601	EPA 353.2	WETA/37713		
60211085028	ITMW-4-201601	EPA 353.2	WETA/37713		
60211085029	MW-28-201601	EPA 353.2	WETA/37713		
60211085001	MW-40R-201601	SM 4500-CO2 D	WETA/37868		
60211085002	IW-72-201601	SM 4500-CO2 D	WETA/37868		
60211085003	IW-74-201601	SM 4500-CO2 D	WETA/37868		
60211085004	IW-73-201601	SM 4500-CO2 D	WETA/37868		
60211085005	MW-41R-201601	SM 4500-CO2 D	WETA/37868		
60211085006	IW-76-201601	SM 4500-CO2 D	WETA/37868		
60211085007	MW-39R-201601	SM 4500-CO2 D	WETA/37868		
60211085008	MW-46R-201601	SM 4500-CO2 D	WETA/37868		
60211085009	MW-55R-201601	SM 4500-CO2 D	WETA/37868		
60211085010	MW-68-201601	SM 4500-CO2 D	WETA/37868		
60211085011	RW-69-201601	SM 4500-CO2 D	WETA/37868		
60211085012	ITMW-6-201601	SM 4500-CO2 D	WETA/37868		
60211085013	MW-27-201601	SM 4500-CO2 D	WETA/37868		
60211085014	MW-31R-201601	SM 4500-CO2 D	WETA/37868		
60211085015	MW-32R-201601	SM 4500-CO2 D	WETA/37868		
60211085016	MW-97-201601	SM 4500-CO2 D	WETA/37868		
60211085017	MW-183-201601	SM 4500-CO2 D	WETA/37868		
60211085018	MW-96-201601	SM 4500-CO2 D	WETA/37868		
60211085019	MW-89-201601	SM 4500-CO2 D	WETA/37868		
60211085020	MW-58R-201601	SM 4500-CO2 D	WETA/37868		
60211085021	MW-88-201601	SM 4500-CO2 D	WETA/37869		
60211085022	ITMW-20-201601	SM 4500-CO2 D	WETA/37869		
60211085023	MW-63R-201601	SM 4500-CO2 D	WETA/37869		
60211085024	MW-22-201601	SM 4500-CO2 D	WETA/37869		
60211085025	ITMW-14-201601	SM 4500-CO2 D	WETA/37869		
60211085026	MW-90-201601	SM 4500-CO2 D	WETA/37869		
60211085027	ITMW-2-201601	SM 4500-CO2 D	WETA/37869		
60211085028	ITMW-4-201601	SM 4500-CO2 D	WETA/37869		
60211085029	MW-28-201601	SM 4500-CO2 D	WETA/37869		
60211085001	MW-40R-201601	SM 5310C	WETA/37791		
60211085002	IW-72-201601	SM 5310C	WETA/37791		
60211085003	IW-74-201601	SM 5310C	WETA/37791		
60211085004	IW-73-201601	SM 5310C	WETA/37791		
60211085005	MW-41R-201601	SM 5310C	WETA/37791		
60211085006	IW-76-201601	SM 5310C	WETA/37792		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085007	MW-39R-201601	SM 5310C	WETA/37792		
60211085008	MW-46R-201601	SM 5310C	WETA/37792		
60211085009	MW-55R-201601	SM 5310C	WETA/37792		
60211085010	MW-68-201601	SM 5310C	WETA/37792		
60211085011	RW-69-201601	SM 5310C	WETA/37792		
60211085012	ITMW-6-201601	SM 5310C	WETA/37792		
60211085013	MW-27-201601	SM 5310C	WETA/37792		
60211085014	MW-31R-201601	SM 5310C	WETA/37792		
60211085015	MW-32R-201601	SM 5310C	WETA/37792		
60211085016	MW-97-201601	SM 5310C	WETA/37792		
60211085017	MW-183-201601	SM 5310C	WETA/37792		
60211085018	MW-96-201601	SM 5310C	WETA/37792		
60211085019	MW-89-201601	SM 5310C	WETA/37792		
60211085020	MW-58R-201601	SM 5310C	WETA/37792		
60211085021	MW-88-201601	SM 5310C	WETA/37792		
60211085022	ITMW-20-201601	SM 5310C	WETA/37818		
60211085023	MW-63R-201601	SM 5310C	WETA/37792		
60211085024	MW-22-201601	SM 5310C	WETA/37792		
60211085025	ITMW-14-201601	SM 5310C	WETA/37792		
60211085026	MW-90-201601	SM 5310C	WETA/37819		
60211085027	ITMW-2-201601	SM 5310C	WETA/37792		
60211085028	ITMW-4-201601	SM 5310C	WETA/37818		
60211085029	MW-28-201601	SM 5310C	WETA/37819		
60211085001	MW-40R-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085002	IW-72-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085003	IW-74-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085004	IW-73-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085005	MW-41R-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085006	IW-76-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085007	MW-39R-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085008	MW-46R-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085009	MW-55R-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085010	MW-68-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085011	RW-69-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085012	ITMW-6-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085013	MW-27-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085014	MW-31R-201601	SM4500-P B	WETA/10277	SM 4500-P E	WETA/10287
60211085015	MW-32R-201601	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085016	MW-97-201601	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085017	MW-183-201601	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085018	MW-96-201601	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085019	MW-89-201601	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085020	MW-58R-201601	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085021	MW-88-201601	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085022	ITMW-20-201601	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211085023	**MW-63R-201601**	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085024	**MW-22-201601**	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085025	**ITMW-14-201601**	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085026	**MW-90-201601**	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085027	**ITMW-2-201601**	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085028	**ITMW-4-201601**	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301
60211085029	**MW-28-201601**	SM4500-P B	WETA/10298	SM 4500-P E	WETA/10301

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Sample Condition Upon Receipt

WO# : 60211085

60211085

Trackling#: 6262 7065 3643, 3660, 3709, 3671, 3682, 3714

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☒ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: 6113 5281 6695, 6700 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☒ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 5.1 4.6 3.6 4.9 4.1 4.0 2.6 6.0

Date and initials of person examining contents: JB

Temperature should be above freezing to 6°C

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 holding time:	☒Yes ☐No ☐N/A	5.	
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6.	NO_3/NH_4 pH
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.	Extra Container received for IW-74-201601 for Microbial Insights
Pace containers used:	☒Yes ☐No ☐N/A		
Containers intact:	☒Yes ☐No ☐N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.	
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.	
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☒Yes ☐No ☐N/A	13.	
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	14.	
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A		
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☒Yes ☐No	Initial when completed	Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): Cancel	☒Yes ☐No ☐N/A	15.	
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.	
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:	
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☒N/A	18.	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution: * Per Wendy - forward Microbial Insights Container to correct lab. CBL 01/13/16.

Project Manager Review: CBL Date: 01/13/16

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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 4

Section A — Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	

Section B — Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C — Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D — Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-40R-201601	WT	G	1/12/16	0935				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	001
2	IW-72-201601	WT	G	1/12/16	0930				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	002
3	IW-74-201601	WT	G	1/12/16	1055				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	003
4	IW-73-201601	WT	G	1/12/16	1410				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	004
5	MW-41R-201601	WT	G	1/12/16	1120				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	005
6	IW-76-201601	WT	G	1/12/16	1600				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	006
7	MW-39R-201601	WT	G	1/12/16	1315				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	007
8	MW-46R-201601	WT	G	1/12/16	1556				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	008
9	MW-55R-201601	WT	G	1/12/16	0855				14	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	MS/MSD 009
10	MW-68-201601	WT	G	1/12/16	1112				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	010
11	RW-69-201601	WT	G	1/12/16	1330				11	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	011
12	TMW-6-201601	WT	G	1/12/16	1645				14	X	X	X	X				X	N	X	X	X	X	X	X	X	X	X	X	N	MS/MSD 012

Pace Project No./ Lab I.D.: 60211085

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Level IV data package required	Wendy Stonestreet	1/12/16	1900		1/13	0855

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM/DD/YY): 1/12/16

*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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Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

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 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
10 1	DUP-07-201601	WT	G	4/12/16	1120				3				X						X										N	(3) DG9H 020
11 2	DUP-06-201601	WT	G	4/12/16	935				3				X						X										N	021
11 3	DUP-05-201601	WT	G	4/12/16	1055				3				X						X										N	022
12 4	MW-27-201601 BP3U BP3H AG3S BP3S BP3N	WT	G	4/12/16	0920	BP3Z			11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	013 (3) DG9H
12 5	MW-31R-201601	WT	G	4/12/16	1510				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	014
12 6	MW-32R-201601	WT	G	4/12/16	1715				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	7 day hold time (3) DG9H
12 7	MW-97-201601	WT	G	4/12/16	1300				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	(3) DG9H 016
13 8	MW-183-201601	WT	G	4/12/16	903				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	017
13 9	MW-96-201601	WT	G	4/12/16	1105				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	018
13 10	MW-89-201601	WT	G	4/12/16	1720				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	019
13 11	DUP-10-201601 BP3U	WT	G	4/12/16	1015				3				X						X										N	023
13 12	MW-58R-201601 BP3U AG3S BP3S BP3N	WT	G	4/12/16	1015	BP3Z			11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	020

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Wendy Stonestreet	1/12/16	1900		1/13	0955	3.6	Y	Y	Y
							4.9	Y	Y	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Wendy Stonestreet				
SIGNATURE of SAMPLER:	Wendy Stonestreet	DATE Signed (MM/DD/YY): 1/12/16			

*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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	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	343750600

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	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 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-88-201601 BP3U AG3S BP3S BP3N	WT	G	1/12/16	1335	BP3U			11	X	X	X	X				X		X	X	X	X		X	X	X	X	X	N	(3)DG4H (3)DG4H 021
2	EB-04-201601	WT	G	1/12/16	1645				3	X	X	X	X						X										N	041
3	EB-03-201601	WT	G	1/12/16	1710				3				X						X										N	035
4	ITMW-20-201601	WT	G	1/12/16	1535				14	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N	MS/MSD (6)DG4H 022
5	TB-07-201601	WT	G	1/12/16	—				2				X						X										N	(2)DG4H 036
6	MW-63R-201601	WT	G	1/12/16	0910				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N	(3)DG4H 023
7	TB-08-201601	WT	G	1/12/16	—				2				X						X										N	(2)DG4H 037
8	TB-09-201601	WT	G	1/12/16	—				2				X						X										N	038
9	MW-22-201601	WT	G	1/12/16	1525				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N	(3)DG4H 024
10	ITMW-14-201601	WT	G	1/12/16	1335				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N	025
11	MW-90-201601	WT	G	1/12/16	1115				14	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N	MS/MSD (6)DG4H 026
12	ITMW-2-201601	WT	G	1/12/16	1520				11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	N	(3)DG4H 027

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Wendy Stonestreet / RE	1/12/16	1900		1/13	0855	411	Y	Y	Y
							410	Y	Y	Y

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Wendy Stonestreet					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 1/12/16				

*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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Requested Due Date/TAT:	

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Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

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

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WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
14 1	TMW-4-201601 BP3N AG3S DP3S BP3N	WT	G	1/12/16	1325	BP3Z			11	X	X	X	X				X		X	X	X	X	X	X	X	X	X	N	(3) DG4H (3) BP4N	028
14 2	MW-28-201601 ↓ ↓ ↓ ↓	WT	G	1/12/16	1150	↓			14	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	N	(6) DG4H	029
3	TB-10-201601	WT	G	1/12/16	—				2				X				X		X										N	(2) DG4H	039
4	TB-11-201601	WT	G	1/12/16	—				2				X				X		X										N		040
5	TB-12-201601	WT	G	1/12/16	—				2				X				X		X										N		041
6	TB-13-201601	WT	G	1/12/16	—				2				X				X		X										N		042
7	TB-14-201601	WT	G	1/12/16	—				2				X				X		X										N		043
8																													N		
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Wendy Stonestreet	1/12/16	1900		1/13	0855	2.6	y	y	y
							6.0	y	y	y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM/DD/YY): 1/12/16

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

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 26, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH AR
Pace Project No.: 60211266

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 14, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH AR
Pace Project No.: 60211266

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: FORT SMITH AR
Pace Project No.: 60211266

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60211266001	**MW-174-201601**	Water	01/12/16 10:00	01/14/16 14:00
60211266002	**MW-173-201601**	Water	01/12/16 11:10	01/14/16 14:00
60211266003	**VP-06-201601**	Water	01/12/16 11:30	01/14/16 14:00
60211266004	**VP-05-201601**	Water	01/12/16 11:45	01/14/16 14:00

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211266

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60211266001	**MW-174-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211266002	**MW-173-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211266003	**VP-06-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211266004	**VP-05-201601**	EPA 5030B/8260	PGH	38	PASI-K

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Lenexa, KS 66219
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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211266

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 26, 2016

General Information:
4 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/73774

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1697881)
  - Acetone

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73774

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73785

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211266

Sample: MW-174-201601 **Lab ID: 60211266001** Collected: 01/12/16 10:00 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/16/16 01:01	67-64-1	L3
Benzene	**0.13J**	ug/L	1.0	0.060	1		01/16/16 01:01	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 01:01	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 01:01	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/16/16 01:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/16/16 01:01	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/16/16 01:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 01:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 01:01	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/16/16 01:01	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/16/16 01:01	67-66-3	
Chloromethane	**0.16J**	ug/L	1.0	0.080	1		01/16/16 01:01	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 01:01	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/16/16 01:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 01:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 01:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/16/16 01:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 01:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 01:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 01:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 01:01	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 01:01	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/16/16 01:01	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/16/16 01:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/16/16 01:01	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 01:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 01:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/16/16 01:01	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/16/16 01:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 01:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 01:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/16/16 01:01	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/16/16 01:01	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 01:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/16/16 01:01	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/16/16 01:01	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		01/16/16 01:01	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 01:01		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211266

Sample: MW-173-201601 **Lab ID: 60211266002** Collected: 01/12/16 11:10 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**81.4**	ug/L	10.0	1.9	1		01/19/16 14:50	67-64-1	
Benzene	**0.89J**	ug/L	1.0	0.060	1		01/16/16 01:16	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 01:16	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 01:16	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/16/16 01:16	74-83-9	
2-Butanone (MEK)	**21.2**	ug/L	10.0	0.59	1		01/16/16 01:16	78-93-3	
Carbon disulfide	**2.0J**	ug/L	5.0	0.12	1		01/16/16 01:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 01:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 01:16	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/16/16 01:16	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/16/16 01:16	67-66-3	
Chloromethane	**0.63J**	ug/L	1.0	0.080	1		01/16/16 01:16	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 01:16	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/16/16 01:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 01:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 01:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/16/16 01:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 01:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 01:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 01:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 01:16	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 01:16	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/16/16 01:16	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/16/16 01:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.99J**	ug/L	10.0	0.42	1		01/16/16 01:16	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 01:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 01:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/16/16 01:16	127-18-4	
Toluene	**0.27J**	ug/L	1.0	0.17	1		01/16/16 01:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 01:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 01:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/16/16 01:16	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/16/16 01:16	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 01:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/16/16 01:16	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		01/16/16 01:16	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		01/16/16 01:16	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 01:16		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211266

Sample: VP-06-201601 **Lab ID: 60211266003** Collected: 01/12/16 11:30 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**49.0**	ug/L	10.0	1.9	1		01/19/16 15:05	67-64-1	
Benzene	**0.72J**	ug/L	1.0	0.060	1		01/16/16 01:30	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 01:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 01:30	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/16/16 01:30	74-83-9	
2-Butanone (MEK)	**6.2J**	ug/L	10.0	0.59	1		01/16/16 01:30	78-93-3	
Carbon disulfide	**0.75J**	ug/L	5.0	0.12	1		01/16/16 01:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 01:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 01:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/16/16 01:30	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/16/16 01:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/16/16 01:30	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 01:30	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/16/16 01:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 01:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 01:30	75-35-4	
cis-1,2-Dichloroethene	**0.20J**	ug/L	1.0	0.080	1		01/16/16 01:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 01:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 01:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 01:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 01:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 01:30	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/16/16 01:30	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/16/16 01:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.53J**	ug/L	10.0	0.42	1		01/16/16 01:30	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 01:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 01:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/16/16 01:30	127-18-4	
Toluene	**0.23J**	ug/L	1.0	0.17	1		01/16/16 01:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 01:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 01:30	79-00-5	
Trichloroethene	**1.3**	ug/L	1.0	0.17	1		01/16/16 01:30	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/16/16 01:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 01:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		01/16/16 01:30	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		01/16/16 01:30	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		01/16/16 01:30	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 01:30		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211266

Sample: VP-05-201601 **Lab ID: 60211266004** Collected: 01/12/16 11:45 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**158**	ug/L	10.0	1.9	1		01/19/16 15:20	67-64-1	
Benzene	**0.90J**	ug/L	1.0	0.060	1		01/16/16 01:45	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 01:45	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 01:45	75-25-2	
Bromomethane	**4.9J**	ug/L	5.0	0.16	1		01/16/16 01:45	74-83-9	
2-Butanone (MEK)	**31.4**	ug/L	10.0	0.59	1		01/16/16 01:45	78-93-3	
Carbon disulfide	**0.22J**	ug/L	5.0	0.12	1		01/16/16 01:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 01:45	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 01:45	108-90-7	
Chloroethane	**2.7**	ug/L	1.0	0.15	1		01/16/16 01:45	75-00-3	
Chloroform	**0.35J**	ug/L	1.0	0.14	1		01/16/16 01:45	67-66-3	
Chloromethane	**2.8**	ug/L	1.0	0.080	1		01/16/16 01:45	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 01:45	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/16/16 01:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 01:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 01:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		01/16/16 01:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/16/16 01:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 01:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 01:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 01:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 01:45	100-41-4	
2-Hexanone	**11.6**	ug/L	10.0	1.2	1		01/16/16 01:45	591-78-6	
Methylene chloride	**0.76J**	ug/L	1.0	0.15	1		01/16/16 01:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3.4J**	ug/L	10.0	0.42	1		01/16/16 01:45	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 01:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 01:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/16/16 01:45	127-18-4	
Toluene	**0.46J**	ug/L	1.0	0.17	1		01/16/16 01:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 01:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 01:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		01/16/16 01:45	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/16/16 01:45	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 01:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/16/16 01:45	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		01/16/16 01:45	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		01/16/16 01:45	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 01:45		

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211266

QC Batch: MSV/73774 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211266001, 60211266002, 60211266003, 60211266004

METHOD BLANK: 1697880 Matrix: Water
Associated Lab Samples: 60211266001, 60211266002, 60211266003, 60211266004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/15/16 22:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/15/16 22:22	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/15/16 22:22	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/15/16 22:22	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 22:22	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/15/16 22:22	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/15/16 22:22	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/15/16 22:22	
2-Hexanone	ug/L	ND	10.0	1.2	01/15/16 22:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/15/16 22:22	
Acetone	ug/L	ND	10.0	1.9	01/15/16 22:22	
Benzene	ug/L	ND	1.0	0.060	01/15/16 22:22	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/15/16 22:22	
Bromoform	ug/L	ND	1.0	0.070	01/15/16 22:22	
Bromomethane	ug/L	ND	5.0	0.16	01/15/16 22:22	
Carbon disulfide	ug/L	ND	5.0	0.12	01/15/16 22:22	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/15/16 22:22	
Chlorobenzene	ug/L	ND	1.0	0.21	01/15/16 22:22	
Chloroethane	ug/L	ND	1.0	0.15	01/15/16 22:22	
Chloroform	ug/L	ND	1.0	0.14	01/15/16 22:22	
Chloromethane	ug/L	ND	1.0	0.080	01/15/16 22:22	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/15/16 22:22	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/15/16 22:22	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/15/16 22:22	
Ethylbenzene	ug/L	ND	1.0	0.18	01/15/16 22:22	
Methylene chloride	ug/L	ND	1.0	0.15	01/15/16 22:22	
Styrene	ug/L	ND	1.0	0.12	01/15/16 22:22	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/15/16 22:22	
Toluene	ug/L	ND	1.0	0.17	01/15/16 22:22	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 22:22	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/15/16 22:22	
Trichloroethene	ug/L	ND	1.0	0.17	01/15/16 22:22	
Vinyl chloride	ug/L	ND	1.0	0.13	01/15/16 22:22	
Xylene (Total)	ug/L	ND	3.0	0.42	01/15/16 22:22	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/15/16 22:22	
4-Bromofluorobenzene (S)	%	102	80-120		01/15/16 22:22	
Toluene-d8 (S)	%	100	80-120		01/15/16 22:22	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211266

LABORATORY CONTROL SAMPLE: 1697881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.0	95	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	18.7	93	73-121	
1,1,2-Trichloroethane	ug/L	20	18.0	90	80-120	
1,1-Dichloroethane	ug/L	20	20.7	104	80-120	
1,1-Dichloroethene	ug/L	20	16.7	83	80-120	
1,2-Dichloroethane	ug/L	20	20.1	101	81-120	
1,2-Dichloropropane	ug/L	20	19.3	97	80-120	
2-Butanone (MEK)	ug/L	100	115	115	67-122	
2-Hexanone	ug/L	100	107	107	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	76-120	
Acetone	ug/L	100	128	128	72-120	L0
Benzene	ug/L	20	20.4	102	80-120	
Bromodichloromethane	ug/L	20	19.0	95	80-120	
Bromoform	ug/L	20	17.1	85	73-138	
Bromomethane	ug/L	20	27.2	136	38-137	
Carbon disulfide	ug/L	20	19.2	96	71-129	
Carbon tetrachloride	ug/L	20	18.5	93	67-146	
Chlorobenzene	ug/L	20	19.6	98	80-120	
Chloroethane	ug/L	20	19.8	99	76-120	
Chloroform	ug/L	20	18.0	90	80-120	
Chloromethane	ug/L	20	24.1	121	34-165	
cis-1,2-Dichloroethene	ug/L	20	19.1	96	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.1	100	80-120	
Dibromochloromethane	ug/L	20	18.3	92	80-126	
Ethylbenzene	ug/L	20	20.5	102	80-120	
Methylene chloride	ug/L	20	18.7	94	80-120	
Styrene	ug/L	20	21.4	107	80-123	
Tetrachloroethene	ug/L	20	17.8	89	80-123	
Toluene	ug/L	20	20.3	101	80-120	
trans-1,2-Dichloroethene	ug/L	20	16.6	83	80-120	
trans-1,3-Dichloropropene	ug/L	20	19.4	97	80-129	
Trichloroethene	ug/L	20	18.6	93	80-120	
Vinyl chloride	ug/L	20	22.4	112	62-125	
Xylene (Total)	ug/L	60	62.3	104	80-120	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			98	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211266

QC Batch: MSV/73785 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211266002, 60211266003, 60211266004

METHOD BLANK: 1698841 Matrix: Water
Associated Lab Samples: 60211266002, 60211266003, 60211266004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	10.0	1.9	01/19/16 12:11	
1,2-Dichloroethane-d4 (S)	%	101	81-127		01/19/16 12:11	
4-Bromofluorobenzene (S)	%	99	77-130		01/19/16 12:11	
Toluene-d8 (S)	%	98	80-120		01/19/16 12:11	

LABORATORY CONTROL SAMPLE: 1698842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	100	119	119	56-142	
1,2-Dichloroethane-d4 (S)	%			101	81-127	
4-Bromofluorobenzene (S)	%			99	77-130	
Toluene-d8 (S)	%			101	80-120	

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QUALIFIERS

Project: FORT SMITH AR
Pace Project No.: 60211266

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73774

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/73785

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211266

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211266001	**MW-174-201601**	EPA 5030B/8260	MSV/73774		
60211266002	**MW-173-201601**	EPA 5030B/8260	MSV/73774		
60211266002	**MW-173-201601**	EPA 5030B/8260	MSV/73785		
60211266003	**VP-06-201601**	EPA 5030B/8260	MSV/73774		
60211266003	**VP-06-201601**	EPA 5030B/8260	MSV/73785		
60211266004	**VP-05-201601**	EPA 5030B/8260	MSV/73774		
60211266004	**VP-05-201601**	EPA 5030B/8260	MSV/73785		

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Sample Condition Upon Receipt

WO# : 60211266

60211266

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☒ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☒ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 1.8

Date and initials of person examining contents: JB 1/14

Temperature should be above freezing to 6°C

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 holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<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	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC:	☒Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☒Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	~~☐Yes~~ JB 1/14 ☒No ☐N/A	
Pace Trip Blank lot # (if purchased): _____		15.
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☒N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: G Date: 1/15/14

F-KS-C-003-Rev.9, 30June2015

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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 1

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tamara Gleason
	tgleason@environcorp.com
Purchase Order No.:	
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tamara Gleason
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJ Walls
Pace Profile #:	7444 water, 7709 soil

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): 8260 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-174-201601	WT	G	1/12/16	1000				3				X					Y	X	N	(3) 60211266 a1
2	MW-173-201601	WT	G	1/12/16	1110				3				X					Y	X	N	a2
3	VP-06-201601	WT	G	1/12/16	1130				3				X					Y	X	N	a3
4	VP-05-201601	WT	G	1/12/16	1145				3				X					Y	X	N	a4
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)
	Wendy Stonestreet	1/13/16	1815		1/14	1400	1.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*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-Feb-2007

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

January 26, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH AR
Pace Project No.: 60211267

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 14, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH AR
Pace Project No.: 60211267

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

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SAMPLE SUMMARY

Project: FORT SMITH AR
Pace Project No.: 60211267

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60211267001	**MW-176-201601**	Water	01/12/16 13:35	01/14/16 14:00
60211267002	**VP-10-201601**	Water	01/12/16 13:51	01/14/16 14:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211267

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60211267001	**MW-176-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211267002	**VP-10-201601**	EPA 5030B/8260	PGH	38	PASI-K

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211267

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 26, 2016

General Information:
2 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: MSV/73785

B: Analyte was detected in the associated method blank.
- BLANK for HBN 416091 [MSV/7378 (Lab ID: 1698841)
  - Carbon disulfide

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/73774

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 1697881)
  - Acetone

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73774

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73785

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/73827

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211267

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 26, 2016

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211267

Sample: MW-176-201601 **Lab ID: 60211267001** Collected: 01/12/16 13:35 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/16/16 03:12	67-64-1	L3
Benzene	**0.11J**	ug/L	1.0	0.060	1		01/16/16 03:12	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/16/16 03:12	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/16/16 03:12	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/16/16 03:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/16/16 03:12	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/16/16 03:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/16/16 03:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/16/16 03:12	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/16/16 03:12	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/16/16 03:12	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/16/16 03:12	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/16/16 03:12	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/16/16 03:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/16/16 03:12	107-06-2	
1,1-Dichloroethene	**4.7**	ug/L	1.0	0.20	1		01/16/16 03:12	75-35-4	
cis-1,2-Dichloroethene	**125**	ug/L	1.0	0.080	1		01/16/16 03:12	156-59-2	
trans-1,2-Dichloroethene	**0.96J**	ug/L	1.0	0.20	1		01/16/16 03:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/16/16 03:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/16/16 03:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/16/16 03:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/16/16 03:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/16/16 03:12	591-78-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		01/16/16 03:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/16/16 03:12	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/16/16 03:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/16/16 03:12	79-34-5	
Tetrachloroethene	**0.17J**	ug/L	1.0	0.10	1		01/16/16 03:12	127-18-4	
Toluene	**0.36J**	ug/L	1.0	0.17	1		01/16/16 03:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/16/16 03:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/16/16 03:12	79-00-5	
Trichloroethene	**306**	ug/L	10.0	1.7	10		01/19/16 13:23	79-01-6	
Vinyl chloride	**1.3**	ug/L	1.0	0.13	1		01/16/16 03:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/16/16 03:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		01/16/16 03:12	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		01/16/16 03:12	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/16/16 03:12	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/16/16 03:12		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211267

Sample: VP-10-201601 **Lab ID: 60211267002** Collected: 01/12/16 13:51 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**4.1J**	ug/L	10.0	1.9	1		01/19/16 13:09	67-64-1	
Benzene	**0.32J**	ug/L	1.0	0.060	1		01/19/16 13:09	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/19/16 13:09	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/19/16 13:09	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/19/16 13:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/19/16 13:09	78-93-3	
Carbon disulfide	**0.18J**	ug/L	5.0	0.12	1		01/19/16 13:09	75-15-0	B
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/19/16 13:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/19/16 13:09	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/19/16 13:09	75-00-3	
Chloroform	**5.0**	ug/L	1.0	0.14	1		01/19/16 13:09	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/19/16 13:09	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/19/16 13:09	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/19/16 13:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/19/16 13:09	107-06-2	
1,1-Dichloroethene	**1.0**	ug/L	1.0	0.20	1		01/19/16 13:09	75-35-4	
cis-1,2-Dichloroethene	**8.6**	ug/L	1.0	0.080	1		01/19/16 13:09	156-59-2	
trans-1,2-Dichloroethene	**0.26J**	ug/L	1.0	0.20	1		01/19/16 13:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/19/16 13:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/19/16 13:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/19/16 13:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/19/16 13:09	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/19/16 13:09	591-78-6	
Methylene chloride	**0.94J**	ug/L	1.0	0.15	1		01/19/16 13:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/19/16 13:09	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/19/16 13:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/19/16 13:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/19/16 13:09	127-18-4	
Toluene	**0.77J**	ug/L	1.0	0.17	1		01/19/16 13:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/19/16 13:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/19/16 13:09	79-00-5	
Trichloroethene	**823**	ug/L	5.0	0.85	5		01/20/16 16:55	79-01-6	
Vinyl chloride	**0.27J**	ug/L	1.0	0.13	1		01/19/16 13:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/19/16 13:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	77-130		1		01/19/16 13:09	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	81-127		1		01/19/16 13:09	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		01/19/16 13:09	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/19/16 13:09		

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211267

QC Batch: MSV/73774
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211267001

METHOD BLANK: 1697880
Matrix: Water
Associated Lab Samples: 60211267001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/15/16 22:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/15/16 22:22	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/15/16 22:22	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/15/16 22:22	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 22:22	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/15/16 22:22	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/15/16 22:22	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/15/16 22:22	
2-Hexanone	ug/L	ND	10.0	1.2	01/15/16 22:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/15/16 22:22	
Acetone	ug/L	ND	10.0	1.9	01/15/16 22:22	
Benzene	ug/L	ND	1.0	0.060	01/15/16 22:22	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/15/16 22:22	
Bromoform	ug/L	ND	1.0	0.070	01/15/16 22:22	
Bromomethane	ug/L	ND	5.0	0.16	01/15/16 22:22	
Carbon disulfide	ug/L	ND	5.0	0.12	01/15/16 22:22	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/15/16 22:22	
Chlorobenzene	ug/L	ND	1.0	0.21	01/15/16 22:22	
Chloroethane	ug/L	ND	1.0	0.15	01/15/16 22:22	
Chloroform	ug/L	ND	1.0	0.14	01/15/16 22:22	
Chloromethane	ug/L	ND	1.0	0.080	01/15/16 22:22	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/15/16 22:22	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/15/16 22:22	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/15/16 22:22	
Ethylbenzene	ug/L	ND	1.0	0.18	01/15/16 22:22	
Methylene chloride	ug/L	ND	1.0	0.15	01/15/16 22:22	
Styrene	ug/L	ND	1.0	0.12	01/15/16 22:22	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/15/16 22:22	
Toluene	ug/L	ND	1.0	0.17	01/15/16 22:22	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/15/16 22:22	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/15/16 22:22	
Vinyl chloride	ug/L	ND	1.0	0.13	01/15/16 22:22	
Xylene (Total)	ug/L	ND	3.0	0.42	01/15/16 22:22	
1,2-Dichloroethane-d4 (S)	%	102	80-120		01/15/16 22:22	
4-Bromofluorobenzene (S)	%	102	80-120		01/15/16 22:22	
Toluene-d8 (S)	%	100	80-120		01/15/16 22:22	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211267

LABORATORY CONTROL SAMPLE: 1697881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.0	95	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	18.7	93	73-121	
1,1,2-Trichloroethane	ug/L	20	18.0	90	80-120	
1,1-Dichloroethane	ug/L	20	20.7	104	80-120	
1,1-Dichloroethene	ug/L	20	16.7	83	80-120	
1,2-Dichloroethane	ug/L	20	20.1	101	81-120	
1,2-Dichloropropane	ug/L	20	19.3	97	80-120	
2-Butanone (MEK)	ug/L	100	115	115	67-122	
2-Hexanone	ug/L	100	107	107	75-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	76-120	
Acetone	ug/L	100	128	128	72-120	L0
Benzene	ug/L	20	20.4	102	80-120	
Bromodichloromethane	ug/L	20	19.0	95	80-120	
Bromoform	ug/L	20	17.1	85	73-138	
Bromomethane	ug/L	20	27.2	136	38-137	
Carbon disulfide	ug/L	20	19.2	96	71-129	
Carbon tetrachloride	ug/L	20	18.5	93	67-146	
Chlorobenzene	ug/L	20	19.6	98	80-120	
Chloroethane	ug/L	20	19.8	99	76-120	
Chloroform	ug/L	20	18.0	90	80-120	
Chloromethane	ug/L	20	24.1	121	34-165	
cis-1,2-Dichloroethene	ug/L	20	19.1	96	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.1	100	80-120	
Dibromochloromethane	ug/L	20	18.3	92	80-126	
Ethylbenzene	ug/L	20	20.5	102	80-120	
Methylene chloride	ug/L	20	18.7	94	80-120	
Styrene	ug/L	20	21.4	107	80-123	
Tetrachloroethene	ug/L	20	17.8	89	80-123	
Toluene	ug/L	20	20.3	101	80-120	
trans-1,2-Dichloroethene	ug/L	20	16.6	83	80-120	
trans-1,3-Dichloropropene	ug/L	20	19.4	97	80-129	
Vinyl chloride	ug/L	20	22.4	112	62-125	
Xylene (Total)	ug/L	60	62.3	104	80-120	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			98	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211267

QC Batch: MSV/73785 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211267001, 60211267002

METHOD BLANK: 1698841 Matrix: Water
Associated Lab Samples: 60211267001, 60211267002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/19/16 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/19/16 12:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/19/16 12:11	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/19/16 12:11	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/19/16 12:11	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/19/16 12:11	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/19/16 12:11	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/19/16 12:11	
2-Hexanone	ug/L	ND	10.0	1.2	01/19/16 12:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/19/16 12:11	
Acetone	ug/L	ND	10.0	1.9	01/19/16 12:11	
Benzene	ug/L	ND	1.0	0.060	01/19/16 12:11	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/19/16 12:11	
Bromoform	ug/L	ND	1.0	0.070	01/19/16 12:11	
Bromomethane	ug/L	0.29J	5.0	0.16	01/19/16 12:11	
Carbon disulfide	ug/L	0.15J	5.0	0.12	01/19/16 12:11	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/19/16 12:11	
Chlorobenzene	ug/L	ND	1.0	0.21	01/19/16 12:11	
Chloroethane	ug/L	ND	1.0	0.15	01/19/16 12:11	
Chloroform	ug/L	ND	1.0	0.14	01/19/16 12:11	
Chloromethane	ug/L	0.22J	1.0	0.080	01/19/16 12:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/19/16 12:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/19/16 12:11	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/19/16 12:11	
Ethylbenzene	ug/L	ND	1.0	0.18	01/19/16 12:11	
Methylene chloride	ug/L	ND	1.0	0.15	01/19/16 12:11	
Styrene	ug/L	ND	1.0	0.12	01/19/16 12:11	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/19/16 12:11	
Toluene	ug/L	ND	1.0	0.17	01/19/16 12:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/19/16 12:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/19/16 12:11	
Trichloroethene	ug/L	ND	1.0	0.17	01/19/16 12:11	
Vinyl chloride	ug/L	ND	1.0	0.13	01/19/16 12:11	
Xylene (Total)	ug/L	ND	3.0	0.42	01/19/16 12:11	
1,2-Dichloroethane-d4 (S)	%	101	81-127		01/19/16 12:11	
4-Bromofluorobenzene (S)	%	99	77-130		01/19/16 12:11	
Toluene-d8 (S)	%	98	80-120		01/19/16 12:11	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211267

LABORATORY CONTROL SAMPLE: 1698842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	81-116	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	93	72-117	
1,1,2-Trichloroethane	ug/L	20	18.2	91	79-108	
1,1-Dichloroethane	ug/L	20	20.1	100	83-117	
1,1-Dichloroethene	ug/L	20	19.6	98	74-114	
1,2-Dichloroethane	ug/L	20	19.7	99	72-116	
1,2-Dichloropropane	ug/L	20	18.7	94	80-120	
2-Butanone (MEK)	ug/L	100	108	108	67-129	
2-Hexanone	ug/L	100	104	104	70-128	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	80-120	
Acetone	ug/L	100	119	119	56-142	
Benzene	ug/L	20	20.4	102	79-116	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	19.0	95	73-114	
Bromomethane	ug/L	20	17.4	87	49-153	
Carbon disulfide	ug/L	20	20.9	104	82-121	
Carbon tetrachloride	ug/L	20	19.3	97	80-116	
Chlorobenzene	ug/L	20	19.3	97	80-120	
Chloroethane	ug/L	20	21.6	108	67-124	
Chloroform	ug/L	20	18.5	93	79-120	
Chloromethane	ug/L	20	22.2	111	10-192	
cis-1,2-Dichloroethene	ug/L	20	18.7	93	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	80-120	
Dibromochloromethane	ug/L	20	20.1	101	80-120	
Ethylbenzene	ug/L	20	19.5	98	80-120	
Methylene chloride	ug/L	20	21.0	105	80-120	
Styrene	ug/L	20	20.4	102	80-120	
Tetrachloroethene	ug/L	20	19.5	98	80-120	
Toluene	ug/L	20	19.5	98	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	78-108	
trans-1,3-Dichloropropene	ug/L	20	19.7	99	85-120	
Trichloroethene	ug/L	20	18.3	91	76-114	
Vinyl chloride	ug/L	20	22.5	112	69-129	
Xylene (Total)	ug/L	60	59.5	99	80-120	
1,2-Dichloroethane-d4 (S)	%			101	81-127	
4-Bromofluorobenzene (S)	%			99	77-130	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211267

QC Batch: MSV/73827
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211267002

METHOD BLANK: 1699807 Matrix: Water
Associated Lab Samples: 60211267002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	0.17	01/20/16 14:30	
1,2-Dichloroethane-d4 (S)	%	113	81-127		01/20/16 14:30	
4-Bromofluorobenzene (S)	%	100	77-130		01/20/16 14:30	
Toluene-d8 (S)	%	101	80-120		01/20/16 14:30	

LABORATORY CONTROL SAMPLE: 1699808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	20	16.2	81	76-114	
1,2-Dichloroethane-d4 (S)	%			110	81-127	
4-Bromofluorobenzene (S)	%			102	77-130	
Toluene-d8 (S)	%			102	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALIFIERS

Project: FORT SMITH AR
Pace Project No.: 60211267

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73774

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/73785

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/73827

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211267

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211267001	**MW-176-201601**	EPA 5030B/8260	MSV/73774		
60211267001	**MW-176-201601**	EPA 5030B/8260	MSV/73785		
60211267002	**VP-10-201601**	EPA 5030B/8260	MSV/73785		
60211267002	**VP-10-201601**	EPA 5030B/8260	MSV/73827		

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Sample Condition Upon Receipt

WO# : 60211267

60211267

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☒ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☒ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 1.8

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JB 1/14

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 holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<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	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC:	☒Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☒Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	~~☐Yes~~ ☒No ☐N/A JB 1/14	
Pace Trip Blank lot # (if purchased): _____		15.
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☒N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: G Date: 1/15/14

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical
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Page: | of |

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Ciyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

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 VOCs	Alkalinity	TOC	Chloride, Sulfate	9015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Y/N	N										60211267
1	MW-176-201601	WT	G	1/12/16	1335				3				X						X									N	(3)DGAH 01
2	VP-10-201601	WT	G	1/12/16	1351				3				X						X									N	↓ 02
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Wendy Stonestreet +	1/13/16	1915		1/14	1400	1.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM/DD/YY): 1/13/16

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-Feb-2007

Pace Analytical Services, Inc.
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(913)599-5665

January 26, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH AR
Pace Project No.: 60211269

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 14, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH AR
Pace Project No.: 60211269

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

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SAMPLE SUMMARY

Project: FORT SMITH AR
Pace Project No.: 60211269

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60211269001	**MW-179-201601**	Water	01/13/16 09:30	01/14/16 14:00
60211269002	**VP-14-201601**	Water	01/13/16 09:50	01/14/16 14:00

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211269

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60211269001	**MW-179-201601**	EPA 5030B/8260	PGH	38	PASI-K
60211269002	**VP-14-201601**	EPA 5030B/8260	PGH	38	PASI-K

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211269

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 26, 2016

General Information:
2 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: MSV/73785

B: Analyte was detected in the associated method blank.

- BLANK for HBN 416091 [MSV/7378 (Lab ID: 1698841)
  - Carbon disulfide
  - Chloromethane

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73785

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211269

Sample: MW-179-201601 **Lab ID: 60211269001** Collected: 01/13/16 09:30 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**2.7J**	ug/L	10.0	1.9	1		01/19/16 12:40	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/19/16 12:40	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/19/16 12:40	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/19/16 12:40	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/19/16 12:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/19/16 12:40	78-93-3	
Carbon disulfide	**0.14J**	ug/L	5.0	0.12	1		01/19/16 12:40	75-15-0	B
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/19/16 12:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/19/16 12:40	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/19/16 12:40	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/19/16 12:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		01/19/16 12:40	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/19/16 12:40	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/19/16 12:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/19/16 12:40	107-06-2	
1,1-Dichloroethene	**0.48J**	ug/L	1.0	0.20	1		01/19/16 12:40	75-35-4	
cis-1,2-Dichloroethene	**1.1**	ug/L	1.0	0.080	1		01/19/16 12:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/19/16 12:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/19/16 12:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/19/16 12:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/19/16 12:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/19/16 12:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/19/16 12:40	591-78-6	
Methylene chloride	**0.56J**	ug/L	1.0	0.15	1		01/19/16 12:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/19/16 12:40	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/19/16 12:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/19/16 12:40	79-34-5	
Tetrachloroethene	**1.1**	ug/L	1.0	0.10	1		01/19/16 12:40	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/19/16 12:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/19/16 12:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/19/16 12:40	79-00-5	
Trichloroethene	**30.6**	ug/L	1.0	0.17	1		01/19/16 12:40	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/19/16 12:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/19/16 12:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	77-130		1		01/19/16 12:40	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	81-127		1		01/19/16 12:40	17060-07-0	
Toluene-d8 (S)	104	%	80-120		1		01/19/16 12:40	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/19/16 12:40		

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211269

Sample: VP-14-201601 **Lab ID: 60211269002** Collected: 01/13/16 09:50 Received: 01/14/16 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**4.3J**	ug/L	10.0	1.9	1		01/19/16 12:54	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/19/16 12:54	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/19/16 12:54	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/19/16 12:54	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		01/19/16 12:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/19/16 12:54	78-93-3	
Carbon disulfide	**0.58J**	ug/L	5.0	0.12	1		01/19/16 12:54	75-15-0	B
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/19/16 12:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/19/16 12:54	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/19/16 12:54	75-00-3	
Chloroform	**1.1**	ug/L	1.0	0.14	1		01/19/16 12:54	67-66-3	
Chloromethane	**0.75J**	ug/L	1.0	0.080	1		01/19/16 12:54	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/19/16 12:54	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/19/16 12:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/19/16 12:54	107-06-2	
1,1-Dichloroethene	**0.77J**	ug/L	1.0	0.20	1		01/19/16 12:54	75-35-4	
cis-1,2-Dichloroethene	**2.3**	ug/L	1.0	0.080	1		01/19/16 12:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		01/19/16 12:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/19/16 12:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/19/16 12:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/19/16 12:54	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/19/16 12:54	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/19/16 12:54	591-78-6	
Methylene chloride	**0.77J**	ug/L	1.0	0.15	1		01/19/16 12:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/19/16 12:54	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/19/16 12:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/19/16 12:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		01/19/16 12:54	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/19/16 12:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/19/16 12:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/19/16 12:54	79-00-5	
Trichloroethene	**65.6**	ug/L	1.0	0.17	1		01/19/16 12:54	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/19/16 12:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/19/16 12:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	77-130		1		01/19/16 12:54	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	81-127		1		01/19/16 12:54	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		01/19/16 12:54	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/19/16 12:54		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211269

QC Batch: MSV/73785
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211269001, 60211269002

METHOD BLANK: 1698841
Matrix: Water
Associated Lab Samples: 60211269001, 60211269002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/19/16 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/19/16 12:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/19/16 12:11	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/19/16 12:11	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/19/16 12:11	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/19/16 12:11	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/19/16 12:11	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/19/16 12:11	
2-Hexanone	ug/L	ND	10.0	1.2	01/19/16 12:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/19/16 12:11	
Acetone	ug/L	ND	10.0	1.9	01/19/16 12:11	
Benzene	ug/L	ND	1.0	0.060	01/19/16 12:11	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/19/16 12:11	
Bromoform	ug/L	ND	1.0	0.070	01/19/16 12:11	
Bromomethane	ug/L	0.29J	5.0	0.16	01/19/16 12:11	
Carbon disulfide	ug/L	0.15J	5.0	0.12	01/19/16 12:11	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/19/16 12:11	
Chlorobenzene	ug/L	ND	1.0	0.21	01/19/16 12:11	
Chloroethane	ug/L	ND	1.0	0.15	01/19/16 12:11	
Chloroform	ug/L	ND	1.0	0.14	01/19/16 12:11	
Chloromethane	ug/L	0.22J	1.0	0.080	01/19/16 12:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/19/16 12:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/19/16 12:11	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/19/16 12:11	
Ethylbenzene	ug/L	ND	1.0	0.18	01/19/16 12:11	
Methylene chloride	ug/L	ND	1.0	0.15	01/19/16 12:11	
Styrene	ug/L	ND	1.0	0.12	01/19/16 12:11	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/19/16 12:11	
Toluene	ug/L	ND	1.0	0.17	01/19/16 12:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/19/16 12:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/19/16 12:11	
Trichloroethene	ug/L	ND	1.0	0.17	01/19/16 12:11	
Vinyl chloride	ug/L	ND	1.0	0.13	01/19/16 12:11	
Xylene (Total)	ug/L	ND	3.0	0.42	01/19/16 12:11	
1,2-Dichloroethane-d4 (S)	%	101	81-127		01/19/16 12:11	
4-Bromofluorobenzene (S)	%	99	77-130		01/19/16 12:11	
Toluene-d8 (S)	%	98	80-120		01/19/16 12:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211269

LABORATORY CONTROL SAMPLE: 1698842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	81-116	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	93	72-117	
1,1,2-Trichloroethane	ug/L	20	18.2	91	79-108	
1,1-Dichloroethane	ug/L	20	20.1	100	83-117	
1,1-Dichloroethene	ug/L	20	19.6	98	74-114	
1,2-Dichloroethane	ug/L	20	19.7	99	72-116	
1,2-Dichloropropane	ug/L	20	18.7	94	80-120	
2-Butanone (MEK)	ug/L	100	108	108	67-129	
2-Hexanone	ug/L	100	104	104	70-128	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	80-120	
Acetone	ug/L	100	119	119	56-142	
Benzene	ug/L	20	20.4	102	79-116	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	19.0	95	73-114	
Bromomethane	ug/L	20	17.4	87	49-153	
Carbon disulfide	ug/L	20	20.9	104	82-121	
Carbon tetrachloride	ug/L	20	19.3	97	80-116	
Chlorobenzene	ug/L	20	19.3	97	80-120	
Chloroethane	ug/L	20	21.6	108	67-124	
Chloroform	ug/L	20	18.5	93	79-120	
Chloromethane	ug/L	20	22.2	111	10-192	
cis-1,2-Dichloroethene	ug/L	20	18.7	93	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	80-120	
Dibromochloromethane	ug/L	20	20.1	101	80-120	
Ethylbenzene	ug/L	20	19.5	98	80-120	
Methylene chloride	ug/L	20	21.0	105	80-120	
Styrene	ug/L	20	20.4	102	80-120	
Tetrachloroethene	ug/L	20	19.5	98	80-120	
Toluene	ug/L	20	19.5	98	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	78-108	
trans-1,3-Dichloropropene	ug/L	20	19.7	99	85-120	
Trichloroethene	ug/L	20	18.3	91	76-114	
Vinyl chloride	ug/L	20	22.5	112	69-129	
Xylene (Total)	ug/L	60	59.5	99	80-120	
1,2-Dichloroethane-d4 (S)	%			101	81-127	
4-Bromofluorobenzene (S)	%			99	77-130	
Toluene-d8 (S)	%			101	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALIFIERS

Project: FORT SMITH AR
Pace Project No.: 60211269

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73785

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211269

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211269001	**MW-179-201601**	EPA 5030B/8260	MSV/73785		
60211269002	**VP-14-201601**	EPA 5030B/8260	MSV/73785		

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Sample Condition Upon Receipt

WO# : 60211269

60211269

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☒ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☒ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / (CF +0.7 T-262) **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 1.8

Date and initials of person examining contents: JB 1/14

Temperature should be above freezing to 6°C

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 holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<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	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC:	☒Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	14.
Exceptions: (VOA, Coliform, O&G, WI-DRO (water))	☒Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	~~☐Yes~~ ☒No ☐N/A JB 1/14	
Pace Trip Blank lot # (if purchased): _____		15.
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☒N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/15/14

F-KS-C-003-Rev.9, 30June2015

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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 1

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		N												
1	MW-179-201601	WT	G	1/13/16	930				3				X						X											N	60211269 (3DCAH) 01
2	VP-14-201601	WT	G	1/13/16	950				3				X						X											N	02
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Wendy Stonestreet	1/13/16	1815		1/14	1400	1.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM/DD/YY): 1/13/16

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-Feb-2007

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

January 27, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH AR
Pace Project No.: 60211330

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 15, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: FORT SMITH AR
Pace Project No.: 60211330

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

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SAMPLE SUMMARY

Project: FORT SMITH AR
Pace Project No.: 60211330

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60211330001	**MW-180-201601**	Water	01/14/16 08:20	01/15/16 13:01

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60211330

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60211330001	**MW-180-201601**	EPA 5030B/8260	PGH	38	PASI-K

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60211330

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: January 27, 2016

General Information:
1 sample was analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: MSV/73785

B: Analyte was detected in the associated method blank.

- BLANK for HBN 416091 [MSV/7378 (Lab ID: 1698841)
  - Bromomethane
  - Chloromethane

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/73785

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60211330

Sample: MW-180-201601 **Lab ID: 60211330001** Collected: 01/14/16 08:20 Received: 01/15/16 13:01 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		01/19/16 12:25	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		01/19/16 12:25	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		01/19/16 12:25	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		01/19/16 12:25	75-25-2	
Bromomethane	**0.33J**	ug/L	5.0	0.16	1		01/19/16 12:25	74-83-9	B
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		01/19/16 12:25	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.12	1		01/19/16 12:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		01/19/16 12:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		01/19/16 12:25	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		01/19/16 12:25	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		01/19/16 12:25	67-66-3	
Chloromethane	**0.14J**	ug/L	1.0	0.080	1		01/19/16 12:25	74-87-3	B
Dibromochloromethane	ND	ug/L	1.0	0.21	1		01/19/16 12:25	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		01/19/16 12:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/19/16 12:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		01/19/16 12:25	75-35-4	
cis-1,2-Dichloroethene	**1.5**	ug/L	1.0	0.080	1		01/19/16 12:25	156-59-2	
trans-1,2-Dichloroethene	**0.27J**	ug/L	1.0	0.20	1		01/19/16 12:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		01/19/16 12:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		01/19/16 12:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		01/19/16 12:25	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		01/19/16 12:25	100-41-4	
2-Hexanone	ND	ug/L	10.0	1.2	1		01/19/16 12:25	591-78-6	
Methylene chloride	**0.63J**	ug/L	1.0	0.15	1		01/19/16 12:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		01/19/16 12:25	108-10-1	
Styrene	ND	ug/L	1.0	0.12	1		01/19/16 12:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		01/19/16 12:25	79-34-5	
Tetrachloroethene	**0.25J**	ug/L	1.0	0.10	1		01/19/16 12:25	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		01/19/16 12:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		01/19/16 12:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		01/19/16 12:25	79-00-5	
Trichloroethene	**10.6**	ug/L	1.0	0.17	1		01/19/16 12:25	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.13	1		01/19/16 12:25	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		01/19/16 12:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	77-130		1		01/19/16 12:25	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	81-127		1		01/19/16 12:25	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/19/16 12:25	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/19/16 12:25		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211330

QC Batch: MSV/73785
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60211330001

METHOD BLANK: 1698841
Matrix: Water
Associated Lab Samples: 60211330001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	01/19/16 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	01/19/16 12:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	01/19/16 12:11	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	01/19/16 12:11	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	01/19/16 12:11	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	01/19/16 12:11	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	01/19/16 12:11	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	01/19/16 12:11	
2-Hexanone	ug/L	ND	10.0	1.2	01/19/16 12:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	01/19/16 12:11	
Acetone	ug/L	ND	10.0	1.9	01/19/16 12:11	
Benzene	ug/L	ND	1.0	0.060	01/19/16 12:11	
Bromodichloromethane	ug/L	ND	1.0	0.19	01/19/16 12:11	
Bromoform	ug/L	ND	1.0	0.070	01/19/16 12:11	
Bromomethane	ug/L	0.29J	5.0	0.16	01/19/16 12:11	
Carbon disulfide	ug/L	0.15J	5.0	0.12	01/19/16 12:11	
Carbon tetrachloride	ug/L	ND	1.0	0.18	01/19/16 12:11	
Chlorobenzene	ug/L	ND	1.0	0.21	01/19/16 12:11	
Chloroethane	ug/L	ND	1.0	0.15	01/19/16 12:11	
Chloroform	ug/L	ND	1.0	0.14	01/19/16 12:11	
Chloromethane	ug/L	0.22J	1.0	0.080	01/19/16 12:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	01/19/16 12:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	01/19/16 12:11	
Dibromochloromethane	ug/L	ND	1.0	0.21	01/19/16 12:11	
Ethylbenzene	ug/L	ND	1.0	0.18	01/19/16 12:11	
Methylene chloride	ug/L	ND	1.0	0.15	01/19/16 12:11	
Styrene	ug/L	ND	1.0	0.12	01/19/16 12:11	
Tetrachloroethene	ug/L	ND	1.0	0.10	01/19/16 12:11	
Toluene	ug/L	ND	1.0	0.17	01/19/16 12:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	01/19/16 12:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	01/19/16 12:11	
Trichloroethene	ug/L	ND	1.0	0.17	01/19/16 12:11	
Vinyl chloride	ug/L	ND	1.0	0.13	01/19/16 12:11	
Xylene (Total)	ug/L	ND	3.0	0.42	01/19/16 12:11	
1,2-Dichloroethane-d4 (S)	%	101	81-127		01/19/16 12:11	
4-Bromofluorobenzene (S)	%	99	77-130		01/19/16 12:11	
Toluene-d8 (S)	%	98	80-120		01/19/16 12:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60211330

LABORATORY CONTROL SAMPLE: 1698842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	81-116	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	93	72-117	
1,1,2-Trichloroethane	ug/L	20	18.2	91	79-108	
1,1-Dichloroethane	ug/L	20	20.1	100	83-117	
1,1-Dichloroethene	ug/L	20	19.6	98	74-114	
1,2-Dichloroethane	ug/L	20	19.7	99	72-116	
1,2-Dichloropropane	ug/L	20	18.7	94	80-120	
2-Butanone (MEK)	ug/L	100	108	108	67-129	
2-Hexanone	ug/L	100	104	104	70-128	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	80-120	
Acetone	ug/L	100	119	119	56-142	
Benzene	ug/L	20	20.4	102	79-116	
Bromodichloromethane	ug/L	20	19.2	96	80-120	
Bromoform	ug/L	20	19.0	95	73-114	
Bromomethane	ug/L	20	17.4	87	49-153	
Carbon disulfide	ug/L	20	20.9	104	82-121	
Carbon tetrachloride	ug/L	20	19.3	97	80-116	
Chlorobenzene	ug/L	20	19.3	97	80-120	
Chloroethane	ug/L	20	21.6	108	67-124	
Chloroform	ug/L	20	18.5	93	79-120	
Chloromethane	ug/L	20	22.2	111	10-192	
cis-1,2-Dichloroethene	ug/L	20	18.7	93	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	80-120	
Dibromochloromethane	ug/L	20	20.1	101	80-120	
Ethylbenzene	ug/L	20	19.5	98	80-120	
Methylene chloride	ug/L	20	21.0	105	80-120	
Styrene	ug/L	20	20.4	102	80-120	
Tetrachloroethene	ug/L	20	19.5	98	80-120	
Toluene	ug/L	20	19.5	98	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	78-108	
trans-1,3-Dichloropropene	ug/L	20	19.7	99	85-120	
Trichloroethene	ug/L	20	18.3	91	76-114	
Vinyl chloride	ug/L	20	22.5	112	69-129	
Xylene (Total)	ug/L	60	59.5	99	80-120	
1,2-Dichloroethane-d4 (S)	%			101	81-127	
4-Bromofluorobenzene (S)	%			99	77-130	
Toluene-d8 (S)	%			101	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH AR
Pace Project No.: 60211330

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73785

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60211330

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60211330001	**MW-180-201601**	EPA 5030B/8260	MSV/73785		

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www.pacelabs.com

Sample Condition Upon Receipt

WO# : 60211330

60211330

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☑

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☐ No ☑ Seals intact: Yes ☐ No ☑

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☑ None ☐ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 5.9

Date and initials of person examining contents: JB 1/15

Temperature should be above freezing to 6°C

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 holding time:	☑Yes	☐No	☐N/A	5.
Short Hold Time analyses (<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	
Pace containers used:	☑Yes	☐No	☐N/A	9.
Containers intact:	☑Yes	☐No	☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes	☐No	☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes	☐No	☑N/A	12.
Sample labels match COC:	☑Yes	☐No	☐N/A	
Includes date/time/ID/analyses Matrix: WT				13.
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☑Yes	☐No		Initial when completed / Lot # of added preservative
Trip Blank present:	☐Yes	☑No	☐N/A	
Pace Trip Blank lot # (if purchased): _____				15.
Headspace in VOA vials (>6mm):	☐Yes	☑No	☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☐No	☑N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes	☐No	☑N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

REVIEWED
By hwilson at 3:42 pm, 1/15/16

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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.

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tammy Gleason
Purchase Order No.:	NA
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tammy Gleason
Company Name:	Environ
Address:	250 Monroe Ave. NW Grand Rapids
Pace Quote Reference:	Michigan, 49503
Pace Project Manager:	Colleen Clyne
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER ADEQ

Site Location STATE: AR

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

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 VOCs	Alkalinity	TOC	Chloride, Sulfate	8015 Chloroethanol (Pace Dallas)	6010-Iron/Mn	Ferric Iron calc. (send field Ferrous)	Ammonia	Nitrate+Nitrite	Total Phosphate (Pace Dallas)	Sulfide	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-180-20161114	WT	G	11/14/16	820				3				X						X											(3) D19A
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

60211330

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV data package required	Wendy Stonestreet / Ramboll/ENVIRON	11/15/16	1300	[signature]	11/15/16	1301	5.9	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet

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

*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.

Appendix B

Field Notes and Weather Data for January and February 2016

6

Fort Smith, AR 1/7/14 45°F Rain

Whirlpool / Ramboll ENVIRON - 1st quart.
0645 - Lucy Cross on-site.
- Waiting for Nick Z & Haley B.
0703 - Texted Nick - getting Haley rental car.
0718 - Mob to hotel.
0750 - Arrived on-site.
0800 - Calibrated YSI - 15C 103550
- Barometric pressure - 29.95 IN
- DO % - 98.7%
- Specific Conductance - ~~2~~ 1.413 ms/cm
- ORP - 240.0
- pH 7.0 - 7.0
- pH 4.0 - 4.0
- pH 10.0 - 10.0
0820 - Loaded equipment into vehicle.
0830 - Mob to MW-24.
- DTW - 11.40
- TD - 32.31, screen - 10', 4" PVC
- Pump set at 27.31
- Flow rate - 100 mL/min
0855 - Took first reading.
0920 - ORP not stabilizing.
0955 - Purged for 1 hr.
- Ferrous Iron - 0.00 mg/L

JC

1/7/14 Fort Smith, AR 43°F Cloudy

Whirlpool / Ramboll ENVIRON - 1st Quar. Samp
- Persulfate test - 5 drops x 14 (100) = 1,400 ppm - used ascorbic acid VOAs.
1010 - Collected samples.
1101 - Loaded equipment & mob to boiler room.
1120 - Mob to MW-23.
- Set up equipment.
- TD - 27.87, DTW - 10.74
- Screen - 10', pump set at 22.87'
- Flow rate - 100 mL/min
1130 - Took first reading.
1230 - Purged for one hour.
- Did not notice any odors, water was only slightly turbid.
- Ferrous Iron - 0.00 mg/L
- Persulfate Test: 3 drops = 14 x 300 = 4,200 ppm - used ascorbid acid VOAs.
1255 - Collected samples.
1330 - Completed samples, packed up equipment.
1340 - Mob off-site for lunch.
1410 - Mob to IW-80.
1415 - Set up equipment.
1420 - Could not get water into pump.

Rain

JC

8 1/7/2016 Fort Smith, AR 45°F Cloudy

Whirlpool/Ramboll Environ-1st Quart

-Pulled tubing, measured ID = 29.4'.

-Added tubing weight.

1430-Finally saw water in flow-through cell.

1438-Flow rate-100 mL/min.

-water very turbid due to tubing being re-applied to well.

1442-Took first reading

1542-Well did not stabilize, purged for one hour, purged 1.58 gallons

-Ferrous Iron-0.00 mg/L.

-Persulfate Test-3 drops purge water = 3$ x 300 = 10,500 ppm.

1550-Collected samples-used ascorbic acid VOAs.

1630-Completed samples.

-Broke down equipment & loaded vehicle.

1645-Mob to boiler room, dropped off samples for Nick to start COC & unloaded equipment.

1700-Mob to gas station for ice, bought 8 bags.

1715-Stopped by MW-33R

JC

1/7/16 Fort Smith, AR 45°F Cloudy

Whirlpool/Ramboll Environ-1st Quart. Sampling

picked up purge water,

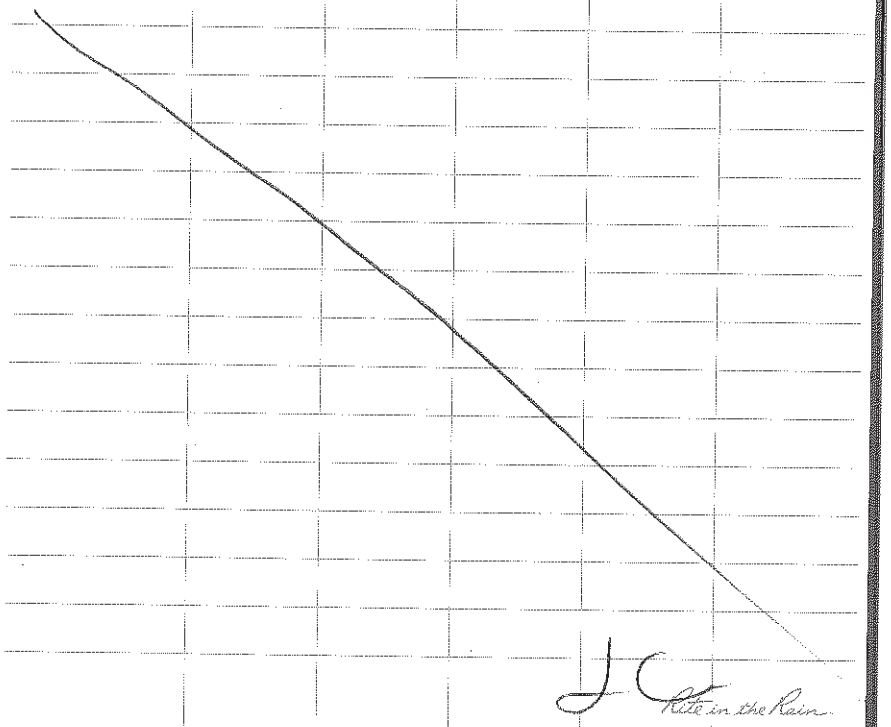
1720-Arrived back at boiler room, started bagging ice for coolers.

1735-Packed coolers,

1800-Dumped ~~20~~ gallons of purge water.

1812-Completed COC, taped coolers-Haley B will take to Fed-ex.

1820-left site for the day.



JC

Rite in the Rain

1/8/16 Ft. Smith, AR ~~44~~ 40°F Foggy

Whirlpool/Ramboll environ - 1st Quart Sampling

0645 - Lucy Cross On-site.

0650 - Began calibration of YSI (15C103554)
- Specific Conductance - 1.413 mS/cm
Lot #: 56F509, Exp: 06/2016
- ORP - 240
Lot #: 8154, Exp: 10/31/19
- pH 7.0 - 7.0
Lot #: 5AC963, Exp: 03/2017
- pH 4.0 - 4.0
Lot # 5AC915, Exp: 03/17
- pH - 10.0 - 10.0
Lot #: 5AA1164, Exp: 01/2017
- DO % - 97.5, Barometric press - 29.77IN.

0745 - Loaded equipment into vehicle.
- Will start at TMW-10 this am.

0820 - Arrived at Brazil St to TMW-10.
- Unloaded equipment & set up well.

0840 - Began purging.
- TD - 15.18', DTW - 5.00'
- Screen - 5', pump set at 12.08'.
- 2" PVC.
- Need to purge 3 well volumes (15.18 - 5.00 = 10.18 x 0.163 = 1.66 x 3 = 4.97 (5 gallons).

LC

Fort Smith, AR 1/8/16 46°F

Whirlpool/Ramboll Environ - 1st Quart. Event Foggy

0846 - Took first readings.
- Flow rate - 100 mLs/min.

0930 - Nick Z talked to Michael Wilson, who said to bump flow rate up to 300 mLs/min.
- Only sampling VOCs today.

1011 - Purged ~5.5 gallons of water.
- Ferrous Iron - 0.14 mg/L

1015 - ~~Cotted~~ Collected VOC samples.

1020 - Broke down equipment, closed well & loaded vehicle.

1040 - Mob to gas station for gas.

1050 - Lyt site to get coffee & lunch for everyone.

1130 - Arrived at boiler room - picked up extra buckets & battery.

1130 - Mob to MW-33R
- We have been purging water from MW-33R since getting on-site is am.
- Changed pumps - current pump (Geo) battery died; now using Pegasus with new battery.

1440 - TD - 29.32', DTW - 9.70'

LC

Rite in the Rain

1/6/2016 Ft. Smith, AR 47°F

Whirlpool/RE-1st Quarter Sampling Event Cloudy

- Screen length - 10', pump set at 24.32'.
- Flow rate - 100mls/min
- Nick Z called & recommended applying 5 drops purge water when testing persulfate
  - If non-detect, do not dilute purge water & read pure results.

1200 - Took first reading.
1225 - ORP not stabilizing.
1255 - Well stabilized.
  - Ferrous Iron - 0.00 mg/L
  - Persulfate test - 5 drops = 0.7 x 100 = 70ppm; Performed undiluted test with 25mls purge water, also read 70 ppm. -- Did not use ascorbic acid VOAs.
  - Water was slightly turbid while purging.
1310 - Collected samples.
1345 - Completed collecting samples.
  - Broke down equipment & loaded vehicle.
1400 - mob to boiler room.
1405 - Arrived at boiler room.
  - Unloaded equipment from vehicle.

JC

1/8/16 Ft. Smith, AR 51°F Cloudy

Whirlpool/RE-1st Quarter Sampling Event.

~~1130~~ - 1440 - Completed equipment blank from water level meter.
1450 - Organized equipment in boiler room.
1500 - Organized & separated sample bottles for microseeps & microbial Insights.
1515 - Started filling out COCs for PACE, microseeps & microbial Insights.
1530 - Nick & Haley arrived at boiler room.
  - Packed coolers & completed COC.
1630 - left site & dropped off coolers at Fed-ex.
1700 - left Fort Smith.

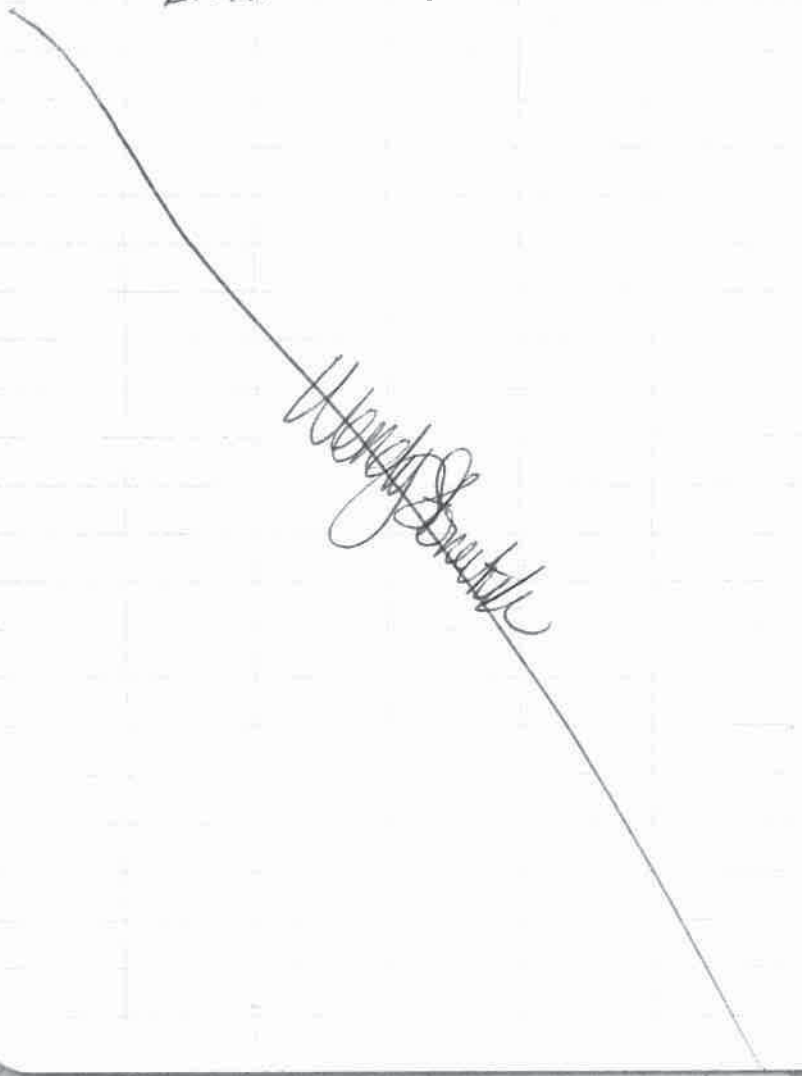
L Rain on the Rain

Location FORT SMITH, ARKANSAS Date 11/5/2015

Project / Client WHIRLPOOL ISCO/ISCR monitoring

64° Cloudy.

1600 (cont) - Clean up in boiler room, Pack equipment.
- ENVIRON off-site.



Location FORT SMITH, ARKANSAS Date 1/11/2016

Project / Client WHIRLPOOL GW sampling, 1st Quarter

30° SUNNY W. Stonestreet

0615 - Arrive on-site.
- Begin to organize coolers and present forms for sampling.

645 - Nick L. & Haley on site. Courtney on-site. Lucy Cross, Tamara H., Michael C., Josh M. Victoria S., on site.

715 - Conduct meeting for samplers. Task - GW sampling.
- H&S meeting. Traffic Safety, Cold Weather awareness.

800 - Continue to organize coolers. Assign MS/MSDs & Duplicates.

850 - Begin to calibrate equipment. See calibration sheet.
- Pack coolers & vehicle for sampling.

930 - Arrive at Winkers property. Set-up on MW-175.

950 - Set-up & begin purging.

1035 - Collect VOC sample MW-175-201601.
- MOB to VP-08.
- Vapor point has water in line. Confirmed by using vapor pump.

1105 - Collect a water sample from VP-08-201601.
- Checked VP-07 for water in line.

WJS

Location FORT SMITH, ARKANSAS Date 1/11/2016

Project / Client GW Sampling / WHIRLPOOL

° SUNNY 36°, CALM. W. Stonestreet

1117 - Water in line for VP-07.

1120 - Collect water sample VP-07-201601.

1140 - MOB to off-site for lunch.

1230 - Set-up at ~~MW~~ VP-15. Battery cable is broken. Tried to repair but wires are damaged.

- Return to boiler room to pick up cable kit. On way back to well Lucy C. called. She needed sample bottle packet for MW-56R.
- Return to boiler room. Pick up sample packet.
- Stop at MW-56R to drop off bottles.
- Return to VP-15.

1330 - Collect water sample from VP-15-201601

- Water effervesces as did VP-07 & VP-08.

1400 - MOB to MW-177.

- Set up at well.
- All parameters ~~stabilized~~ was stabilized except DTW. Well is shallow and does not recharge effectively.

1450 - Collect sample MW-177-201601

- MOB to MW-181.
- Set up on well.
- All parameters stable except DTW. Well

Location Fort Smith, ARKANSAS Date 1/11/2016

Project / Client GW SAMPLING, WHIRLPOOL

Sunny 34°, Slight Breeze from SW.

draws down.

- Victoria S. & Lucy C. came to well to pick up COCs which had been started.

1545 - Collect sample MW-181-201601.

- MOB to VP-12.
- Check line for water using vapor pump. Line contains water.
- Collect sample VP-12-201601
- Line went dry after two VOAs were collected.
- MOB to boiler room.
- Stopped by the well M. Chamin was sampling. pH was high. Appears well has grout in well. Water is milky. (MW-190).
- Began to pack coolers and fill out COCs. Currier picked up samples ~18:15

1840 - Sampling crew left.

- Closed ~~Diff~~ building & organized samples for following day.

1850 - ENVIRON off-site.

Wendy Stonestreet

Location FORT SMITH, ARKANSAS Date 1/12/2016

Project / Client 1st Quarter GW Sampling / Whirlpool

Sunny 26°. Calm. W. Stonestreet

610 - Arrive on-site

615 - Michael Chomin arrived on-site.

- Assign filters to coolers.

618 - Hardy (Building manager for ILL) arrived in the boiler room to check bathroom operation & to let me know main Whirlpool building fans were on for vapor sampling. with PID.

- Continue to organize sampling bottles and site for the day.

645 - The rest of the sampling crew on site for sampling. Crew: Courtney B., Haley Nick Z., Victoria S., Tamara H.K., Lucy C., Josh M.

715 - Conduct meeting. Task for day - GW monitoring.

- H&S meeting.
- Continue prep for the day.
- Calibrate equipment. See Calibration log.

830 - MOB to offsite wells.

845 - Stopped by MW-55R to discuss sample bottles with M. Chomin.

Return to boiler room to pick up missing

WBS

Location FORT SMITH, ARKANSAS Date 1/12/2016

Project / Client 1st Quarter GW Sampling / Whirlpool

Sunny 28° Calm. W. Stonestreet

bottles.

- MOB to Scroggins property.

900 - Set up on well MW-174.

- Well stabilized except for DTW. Well draws down, and recharges slowly.

1000 - Collect Sample (MW-174-201601)

- MOB to MW-173.

1030 - Set up on well.

1110 - Collect sample (MW-173-201601)

- MOB to VP-06

- Check vapor point for water. Vapor line has water in line

1130 - After purging line for 5 minutes collected Sample (VP-06-201601)

- MOB to VP-05.

- Checked vapor point line for water. Line is full of water. Purged line for ~5.0 minutes. Water effervesses.

1145 - Collect sample (VP-05-201601)

- Clean up at site. All three VOAs had bubbles.

1205 - MOB to gas station to get fuel & take break.

1235 - MOB to KING property to set up on MW-176.

WBS

Location FORT SMITH, ARKANSAS Date 1/12/16

Project / Client 1st Quarter GW Monitoring / Whirlpool

Sunny, Clear and 45° W. Stonestreet

1240 - Set up on MW-176.
1249 - Begin purge.
- Stabilize well. All parameters met criteria except DTW. Well draws down. Slow recharge.
1335 - Collect sample [MW-176-201601].
- MOB to VP-10.
- Well vault is filled with Water.
- Remove water.
- Check vapor line. Line was sealed to outside.
- Checked line for water. Water in line.
1357 - Collect water sample from [VP-10-201601].
1405 - MOB to VP-09.
- Well vault is filled with water.
- Remove water from ~~Vault~~ vault.
- Check vapor line. Line was sealed. Line has no water. Will take vapor sample when summa arrives on site.
- Steam up at site.
1425 - MOB to MW-56R to deliver battery to Tamara HK.
1430 - MOB to boiler room.
1435 - MOB to MW-179.
- Well vault is full of water.

WKS

Location FORT SMITH, ARKANSAS Date 1/12/16

Project / Client 1st Quarter GW Monitoring

Sunny 46° W. Stonestreet

- Remove water from vault.
- Purge well dry. Well historically does not recharge.
1330 - Tamara HK came to well.
- Calibrated PID to do a walk-through the Whirlpool Main building.
- Fresh air = 0.0 ppm.
- Isobutyl alcohol = 99.6 ppm.
- MOB with Tamara HK to main building.
- Walk through the main building monitoring PID in various zones. See Tamara HK notes for full details.
- Received call from M. Chamin. Needs new Sulfide bottle. Left Whirlpool building, picked up replacement bottle from boiler room and MOB to MW-56R.
- Gave bottle to M. Chamin and return to site.
1610 - Return to inside of Whirlpool building and assist Tamara HK.
1630 - Left building and MOB to MW-179 to clean up at well and get refuel.
1635 - MOB to boiler room.
- Begin chain of custody

WKS

Location FORT SMITH, ARKANSAS Date 1/12/2016

Project / Client 1st Quarter Groundwater Sampling / Whirlpool. 30° Sunny, Calm. W. Stonestreet

- Prepare samples for shipping.
  - Pack coolers.

1950 - Ramboll Environ offsite.

Wendy Stonestreet

Location Fort Smith, ARKANSAS Date 1/13/2016

Project / Client 1st Quarter Sampling. Groundwater / Whirlpool. 23°, Clear Slight Breeze. W. Stonestreet

610 - Wendy Stonestreet on-site.
  - Prepare for sampling. Task for the day is ground water sampling.

615 - Sampling crew on-site. M. Chamin, V. Sieglen, N. Zurweller, H. Butterfield, C. Bednaz, L. Cross, T. House-Knight, J. Meyers.

720 - Conduct meeting to discuss sampling activities for the day. Have H&S meeting. Topic: Slip, Trips & Falls.
  - Calibrate equipment. See calibration form.

910 - MOB to MW-179.
  - Well was purge dry on 1/13/2016 at 1500.
  - Well recharged with approximately 2' of water in well.

930 - Collect sample MW-179-201601
  - MOB to VP-14.
  - Checked line for water.
  - Vapor line contains water.

950 - Collect sample VP-14-201601.
  - Clean up at site.
  - MOB to MW-57R to collect MEE+A, Volatile Fatty Acids & Biological samples which were collected on Monday, but were not shipped.

WS

Location FORT SMITH, ARKANSAS Date 1/13/2016

Project / Client 1st Quarter GW Monitoring / Whirlpool

52° Clear, Sunny W. Stonestreet

1030 - Set up on well MW-57R.
- Stabilize well.
1115 - Collect sample [MW-57R-201601] for MEE + Acetylene and vinyl chloride reductase.
- MOB to vehicle, clean up at site.
1205 - Go to gas station to fill up vehicle with gas and get ice.
- MOB to MW-180.
1240 - Set-up on well.
- Well went dry after 20 minutes and four field parameter readings.
1330 - MOB to boiler room.
- Pick up sampling bottles for MW-38.
1400 - Set up on well MW-38.
- Allow well to stabilize.
1500 - Collect sample [MW-38-201601].
1600 - MOB to boiler room and begin to fill out COCs and pack coolers with ice.
- MOB to gas station to get more ice.
1830 - Courier picked up samples.
1845 - Clean up boiler room.
1900 - RE offsite.

Wendy Stonestreet

Location FORT SMITH, ARKANSAS Date 1/14/2016

Project / Client 1st Quarter GW Monitoring / Whirlpool

38° Clear Sunny (DARK) W. Stonestreet

645 - Wendy Stonestreet on site.
- Begin to organize for the day.
655 - Lucy Cross on-site. Tamara H.K & Victoria Siegten onsite.
- Have meeting for the day's work.
- Task for the day is collect the rest of the samples for Hydrogen. Tamara H.K, Lucy Cross and Victoria will complete this task.
- One shallow point well needs to be sampled.
- Conduct health and safety meeting.
745 - MOB to MW-180.
- Checked DTW of well. DTW = 4.25'
- Since well was purged dry (+to 70) yesterday @ 13:15, will collect grab sample.
820 - Collect sample [MW-180-201601].
830 - MOB to boiler room.
- Nick Z. & Holly B. on-site to pick up equipment. Go through an organize all equipment.
1045 - Pick up ice at gas station.

WES

24

Location FORT SMITH, ARKANSAS 1/19/2016

Project / Client 1st Quarter GW Monitoring Event / Shirbool. 40° Sunny W. Stonestreet

11:00 Fill out COCs for Microseep samples.

1200 - Pack Microseeps coolers. Double bag ice

- Pack VOC sample for PACE.
- Organize boiler room.
- Take inventory of supplies.
- Begin to take trash out.
- Break down boxes.
- Pack vehicle with field equipment
- Throw trash in dumpster.

1420 - RE off-site.

92

Location Ft Smith Date 1/12/16

Project / Client Whirlpool | 27°F

1Q GW Sampling | Clear

0615 M. Chomin on-Site
0625 Begin calibration of YSI
0707 Calibration complete
0715-0720 H+S Tailgate Meeting topic – cold stress
0727 Head to MW-55R
0733 Pt MW-55R
0736 off-load to get proper socket size
0745 Back at well,
0753 DTW = 0.73
0800 set pump to 20'
0807 Begin pumping
0855 Begin collecting sample: MW-55R-20160101
- MS/MSD collected for VOCs
- Collected "blue" filter in addition to "purple" filter. Only able to collect 750ml due to clogging for "purple" filter

ML

93

Location Ft. Smith Date 1/12/16

Project / Client Whirlpool | 41°F

1Q GW Sampling | Sunny

1010 Sampling completed
1020 Back to boiler room to dump purge water
1030 Pt MW-68
1034 DTW = 5.18'
1037 set pump to 15.05'
1040 Begin pumping
1112 Begin collecting sample: MW-68-20160101
1158 Sampling completed
1203 Back to boiler room to dump purge water
1210 M. Chomin off-site to get lunch
1220 M. Chomin at RW-69 + eat lunch
1240 DTW = 6.67'
1245 set pump to 23.34'
1247 begin pumping
1330 Begin collecting sample: RW-69-20160101

MC

7/11/16 Whirlpool, Fort Smith, AR

0645 Arrive on site.
0650 Health safety tailgate. TOPICS include traffic safety. Work plan discussed for day.
700 Begin calibration of YSI. See calibration sheets for details.
0730 Begin loading car with equipment and get well assignments
OBJECTIVE: low flow sample
IW-78
IW-79
IW-115
MW-71
Weather: 20°F, cloudy.
0830 CBednar Mobe to IW-78 to Begin low flow sampling.
0930 well stabilization Not achieved
1030 VOC only taken at IW-78. See low flow log for details
1100 Mobe to IW-79. check total depth
1200 stabilization Not achieved.
1225 VOC sample only taken at IW-79. See low flow log for details.
CB

7/11/16

1300 Mobe to IW-115. Check well total depth & begin low flow Sample.
1400 well not stable.
1415 sample for VOC only at MW-115. See low flow sheet for details
1440 Mobe to Boiler Rm to collect equipment, sample bottles and dispose of purge water in designated containers on site.
1500 Mobe to MW-71 TO low flow Sample
1615 Well stable. Sample for full parameters. See low flow log for more details.
1720 Pack up Site and Mobe to boiler room to unload & decon.
1750 equipment blank taken EB-2 @ 17:50 on water level meter. ~~Set~~ CB continue w/ sample chain & packaging for carrier.
1820 carrier on site to pick up samples
1840 RE personnel offsite. SEE secure
Rita in the Rain
CB

report this ad

Fort Smith, AR

Fort Smith Regional

11:03 AM CST on March 09, 2016 [GMT -0600]

Today Forecast

Weather History for KFSM - January, 2016

January Precip Totals: Actual Month Total: 0.89 in | Average Month Total: 2.53 in

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1 Actual: 49° | 28° 0.00 in Average: 49° | 29° 0.09 in	**2** Actual: 51° | 25° 0.00 in Average: 49° | 29° 0.09 in
3 Actual: 55° | 29° 0.00 in Average: 49° | 29° 0.09 in	**4** Actual: 46° | 25° 0.00 in Average: 49° | 29° 0.09 in	**5** Actual: 45° | 27° 0.00 in Average: 49° | 29° 0.09 in	**6** Actual: 45° | 31° T in Average: 49° | 29° 0.09 in	**7** Actual: 52° | 42° 0.35 in Average: 49° | 29° 0.09 in	**8** Actual: 48° | 43° 0.00 in Average: 49° | 29° 0.08 in	**9** Actual: 46° | 29° 0.02 in Average: 49° | 29° 0.09 in
10 Actual: 32° | 19° 0.00 in Average: 49° | 29° 0.08 in	**11** Actual: 48° | 17° 0.00 in Average: 49° | 29° 0.08 in	**12** Actual: 54° | 25° 0.00 in Average: 49° | 29° 0.09 in	**13** Actual: 56° | 27° 0.00 in Average: 49° | 29° 0.09 in	**14** Actual: 65° | 31° 0.00 in Average: 50° | 29° 0.08 in	**15** Actual: 57° | 38° 0.00 in Average: 50° | 29° 0.09 in	**16** Actual: 44° | 26° 0.00 in Average: 50° | 29° 0.09 in
17 Actual: 43° | 21° 0.00 in Average: 50° | 29° 0.10 in	**18** Actual: 40° | 22° 0.00 in Average: 50° | 29° 0.10 in	**19** Actual: 35° | 27° T in Average: 50° | 29° 0.09 in	**20** Actual: 39° | 32° 0.01 in Average: 50° | 29° 0.09 in	**21** Actual: 39° | 32° 0.01 in Average: 50° | 29° 0.09 in	**22** Actual: 44° | 28° 0.00 in Average: 50° | 29° 0.09 in	**23** Actual: 43° | 29° 0.00 in Average: 50° | 29° 0.09 in
24 Actual: 57° | 27° 0.00 in Average: 51° | 29° 0.10 in	**25** Actual: 66° | 37° 0.00 in Average: 51° | 29° 0.09 in	**26** Actual: 51° | 30° 0.00 in Average: 51° | 29° 0.09 in	**27** Actual: 53° | 23° 0.00 in Average: 51° | 29° 0.10 in	**28** Actual: 63° | 28° 0.00 in Average: 51° | 30° 0.09 in	**29** Actual: 75° | 33° 0.00 in Average: 51° | 30° 0.10 in	**30** Actual: 76° | 37° 0.00 in Average: 52° | 30° 0.09 in
31 Actual: 73° | 46° 0.00 in Average: 52° | 30° 0.10 in						

Calendar Legend


Sunny
Clear


Mostly Cloudy


Partly Cloudy


Cloudy


Rain


Snow


Hail Flurries


Thunderstorms


Hazy
Fog


Sleet


'?' denotes
'chance of'


Unknown

report this ad

report this ad

Fort Smith, AR

Fort Smith Regional

9:36 AM CDT on April 06, 2016 [GMT -0500]

Today Forecast

Weather History for KFSM - February, 2016

February Precipitation: Actual Month Total 1.76 in | Average Month Total 2.76 in

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 Actual: 65° | 40° 0.00 in Average: 52° | 30° 0.09 in	**2** Actual: 68° | 41° 0.00 in Average: 52° | 30° 0.10 in	**3** Actual: 49° | 30° 0.00 in Average: 52° | 30° 0.09 in	**4** Actual: 49° | 22° 0.00 in Average: 53° | 31° 0.09 in	**5** Actual: 56° | 24° 0.00 in Average: 53° | 31° 0.10 in	**6** Actual: 57° | 30° 0.00 in Average: 51° | 31° 0.10 in
7 Actual: 62° | 29° 0.00 in Average: 53° | 31° 0.10 in	**8** Actual: 50° | 37° 0.00 in Average: 54° | 31° 0.10 in	**9** Actual: 49° | 29° 0.00 in Average: 54° | 32° 0.10 in	**10** Actual: 62° | 22° 0.00 in Average: 54° | 32° 0.10 in	**11** Actual: 65° | 32° 0.00 in Average: 54° | 32° 0.09 in	**12** Actual: 63° | 30° 0.00 in Average: 55° | 32° 0.10 in	**13** Actual: 51° | 32° 0.00 in Average: 55° | 33° 0.09 in
14 Actual: 40° | 34° T in Average: 55° | 33° 0.10 in	**15** Actual: 62° | 38° T in Average: 55° | 33° 0.09 in	**16** Actual: 63° | 37° 0.00 in Average: 56° | 33° 0.09 in	**17** Actual: 68° | 31° 0.00 in Average: 56° | 34° 0.10 in	**18** Actual: 78° | 39° 0.00 in Average: 56° | 34° 0.11 in	**19** Actual: 78° | 39° 0.00 in Average: 56° | 34° 0.11 in	**20** Actual: 76° | 53° 0.00 in Average: 57° | 35° 0.10 in
21 Actual: 76° | 55° 0.03 in Average: 57° | 35° 0.10 in	**22** Actual: 63° | 46° 0.00 in Average: 58° | 35° 0.11 in	**23** Actual: 50° | 37° 1.73 in Average: 58° | 35° 0.10 in	**24** Actual: 52° | 35° T in Average: 58° | 36° 0.10 in	**25** Actual: 51° | 32° 0.00 in Average: 59° | 36° 0.11 in	**26** Actual: 57° | 26° 0.00 in Average: 59° | 36° 0.10 in	**27** Actual: 72° | 29° 0.00 in Average: 59° | 37° 0.11 in
28 Actual: 67° | 43° 0.00 in Average: 60° | 37° 0.10 in	**29** Actual: 75° | 36° T in Average: 60° | 37° 0.10 in					

Calendar Legend

Sunny / Clear · Mostly Cloudy · Partly Cloudy · Cloudy · Rain · Snow

Hail Flurries · Thunderstorms · Hazy / Fog · Sleet · '?' denotes 'chance of' · Unknown

Appendix C
Risk Calculations and Input Parameters

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C.2 Physical and Chemical Properties
C.3 Soil Moisture Profile for Residential Building (Slab-on-Grade) for Risk Calculations from Groundwater Monitoring Wells
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Attachment C.1: Toxicity Values
Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	Cancer Classification		ADAF			URF ($mg/m^3)^{-1}$			RfC (mg/m^3)			
			Group	Ref	Y/N	f_{oral}	f_{inh}	Value	Ref	Notes	Value	UF	Ref	Notes
VOC	Acetone	67-64-1	ID	1	N						3.1E+01	100	129	111
VOC	Benzene	71-43-2	A	1	N			7.8E-03	1	60	3.0E-02	300	1	
VOC	Bromoform	75-25-2	B2	1	N			1.1E-03	1				126	90
VOC	Bromomethane	74-83-9	ID	126	N						5.0E-03	100	1	
VOC	2-Butanone	78-93-3	ID	1	N						5.0E+00	300	1	
VOC	Carbon Disulfide	75-15-0			N						7.0E-01	30	1	
VOC	Chloroethane	75-00-3	LC	126	N				126	90	1.0E+01	300	1	
VOC	Chloroform	67-66-3	B2	1	N			2.3E-02	1		5.0E-02	100	117	
VOC	Chloromethane	74-87-3	D	1	N						9.0E-02	1,000	1	
VOC	1,1-Dichloroethene	75-35-4	C	1	N						2.0E-01	30	1	
VOC	cis-1,2-Dichloroethene	156-59-2	ID	1	N								1	90
VOC	trans-1,2-Dichloroethene	156-60-5	ID	1	N								1	90
VOC	2-Hexanone	591-78-6	ID	1	N						3.0E-02	3,000	1	
VOC	4-Methyl-2-pentanone	108-10-1	ID	1	N						3.0E+00	300	1	
VOC	Methylene Chloride	75-09-2	LC	1	Y	1	1	1.0E-05	1	159	6.0E-01	30	1	
VOC	Tetrachloroethene	127-18-4	LC	1	N			2.6E-04	1		4.0E-02	1,000	1	
VOC	Toluene	108-88-3	ID	1	N						5.0E+00	10	1	
VOC	Trichloroethene	79-01-6	HC	1	Y	0.202	0.244	4.1E-03	1	159	2.0E-03	100	1	
VOC	Vinyl Chloride	75-01-4	A	1	N			4.4E-03	1	79	1.0E-01	30	1	

Toxicity values were selected following the hierarchy of sources defined by USEPA (Human Health Toxicity Values in Superfund Risk Assessment, 2003), as discussed in Appendix A, Section 4 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision. Values are current as of September 4, 2015.

References

1 USEPA. Integrated Risk Information System (IRIS). On-line database.

117 USEPA. NCEA. 2003. Risk Assessment Issue Paper for: Derivation of Provisional Subchronic and Chronic RfCs for Chloroform [CASRN 67-66-3]. January 23.

126 Provisional Peer Reviewed Toxicity Values for Superfund (PPRTV) Database.

129 ATSDR. 2013. Minimal Risk Levels. March.

Notes:

60 IRIS provides a range of 2.2E-6 to 7.8E-6 (ug/m3)-1 as the inhalation URF for Benzene.

79 For evaluating partial lifetime exposures that include early-life exposure, the unit risk factor is also used in risk calculations that do not prorate the early-life exposure, per USEPA's May 2000 Toxicological Review.

90 Inadequate data exist to derive a toxicity value, according to the indicated reference.

111 Value as published is an MRL in the indicated reference.

159 Because the chemical has a mutagenic mode of action according to USEPA, the SF and URF are adjusted by the following age-dependent adjustment factors (ADAFs) before use: 10 for ages 0 to 2; 3 for ages 2 to 16; and 1 for ages 16 and older (USEPA 2005).

Attachment C.2: Physical and Chemical Properties
Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	H (unitless)				D_{air} (m^2/d)		D_{water} (m^2/d)		HENRY Ref Temp (°C)
			Value	Adjusted	Ref	Notes	Value	Ref	Value	Ref	Value
VOC	Acetone	67-64-1	1.6E-03	1.1E-03	44		1.1E+00	44	9.8E-05	44	2.5E+01
VOC	Benzene	71-43-2	2.3E-01	1.6E-01	44		7.6E-01	44	8.5E-05	44	2.5E+01
VOC	Bromoform	75-25-2	2.2E-02	1.3E-02	44		1.3E-01	44	8.9E-05	44	2.5E+01
VOC	Bromomethane	74-83-9	2.6E-01	2.0E-01	44		6.3E-01	44	1.0E-04	44	2.5E+01
VOC	2-Butanone	78-93-3	2.3E-03	2.0E-03	50.3	123	7.0E-01	69	8.5E-05	69	2.0E+01
VOC	Carbon Disulfide	75-15-0	1.2E+00	9.3E-01	44		9.0E-01	44	8.6E-05	44	2.5E+01
VOC	Chloroethane	75-00-3	4.5E-01	4.1E-01	50.3	123	2.3E+00	69	9.9E-05	69	2.0E+01
VOC	Chloroform	67-66-3	1.5E-01	1.1E-01	44		9.0E-01	44	8.6E-05	44	2.5E+01
VOC	Chloromethane	74-87-3	3.6E-01	3.3E-01	50.1	92, 123	1.1E+00	69	5.6E-05	69	2.0E+01
VOC	1,1-Dichloroethene	75-35-4	1.1E+00	8.1E-01	44		7.8E-01	44	9.0E-05	44	2.5E+01
VOC	cis-1,2-Dichloroethene	156-59-2	1.7E-01	1.2E-01	44		6.4E-01	44	9.8E-05	44	2.5E+01
VOC	trans-1,2-Dichloroethene	156-60-5	3.9E-01	2.8E-01	44		6.1E-01	44	1.0E-04	44	2.5E+01
VOC	2-Hexanone	591-78-6	3.8E-03	3.2E-03	68		7.4E-01	52	7.6E-05	52	2.5E+01
VOC	4-Methyl-2-pentanone	108-10-1	5.6E-03	4.7E-03	50.3	123	6.5E-01	40	6.7E-05	40	2.0E+01
VOC	Methylene Chloride	75-09-2	9.0E-02	6.6E-02	44		8.7E-01	44	1.0E-04	44	2.5E+01
VOC	Tetrachloroethene	127-18-4	7.5E-01	4.9E-01	44		6.2E-01	44	7.1E-05	44	2.5E+01
VOC	Toluene	108-88-3	2.7E-01	1.8E-01	44		7.5E-01	44	7.4E-05	44	2.5E+01
VOC	Trichloroethene	79-01-6	4.2E-01	2.9E-01	44		6.8E-01	44	7.9E-05	44	2.5E+01
VOC	Vinyl Chloride	75-01-4	1.1E+00	9.0E-01	44		9.2E-01	44	1.1E-04	71	2.5E+01

Physical and chemical parameters were selected following the hierarchy of sources used by USEPA (Soil Screening Guidance: Technical Background Document, 1996), as discussed in Appendix A, Section 54 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

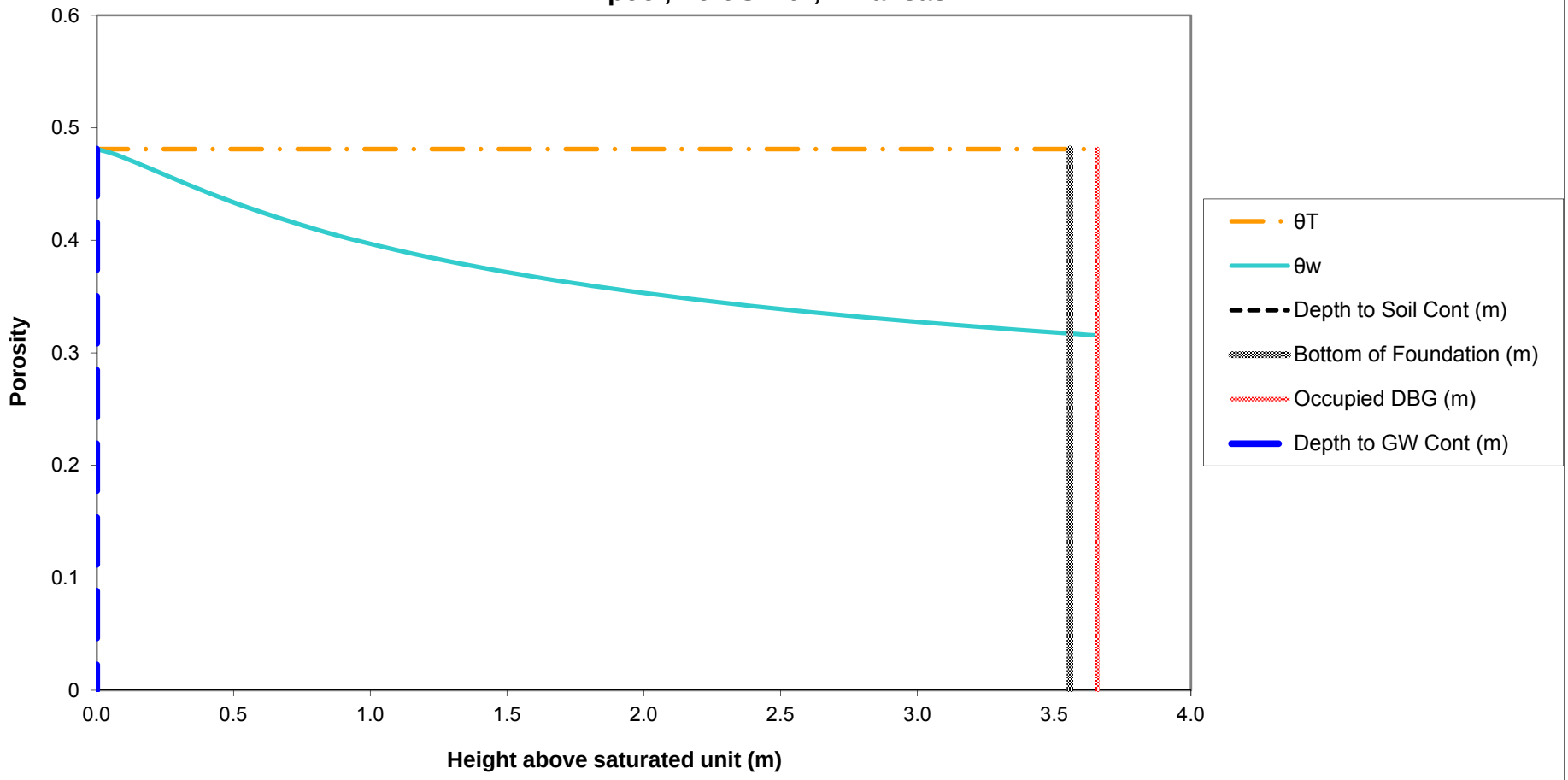
References:

40	Research Triangle Institute, Center for Environmental Analysis. 1995. Supplemental Technical Support Document for Hazardous Waste Identification Rule: Risk Assessment for Human and Ecological Receptors--Volume 1, TABLE A-1. November 1995.
44	USEPA. 1996. Soil Screening Guidance: Technical Background Document and User Guide. Office of Emergency and Remedial Response. EPA/540/R-95/128. May.
50.1	USEPA. 1997. Superfund Chemical Data Matrix (SCDM). Office of Emergency and Remedial Response. September 12.
50.3	USEPA. 20014. Superfund Chemical Data Matrix (SCDM). Office of Superfund Remediation and Technology Innovation. June 20, 2014.
52	USEPA. 1997. CHEM9 Compound Properties Estimation and Data. Version 1.00. Office of Air Quality Planning and Standards. July.
68	PHYSPROP data base. Syracuse Research Corporation.
69	USEPA. 2004. WATER9. Version 2.0.0. Office of Air Quality Planning and Standards. July.
71	USEPA. 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Office of Solid Waste and Emergency Response. OSWER 9355.4-24. December.

Notes:

92	Indicated source cites CHEMFATE.
123	Value has been assigned a default reference temperature.

Attachment C.3: Soil Moisture Profile for Residential Building (Slab-on-Grade) for Risk Calculations from Groundwater Monitoring Wells
Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

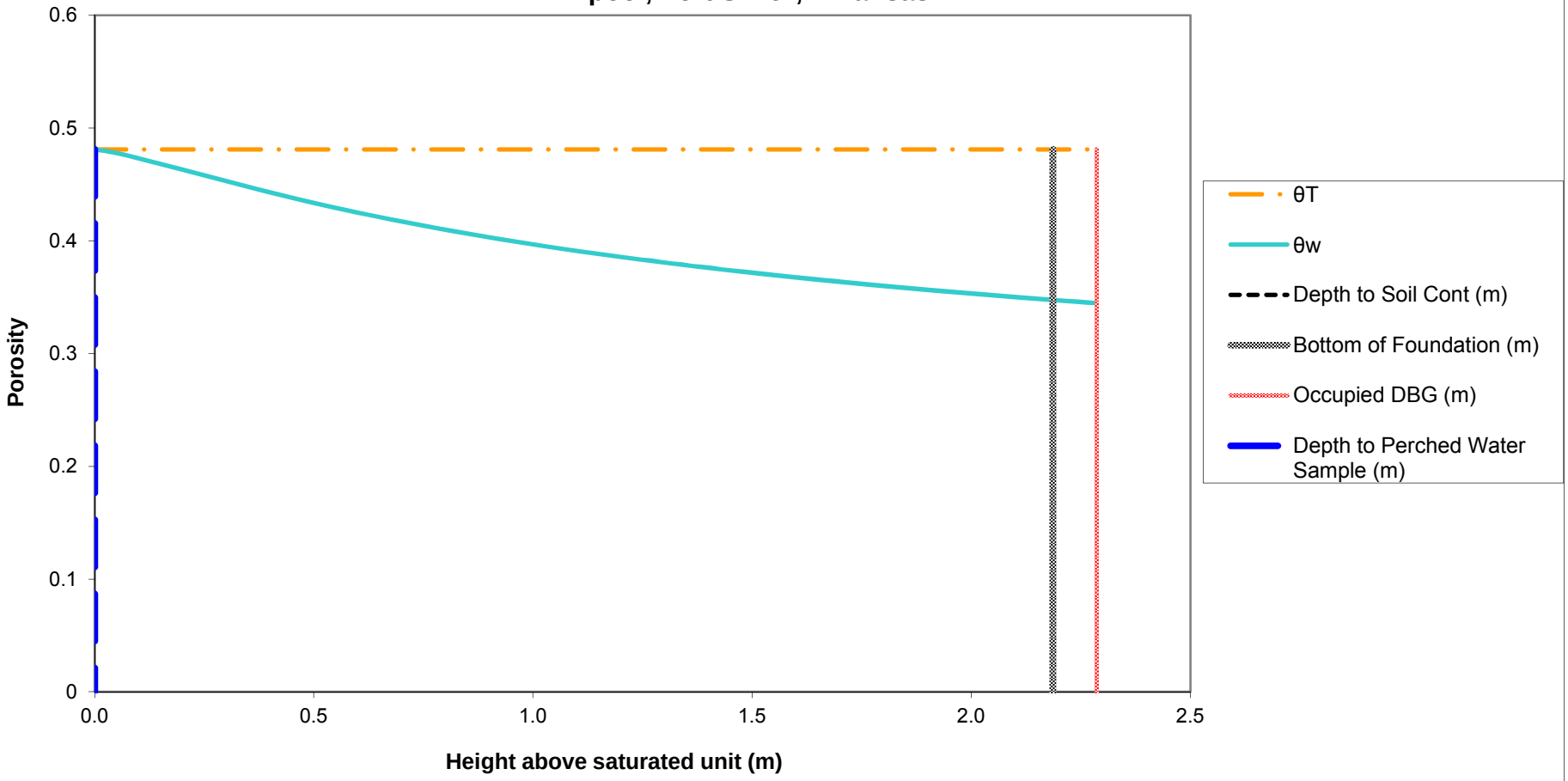
Attachment C.4: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Groundwater Monitoring Wells
Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_{∞}	C_{bldg} (L-water/m^3)
VOC	Acetone	67-64-1	1.07E+00	9.85E-05	1.14E-03	1.72E-01	1.87E-02	6.80E-02	2.73E-03	1.86E-04	2.12E-04
VOC	Benzene	71-43-2	7.60E-01	8.47E-05	1.59E-01	1.22E-01	8.15E-04	3.17E-03	2.73E-03	8.67E-06	1.38E-03
VOC	Bromoform	75-25-2	1.29E-01	8.90E-05	1.34E-02	2.07E-02	1.64E-03	6.37E-03	2.73E-03	1.74E-05	2.33E-04
VOC	Bromomethane	74-83-9	6.29E-01	1.05E-04	2.01E-01	1.01E-01	7.43E-04	2.89E-03	2.73E-03	7.90E-06	1.59E-03
VOC	2-Butanone	78-93-3	6.98E-01	8.47E-05	2.00E-03	1.12E-01	9.94E-03	3.74E-02	2.73E-03	1.02E-04	2.04E-04
VOC	Carbon Disulfide	75-15-0	8.99E-01	8.64E-05	9.26E-01	1.44E-01	2.93E-04	1.14E-03	2.73E-03	3.12E-06	2.89E-03
VOC	Chloroform	67-66-3	8.99E-01	8.64E-05	1.07E-01	1.44E-01	1.11E-03	4.32E-03	2.73E-03	1.18E-05	1.27E-03
VOC	Chloromethane	74-87-3	1.09E+00	5.62E-05	3.33E-01	1.75E-01	4.61E-04	1.80E-03	2.73E-03	4.90E-06	1.63E-03
VOC	1,1-Dichloroethene	75-35-4	7.78E-01	8.99E-05	8.10E-01	1.25E-01	3.12E-04	1.22E-03	2.73E-03	3.32E-06	2.69E-03
VOC	cis-1,2-Dichloroethene	156-59-2	6.36E-01	9.76E-05	1.19E-01	1.02E-01	9.72E-04	3.78E-03	2.73E-03	1.03E-05	1.22E-03
VOC	trans-1,2-Dichloroethene	156-60-5	6.11E-01	1.03E-04	2.81E-01	9.81E-02	5.96E-04	2.32E-03	2.73E-03	6.35E-06	1.79E-03
VOC	4-Methyl-2-pentanone	108-10-1	6.48E-01	6.74E-05	4.71E-03	1.04E-01	4.81E-03	1.84E-02	2.73E-03	5.03E-05	2.37E-04
VOC	Tetrachloroethene	127-18-4	6.22E-01	7.08E-05	4.90E-01	9.99E-02	3.40E-04	1.33E-03	2.73E-03	3.63E-06	1.78E-03
VOC	Toluene	108-88-3	7.52E-01	7.43E-05	1.80E-01	1.21E-01	6.97E-04	2.71E-03	2.73E-03	7.41E-06	1.34E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.88E-01	1.10E-01	5.23E-04	2.04E-03	2.73E-03	5.57E-06	1.60E-03
VOC	Vinyl Chloride	75-01-4	9.16E-01	1.06E-04	9.00E-01	1.47E-01	3.44E-04	1.34E-03	2.73E-03	3.66E-06	3.30E-03
Notes:	**Crack Soil and Building Characteristics**			**Crack Soil**							
	SCS Soil texture class			Sand							
	Bulk density	kg/L	ρ_b	1.66							
	Total porosity	L/L-soil	θ_T	0.375							
	Water-filled porosity	L/L-soil	θ_w	0.054							
	Air-filled porosity	L/L-soil	θ_a	0.321							
	Residual saturation	L/L-soil	θ_r	0.053							
	Hydraulic conductivity	cm/s	**K**	7.4E-03							
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307							
	Density of water	g/cm^3	ρ_w	1.0							
	Gravitational acceleration	cm/s^2	**g**	980.7							
	Intrinsic permeability	cm^2	**k**	9.9E-08							
	Relative saturation	unitless	S_e	0.004							
	van Genuchten N	unitless	**N**	3.177							
	van Genuchten M	unitless	**M**	0.685							
	Relative air permeability	unitless	k_{rg}	0.998							
	Permeability to vapor	cm^2	k_v	9.89E-08							
	Distance from building foundation to source	m	L_{T-gw}	3.56							
	Bldg foundation thickness	m	L_{crack}	0.1							
	Bldg foundation length	m		10.00							
	Bldg foundation width	m		10.00							
	Bldg occupied height	m		2.44							
	Bldg occupied volume	m^3		244.00							
	Occupied depth below ground	m		0.0							
	Bldg area for vapor intrusion	m^2	A_B	100.0							
	Ratio of A_{crack} to A_B		η	4E-04							
	Area of cracks	m^2	A_{crack}	4E-02							
	Air exchange rate	$hour^{-1}$	**ach**	0.45							
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03							
	Pressure difference between outdoors-indoors	kg/m-s^2	ΔP	1.0							
	Viscosity of air	kg/m-s	μ_a	1.8E-05							
	Crack length (bldg perimeter)	m	X_{crack}	40							
	Crack depth below ground	m	Z_{crack}	0.10							
	Crack radius	m	r_{crack}	1E-03							
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20							
	Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.										
	The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.										

Attachment C.5: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Groundwater Monitoring Wells in the Neighborhood Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	Acetone	67-64-1	ID	N	8.14E-02	1.72E-05					3.1E+01	5.4E-07
VOC	Benzene	71-43-2	A	N	8.90E-04	1.23E-06	7.8E-03		3.9E-09		3.0E-02	3.9E-05
VOC	Bromoform	75-25-2	B2	N	1.50E-03	3.49E-07	1.1E-03		1.6E-10			
VOC	Bromomethane	74-83-9	ID	N	5.49E-02	8.72E-05					5.0E-03	1.7E-02
VOC	2-Butanone	78-93-3	ID	N	2.12E-02	4.32E-06					5.0E+00	8.3E-07
VOC	Carbon Disulfide	75-15-0		N	4.70E-03	1.36E-05					7.0E-01	1.9E-05
VOC	Chloroform	67-66-3	B2	N	8.10E-04	1.03E-06	2.3E-02		9.7E-09		5.0E-02	2.0E-05
VOC	Chloromethane	74-87-3	D	N	3.39E-02	5.53E-05					9.0E-02	5.9E-04
VOC	1,1-Dichloroethene	75-35-4	C	N	4.70E-03	1.26E-05					2.0E-01	6.1E-05
VOC	cis-1,2-Dichloroethene	156-59-2	ID	N	1.25E-01	1.53E-04						
VOC	trans-1,2-Dichloroethene	156-60-5	ID	N	9.60E-04	1.71E-06						
VOC	4-Methyl-2-pentanone	108-10-1	ID	N	9.90E-04	2.35E-07					3.0E+00	7.5E-08
VOC	Tetrachloroethene	127-18-4	LC	N	2.80E-04	4.98E-07	2.6E-04		5.3E-11		4.0E-02	1.2E-05
VOC	Toluene	108-88-3	ID	N	3.60E-04	4.81E-07					5.0E+00	9.2E-08
VOC	Trichloroethene	79-01-6	HC	Y	4.32E-01	6.93E-04	4.1E-03	0.2439	1.6E-06		2.0E-03	3.3E-01
VOC	Vinyl Chloride	75-01-4	A	N	1.30E-03	4.29E-06	4.4E-03		2.7E-08		1.0E-01	4.1E-05
							Cumulative Risk:		2E-06		**HI:**	3E-01
Note:												
f_{inh} is the fraction of the inhalation toxicity value that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the 1st Quarter 2016 groundwater samples from wells in the neighborhood are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Attachment C.6: Soil Moisture Profile for Residential Building (Slab-on-Grade) at Soil Vapor Monitoring Point VP-5 (Parcel 1) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

Ramboll Environ

Attachment C.7: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Perched Water at VP-5 (Parcel 1)
Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_{∞}	C_{bldg} (L-water/m^3)
VOC	Acetone	67-64-1	1.07E+00	9.85E-05	1.14E-03	1.68E-01	1.93E-02	1.09E-01	2.73E-03	2.99E-04	3.41E-04
VOC	Benzene	71-43-2	7.60E-01	8.47E-05	1.59E-01	1.19E-01	5.27E-04	3.34E-03	2.73E-03	9.13E-06	1.45E-03
VOC	Bromomethane	74-83-9	6.29E-01	1.05E-04	2.01E-01	9.84E-02	4.84E-04	3.06E-03	2.73E-03	8.37E-06	1.68E-03
VOC	2-Butanone	78-93-3	6.98E-01	8.47E-05	2.00E-03	1.09E-01	9.88E-03	5.91E-02	2.73E-03	1.61E-04	3.23E-04
VOC	Carbon Disulfide	75-15-0	8.99E-01	8.64E-05	9.26E-01	1.41E-01	1.82E-04	1.15E-03	2.73E-03	3.15E-06	2.92E-03
VOC	Chloroethane	75-00-3	2.34E+00	9.94E-05	4.09E-01	3.66E-01	4.73E-04	3.00E-03	2.73E-03	8.19E-06	3.36E-03
VOC	Chloroform	67-66-3	8.99E-01	8.64E-05	1.07E-01	1.41E-01	7.25E-04	4.59E-03	2.73E-03	1.25E-05	1.35E-03
VOC	Chloromethane	74-87-3	1.09E+00	5.62E-05	3.33E-01	1.70E-01	2.88E-04	1.82E-03	2.73E-03	4.98E-06	1.66E-03
VOC	2-Hexanone	591-78-6	7.45E-01	7.57E-05	3.23E-03	1.17E-01	6.19E-03	3.78E-02	2.73E-03	1.03E-04	3.34E-04
VOC	4-Methyl-2-pentanone	108-10-1	6.48E-01	6.74E-05	4.71E-03	1.01E-01	4.12E-03	2.55E-02	2.73E-03	6.97E-05	3.29E-04
VOC	Methylene Chloride	75-09-2	8.73E-01	1.01E-04	6.60E-02	1.37E-01	1.07E-03	6.73E-03	2.73E-03	1.84E-05	1.21E-03
VOC	Toluene	108-88-3	7.52E-01	7.43E-05	1.80E-01	1.18E-01	4.47E-04	2.83E-03	2.73E-03	7.74E-06	1.40E-03

Notes:	Crack Soil and Building Characteristics			Crack Soil
	SCS Soil texture class			Sand
	Bulk density	kg/L	ρ_b	1.66
	Total porosity	L/L-soil	θ_T	0.375
	Water-filled porosity	L/L-soil	θ_w	0.057
	Air-filled porosity	L/L-soil	θ_a	0.318
	Residual saturation	L/L-soil	θ_r	0.053
	Hydraulic conductivity	cm/s	K	7.4E-03
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307
	Density of water	g/cm^3	ρ_w	1.0
	Gravitational acceleration	cm/s^2	g	980.7
	Intrinsic permeability	cm^2	k	9.9E-08
	Relative saturation	unitless	S_e	0.012
	van Genuchten N	unitless	N	3.177
	van Genuchten M	unitless	M	0.685
	Relative air permeability	unitless	k_{rg}	0.992
	Permeability to vapor	cm^2	k_v	9.84E-08
	Distance from building foundation to source	m	L_{T-gw}	2.19
	Bldg foundation thickness	m	L_{crack}	0.1
	Bldg foundation length	m		10.00
	Bldg foundation width	m		10.00
	Bldg occupied height	m		2.44
	Bldg occupied volume	m^3		244.00
	Occupied depth below ground	m		0.0
	Bldg area for vapor intrusion	m^2	A_B	100.0
	Ratio of A_{crack} to A_B		η	4E-04
	Area of cracks	m^2	A_{crack}	4E-02
	Air exchange rate	$hour^{-1}$	ach	0.45
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03
	Pressure difference between outdoors-indoors	$kg/m\text{-}s^2$	ΔP	1.0
	Viscosity of air	kg/m-s	μ_a	1.8E-05
	Crack length (bldg perimeter)	m	X_{crack}	40
	Crack depth below ground	m	Z_{crack}	0.10
	Crack radius	m	r_{crack}	1E-03
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20

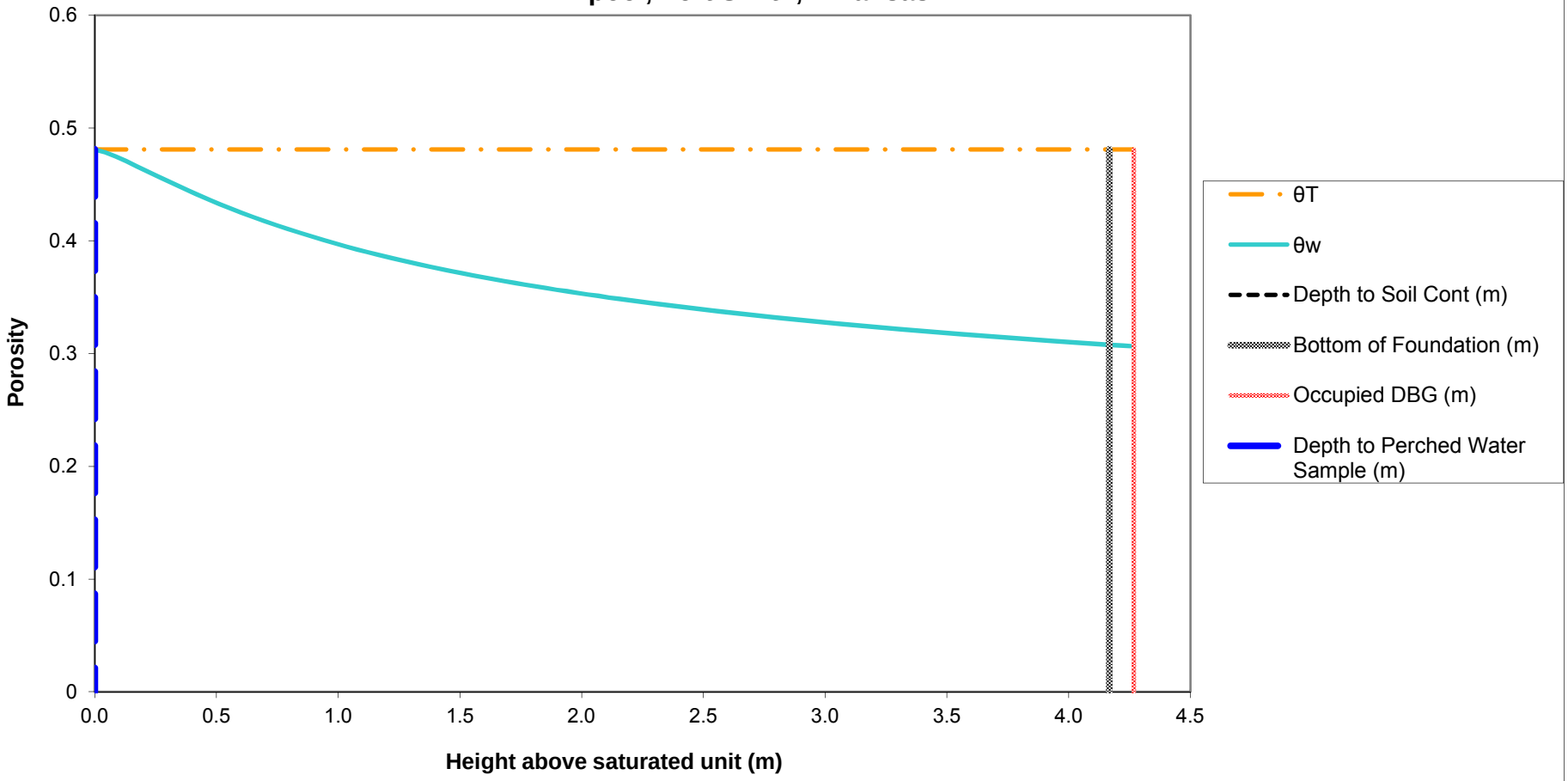
Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.

Attachment C.8: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Perched Water at VP-5 (Parcel 1) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	Acetone	67-64-1	ID	N	1.58E-01	5.39E-05					3.1E+01	1.7E-06
VOC	Benzene	71-43-2	A	N	9.00E-04	1.31E-06	7.8E-03		4.2E-09		3.0E-02	4.2E-05
VOC	Bromomethane	74-83-9	ID	N	4.90E-03	8.24E-06					5.0E-03	1.6E-03
VOC	2-Butanone	78-93-3	ID	N	3.14E-02	1.01E-05					5.0E+00	1.9E-06
VOC	Carbon Disulfide	75-15-0		N	2.20E-04	6.43E-07					7.0E-01	8.8E-07
VOC	Chloroethane	75-00-3	LC	N	2.70E-03	9.06E-06					1.0E+01	8.7E-07
VOC	Chloroform	67-66-3	B2	N	3.50E-04	4.71E-07	2.3E-02		4.5E-09		5.0E-02	9.0E-06
VOC	Chloromethane	74-87-3	D	N	2.80E-03	4.64E-06					9.0E-02	4.9E-05
VOC	2-Hexanone	591-78-6	ID	N	1.16E-02	3.88E-06					3.0E-02	1.2E-04
VOC	4-Methyl-2-pentanone	108-10-1	ID	N	3.40E-03	1.12E-06					3.0E+00	3.6E-07
VOC	Methylene Chloride	75-09-2	LC	Y	7.60E-04	9.22E-07	1.0E-05	1	9.6E-12		6.0E-01	1.5E-06
VOC	Toluene	108-88-3	ID	N	4.60E-04	6.42E-07					5.0E+00	1.2E-07
							Cumulative Risk:		9E-09		**HI:**	2E-03
Note:												
f_{inh} is the fraction of the inhalation toxicity value that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the 1st Quarter 2016 water sample at VP-5 (Parcel 1) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Attachment C.9: Soil Moisture Profile for Residential Building (Slab-on-Grade) at Soil Vapor Monitoring Point VP-6 (Parcel 1) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

Attachment C.10: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Perched Water at VP-6 (Parcel 1)
Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_{∞}	C_{bldg} (L-water/m^3)
VOC	Acetone	67-64-1	1.07E+00	9.85E-05	1.14E-03	1.73E-01	1.89E-02	5.92E-02	2.73E-03	1.62E-04	1.84E-04
VOC	Benzene	71-43-2	7.60E-01	8.47E-05	1.59E-01	1.23E-01	9.37E-04	3.11E-03	2.73E-03	8.50E-06	1.35E-03
VOC	2-Butanone	78-93-3	6.98E-01	8.47E-05	2.00E-03	1.13E-01	1.02E-02	3.28E-02	2.73E-03	8.95E-05	1.79E-04
VOC	Carbon Disulfide	75-15-0	8.99E-01	8.64E-05	9.26E-01	1.45E-01	3.41E-04	1.13E-03	2.73E-03	3.10E-06	2.87E-03
VOC	cis-1,2-Dichloroethene	156-59-2	6.36E-01	9.76E-05	1.19E-01	1.02E-01	1.11E-03	3.68E-03	2.73E-03	1.01E-05	1.19E-03
VOC	4-Methyl-2-pentanone	108-10-1	6.48E-01	6.74E-05	4.71E-03	1.04E-01	5.14E-03	1.68E-02	2.73E-03	4.60E-05	2.17E-04
VOC	Toluene	108-88-3	7.52E-01	7.43E-05	1.80E-01	1.21E-01	8.02E-04	2.67E-03	2.73E-03	7.29E-06	1.31E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.88E-01	1.10E-01	6.04E-04	2.01E-03	2.73E-03	5.49E-06	1.58E-03

Notes:	Crack Soil and Building Characteristics			Crack Soil
	SCS Soil texture class			Sand
	Bulk density	kg/L	ρ_b	1.66
	Total porosity	L/L-soil	θ_T	0.375
	Water-filled porosity	L/L-soil	θ_w	0.054
	Air-filled porosity	L/L-soil	θ_a	0.321
	Residual saturation	L/L-soil	θ_r	0.053
	Hydraulic conductivity	cm/s	K	7.4E-03
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307
	Density of water	g/cm^3	ρ_w	1.0
	Gravitational acceleration	cm/s^2	g	980.7
	Intrinsic permeability	cm^2	k	9.9E-08
	Relative saturation	unitless	S_e	0.003
	van Genuchten N	unitless	N	3.177
	van Genuchten M	unitless	M	0.685
	Relative air permeability	unitless	k_{rg}	0.998
	Permeability to vapor	cm^2	k_v	9.90E-08
	Distance from building foundation to source	m	L_{T-gw}	4.17
	Bldg foundation thickness	m	L_{crack}	0.1
	Bldg foundation length	m		10.00
	Bldg foundation width	m		10.00
	Bldg occupied height	m		2.44
	Bldg occupied volume	m^3		244.00
	Occupied depth below ground	m		0.0
	Bldg area for vapor intrusion	m^2	A_B	100.0
	Ratio of A_{crack} to A_B		η	4E-04
	Area of cracks	m^2	A_{crack}	4E-02
	Air exchange rate	$hour^{-1}$	ach	0.45
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03
	Pressure difference between outdoors-indoors	$kg/m\text{-}s^2$	ΔP	1.0
	Viscosity of air	kg/m-s	μ_a	1.8E-05
	Crack length (bldg perimeter)	m	X_{crack}	40
	Crack depth below ground	m	Z_{crack}	0.10
	Crack radius	m	r_{crack}	1E-03
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20

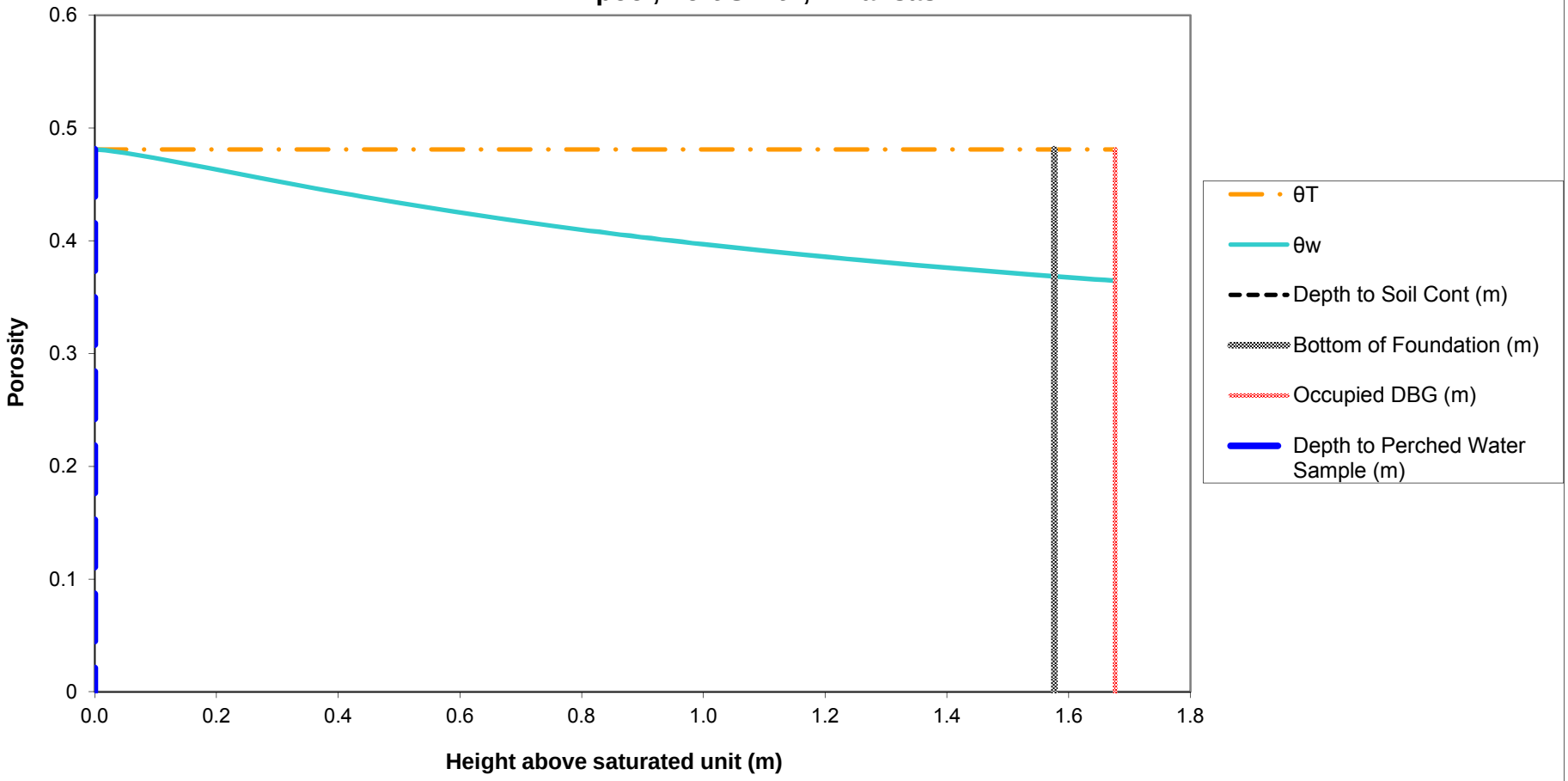
Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.

Attachment C.11: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Perched Water at VP-6 (Parcel 1) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	Acetone	67-64-1	ID	N	4.90E-02	9.03E-06					3.1E+01	2.8E-07
VOC	Benzene	71-43-2	A	N	7.20E-04	9.73E-07	7.8E-03		3.1E-09		3.0E-02	3.1E-05
VOC	2-Butanone	78-93-3	ID	N	6.20E-03	1.11E-06					5.0E+00	2.1E-07
VOC	Carbon Disulfide	75-15-0		N	7.50E-04	2.15E-06					7.0E-01	2.9E-06
VOC	cis-1,2-Dichloroethene	156-59-2	ID	N	2.00E-04	2.39E-07						
VOC	4-Methyl-2-pentanone	108-10-1	ID	N	5.30E-04	1.15E-07					3.0E+00	3.7E-08
VOC	Toluene	108-88-3	ID	N	2.30E-04	3.02E-07					5.0E+00	5.8E-08
VOC	Trichloroethene	79-01-6	HC	Y	1.30E-03	2.06E-06	4.1E-03	0.2439	4.8E-09		2.0E-03	9.9E-04
							Cumulative Risk:		8E-09		**HI:**	1E-03
Note:												
f_{inh} is the fraction of the inhalation toxicity value that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the 1st Quarter 2016 water sample at VP-6 (Parcel 1) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Attachment C.12: Soil Moisture Profile for Residential Building (Slab-on-Grade) at Soil Vapor Monitoring Point VP-7 (Parcel 2) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

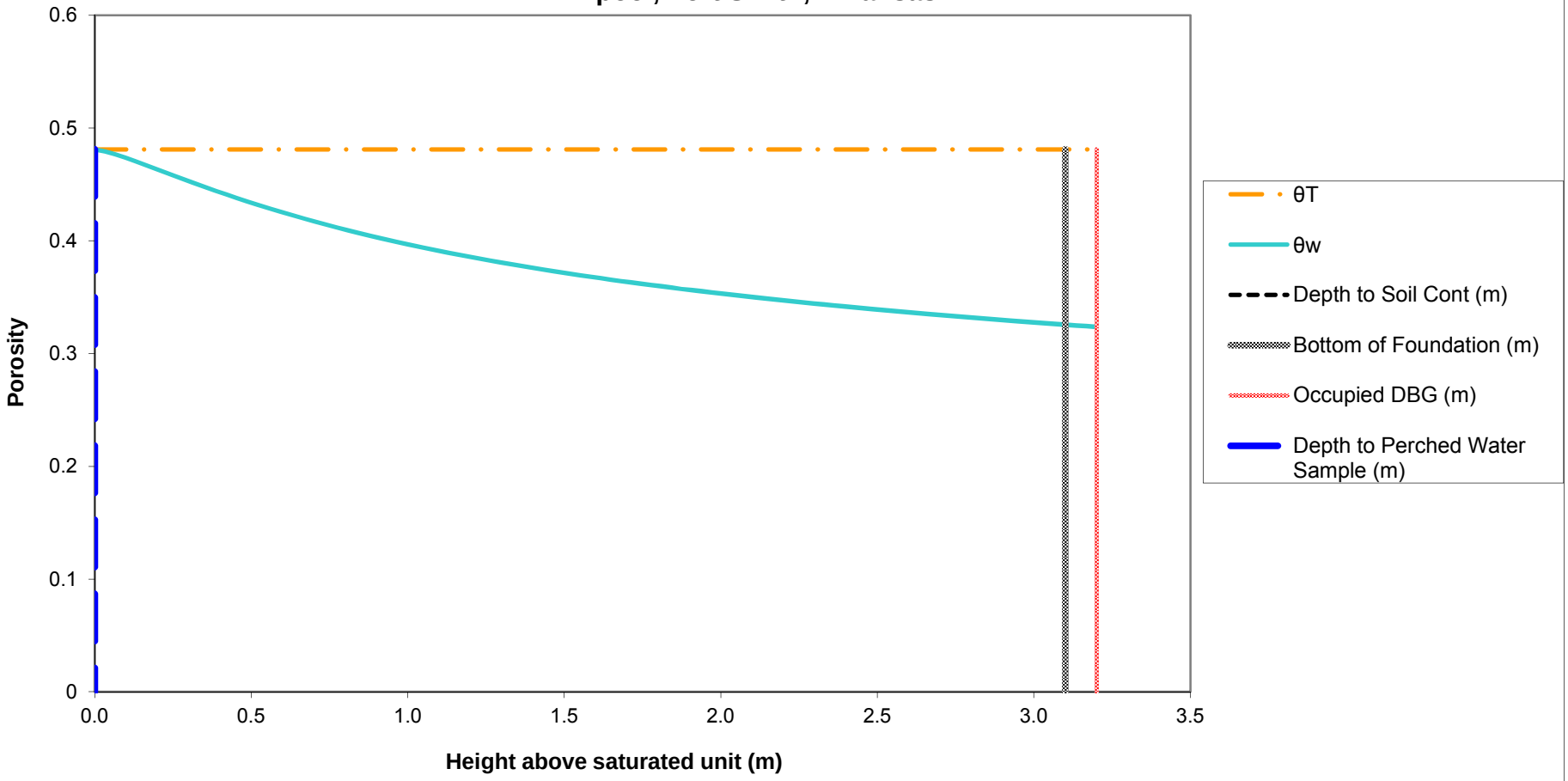
Attachment C.13: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Perched Water at VP-7 (Parcel 2) Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_∞	C_{bldg} (L-water/m^3)
VOC	Acetone	67-64-1	1.07E+00	9.85E-05	1.14E-03	1.61E-01	2.07E-02	1.54E-01	2.73E-03	4.21E-04	4.80E-04
VOC	Benzene	71-43-2	7.60E-01	8.47E-05	1.59E-01	1.14E-01	4.01E-04	3.52E-03	2.73E-03	9.63E-06	1.53E-03
VOC	2-Butanone	78-93-3	6.98E-01	8.47E-05	2.00E-03	1.05E-01	1.04E-02	8.37E-02	2.73E-03	2.29E-04	4.57E-04
VOC	Chloromethane	74-87-3	1.09E+00	5.62E-05	3.33E-01	1.64E-01	2.12E-04	1.87E-03	2.73E-03	5.10E-06	1.70E-03
VOC	4-Methyl-2-pentanone	108-10-1	6.48E-01	6.74E-05	4.71E-03	9.74E-02	3.96E-03	3.37E-02	2.73E-03	9.21E-05	4.34E-04
Notes:	**Crack Soil and Building Characteristics**			**Crack Soil**							
	SCS Soil texture class			Sand							
	Bulk density	kg/L	ρ_b	1.66							
	Total porosity	L/L-soil	θ_T	0.375							
	Water-filled porosity	L/L-soil	θ_w	0.061							
	Air-filled porosity	L/L-soil	θ_a	0.314							
	Residual saturation	L/L-soil	θ_r	0.053							
	Hydraulic conductivity	cm/s	K	7.4E-03							
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307							
	Density of water	g/cm^3	ρ_w	1.0							
	Gravitational acceleration	cm/s^2	g	980.7							
	Intrinsic permeability	cm^2	k	9.9E-08							
	Relative saturation	unitless	S_e	0.023							
	van Genuchten N	unitless	N	3.177							
	van Genuchten M	unitless	M	0.685							
	Relative air permeability	unitless	k_{rg}	0.983							
	Permeability to vapor	cm^2	k_v	9.74E-08							
	Distance from building foundation to source	m	L_{T-gw}	1.58							
	Bldg foundation thickness	m	L_{crack}	0.1							
	Bldg foundation length	m		10.00							
	Bldg foundation width	m		10.00							
	Bldg occupied height	m		2.44							
	Bldg occupied volume	m^3		244.00							
	Occupied depth below ground	m		0.0							
	Bldg area for vapor intrusion	m^2	A_B	100.0							
	Ratio of A_{crack} to A_B		η	4E-04							
	Area of cracks	m^2	A_{crack}	4E-02							
	Air exchange rate	$hour^{-1}$	ach	0.45							
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03							
	Pressure difference between outdoors-indoors	$kg/m\text{-}s^2$	ΔP	1.0							
	Viscosity of air	kg/m-s	μ_a	1.8E-05							
	Crack length (bldg perimeter)	m	X_{crack}	40							
	Crack depth below ground	m	Z_{crack}	0.10							
	Crack radius	m	r_{crack}	1E-03							
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20							
	Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.										
	The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.										

Attachment C.14: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Perched Water at VP-7 (Parcel 2) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	Acetone	67-64-1	ID	N	2.94E-02	1.41E-05					3.1E+01	4.4E-07
VOC	Benzene	71-43-2	A	N	1.70E-04	2.60E-07	7.8E-03		8.3E-10		3.0E-02	8.3E-06
VOC	2-Butanone	78-93-3	ID	N	5.00E-03	2.28E-06					5.0E+00	4.4E-07
VOC	Chloromethane	74-87-3	D	N	2.10E-04	3.57E-07					9.0E-02	3.8E-06
VOC	4-Methyl-2-pentanone	108-10-1	ID	N	8.30E-04	3.60E-07					3.0E+00	1.2E-07
							Cumulative Risk:		8E-10		**HI:**	1E-05
Note:												
f_{inh} is the fraction of the inhalation toxicity value that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the 1st Quarter 2016 water sample at VP-7 (Parcel 2) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Attachment C.15: Soil Moisture Profile for Residential Building (Slab-on-Grade) at Soil Vapor Monitoring Point VP-8 (Parcel 2) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

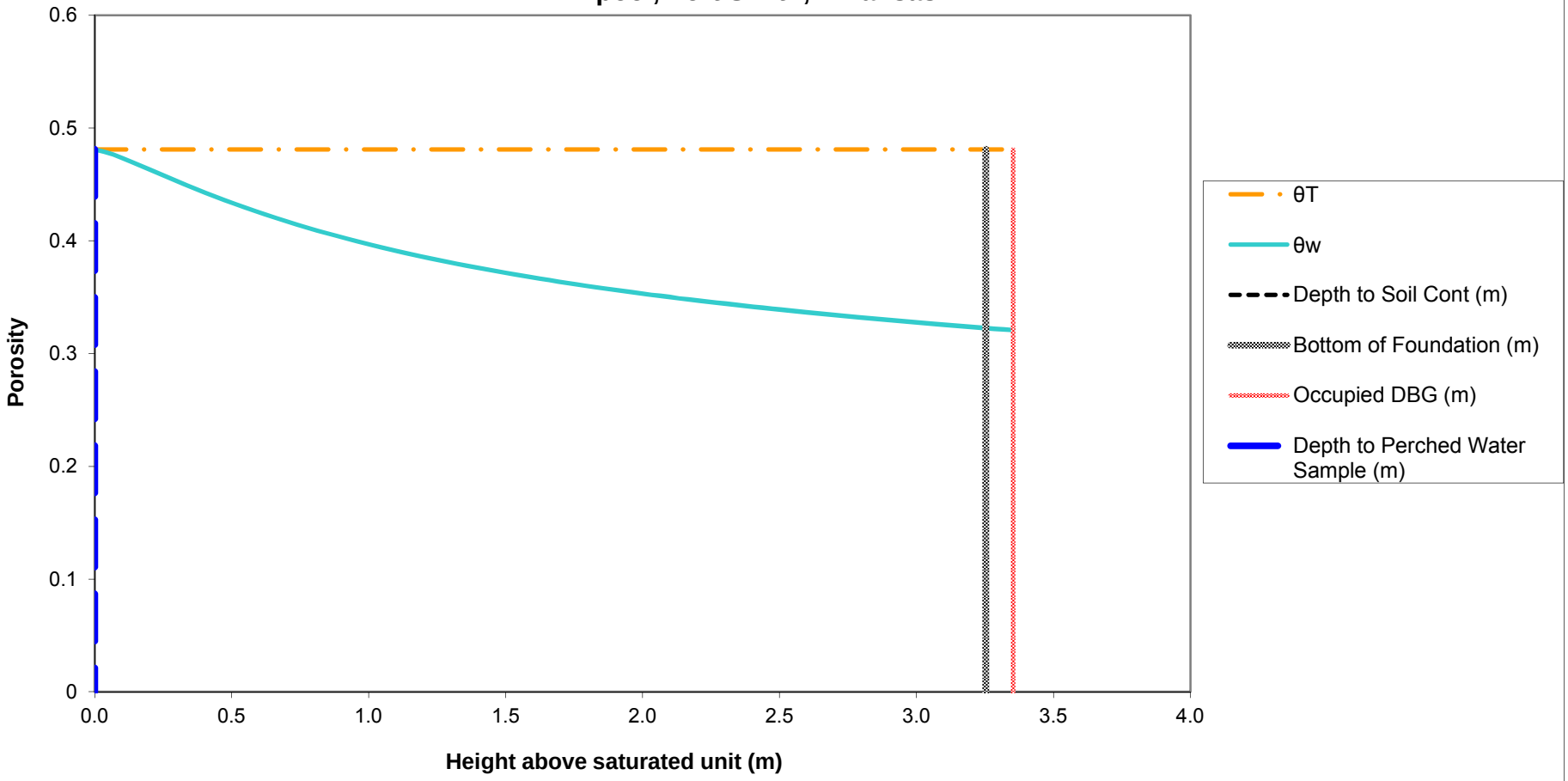
Attachment C.16: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Perched Water at VP-8 (Parcel 2) Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_{∞}	C_{bldg} (L-water/m^3)
VOC	Acetone	67-64-1	1.07E+00	9.85E-05	1.14E-03	1.71E-01	1.87E-02	7.73E-02	2.73E-03	2.11E-04	2.41E-04
VOC	Benzene	71-43-2	7.60E-01	8.47E-05	1.59E-01	1.21E-01	7.17E-04	3.20E-03	2.73E-03	8.74E-06	1.39E-03
VOC	2-Butanone	78-93-3	6.98E-01	8.47E-05	2.00E-03	1.12E-01	9.82E-03	4.21E-02	2.73E-03	1.15E-04	2.30E-04
VOC	Chloromethane	74-87-3	1.09E+00	5.62E-05	3.33E-01	1.74E-01	4.01E-04	1.79E-03	2.73E-03	4.90E-06	1.63E-03
VOC	2-Hexanone	591-78-6	7.45E-01	7.57E-05	3.23E-03	1.19E-01	6.59E-03	2.87E-02	2.73E-03	7.83E-05	2.53E-04
VOC	4-Methyl-2-pentanone	108-10-1	6.48E-01	6.74E-05	4.71E-03	1.04E-01	4.55E-03	2.00E-02	2.73E-03	5.46E-05	2.57E-04
VOC	Toluene	108-88-3	7.52E-01	7.43E-05	1.80E-01	1.20E-01	6.11E-04	2.73E-03	2.73E-03	7.46E-06	1.35E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.88E-01	1.09E-01	4.58E-04	2.05E-03	2.73E-03	5.59E-06	1.61E-03
Notes:	**Crack Soil and Building Characteristics**			**Crack Soil**							
	SCS Soil texture class			Sand							
	Bulk density	kg/L	ρ_b	1.66							
	Total porosity	L/L-soil	θ_T	0.375							
	Water-filled porosity	L/L-soil	θ_w	0.055							
	Air-filled porosity	L/L-soil	θ_a	0.320							
	Residual saturation	L/L-soil	θ_r	0.053							
	Hydraulic conductivity	cm/s	K	7.4E-03							
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307							
	Density of water	g/cm^3	ρ_w	1.0							
	Gravitational acceleration	cm/s^2	g	980.7							
	Intrinsic permeability	cm^2	k	9.9E-08							
	Relative saturation	unitless	S_e	0.005							
	van Genuchten N	unitless	N	3.177							
	van Genuchten M	unitless	M	0.685							
	Relative air permeability	unitless	k_{rg}	0.997							
	Permeability to vapor	cm^2	k_v	9.88E-08							
	Distance from building foundation to source	m	L_{T-gw}	3.10							
	Bldg foundation thickness	m	L_{crack}	0.1							
	Bldg foundation length	m		10.00							
	Bldg foundation width	m		10.00							
	Bldg occupied height	m		2.44							
	Bldg occupied volume	m^3		244.00							
	Occupied depth below ground	m		0.0							
	Bldg area for vapor intrusion	m^2	A_B	100.0							
	Ratio of A_{crack} to A_B		η	4E-04							
	Area of cracks	m^2	A_{crack}	4E-02							
	Air exchange rate	$hour^{-1}$	ach	0.45							
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03							
	Pressure difference between outdoors-indoors	$kg/m\text{-}s^2$	ΔP	1.0							
	Viscosity of air	kg/m-s	μ_a	1.8E-05							
	Crack length (bldg perimeter)	m	X_{crack}	40							
	Crack depth below ground	m	Z_{crack}	0.10							
	Crack radius	m	r_{crack}	1E-03							
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20							
	Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.										
	The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.										

Attachment C.17: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Perched Water at VP-8 (Parcel 2) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	Acetone	67-64-1	ID	N	1.98E-01	4.77E-05					3.1E+01	1.5E-06
VOC	Benzene	71-43-2	A	N	6.80E-04	9.45E-07	7.8E-03		3.0E-09		3.0E-02	3.0E-05
VOC	2-Butanone	78-93-3	ID	N	3.28E-02	7.54E-06					5.0E+00	1.4E-06
VOC	Chloromethane	74-87-3	D	N	3.30E-04	5.38E-07					9.0E-02	5.7E-06
VOC	2-Hexanone	591-78-6	ID	N	8.60E-03	2.18E-06					3.0E-02	7.0E-05
VOC	4-Methyl-2-pentanone	108-10-1	ID	N	7.90E-04	2.03E-07					3.0E+00	6.5E-08
VOC	Toluene	108-88-3	ID	N	4.20E-04	5.65E-07					5.0E+00	1.1E-07
VOC	Trichloroethene	79-01-6	HC	Y	3.20E-03	5.15E-06	4.1E-03	0.2439	1.2E-08		2.0E-03	2.5E-03
							Cumulative Risk:		1E-08		**HI:**	3E-03
Note:												
f_{inh} is the fraction of the inhalation toxicity value that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the 1st Quarter 2016 water sample at VP-8 (Parcel 2) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Attachment C.18: Soil Moisture Profile for Residential Building (Slab-on-Grade) at Soil Vapor Monitoring Point VP-10 (Parcel 3) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

Attachment C.19: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Perched Water at VP-10 (Parcel 3) Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_{∞}	C_{bldg} (L-water/m^3)
VOC	Acetone	67-64-1	1.07E+00	9.85E-05	1.14E-03	1.72E-01	1.87E-02	7.39E-02	2.73E-03	2.02E-04	2.30E-04
VOC	Benzene	71-43-2	7.60E-01	8.47E-05	1.59E-01	1.22E-01	7.54E-04	3.21E-03	2.73E-03	8.77E-06	1.39E-03
VOC	Chloroform	67-66-3	8.99E-01	8.64E-05	1.07E-01	1.44E-01	1.03E-03	4.38E-03	2.73E-03	1.20E-05	1.28E-03
VOC	1,1-Dichloroethene	75-35-4	7.78E-01	8.99E-05	8.10E-01	1.25E-01	2.87E-04	1.22E-03	2.73E-03	3.34E-06	2.71E-03
VOC	cis-1,2-Dichloroethene	156-59-2	6.36E-01	9.76E-05	1.19E-01	1.02E-01	9.03E-04	3.84E-03	2.73E-03	1.05E-05	1.24E-03
VOC	trans-1,2-Dichloroethene	156-60-5	6.11E-01	1.03E-04	2.81E-01	9.78E-02	5.51E-04	2.35E-03	2.73E-03	6.41E-06	1.81E-03
VOC	Methylene Chloride	75-09-2	8.73E-01	1.01E-04	6.60E-02	1.40E-01	1.47E-03	6.25E-03	2.73E-03	1.71E-05	1.13E-03
VOC	Toluene	108-88-3	7.52E-01	7.43E-05	1.80E-01	1.20E-01	6.43E-04	2.74E-03	2.73E-03	7.49E-06	1.35E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.88E-01	1.09E-01	4.82E-04	2.06E-03	2.73E-03	5.62E-06	1.62E-03
VOC	Vinyl Chloride	75-01-4	9.16E-01	1.06E-04	9.00E-01	1.47E-01	3.16E-04	1.35E-03	2.73E-03	3.68E-06	3.31E-03

Notes:	Crack Soil and Building Characteristics			Crack Soil
	SCS Soil texture class			Sand
	Bulk density	kg/L	ρ_b	1.66
	Total porosity	L/L-soil	θ_T	0.375
	Water-filled porosity	L/L-soil	θ_w	0.055
	Air-filled porosity	L/L-soil	θ_a	0.320
	Residual saturation	L/L-soil	θ_r	0.053
	Hydraulic conductivity	cm/s	K	7.4E-03
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307
	Density of water	g/cm^3	ρ_w	1.0
	Gravitational acceleration	cm/s^2	g	980.7
	Intrinsic permeability	cm^2	k	9.9E-08
	Relative saturation	unitless	S_e	0.005
	van Genuchten N	unitless	N	3.177
	van Genuchten M	unitless	M	0.685
	Relative air permeability	unitless	k_{rg}	0.997
	Permeability to vapor	cm^2	k_v	9.89E-08
	Distance from building foundation to source	m	L_{T-gw}	3.25
	Bldg foundation thickness	m	L_{crack}	0.1
	Bldg foundation length	m		10.00
	Bldg foundation width	m		10.00
	Bldg occupied height	m		2.44
	Bldg occupied volume	m^3		244.00
	Occupied depth below ground	m		0.0
	Bldg area for vapor intrusion	m^2	A_B	100.0
	Ratio of A_{crack} to A_B		η	4E-04
	Area of cracks	m^2	A_{crack}	4E-02
	Air exchange rate	$hour^{-1}$	ach	0.45
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03
	Pressure difference between outdoors-indoors	$kg/m\text{-}s^2$	ΔP	1.0
	Viscosity of air	kg/m-s	μ_a	1.8E-05
	Crack length (bldg perimeter)	m	X_{crack}	40
	Crack depth below ground	m	Z_{crack}	0.10
	Crack radius	m	r_{crack}	1E-03
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20

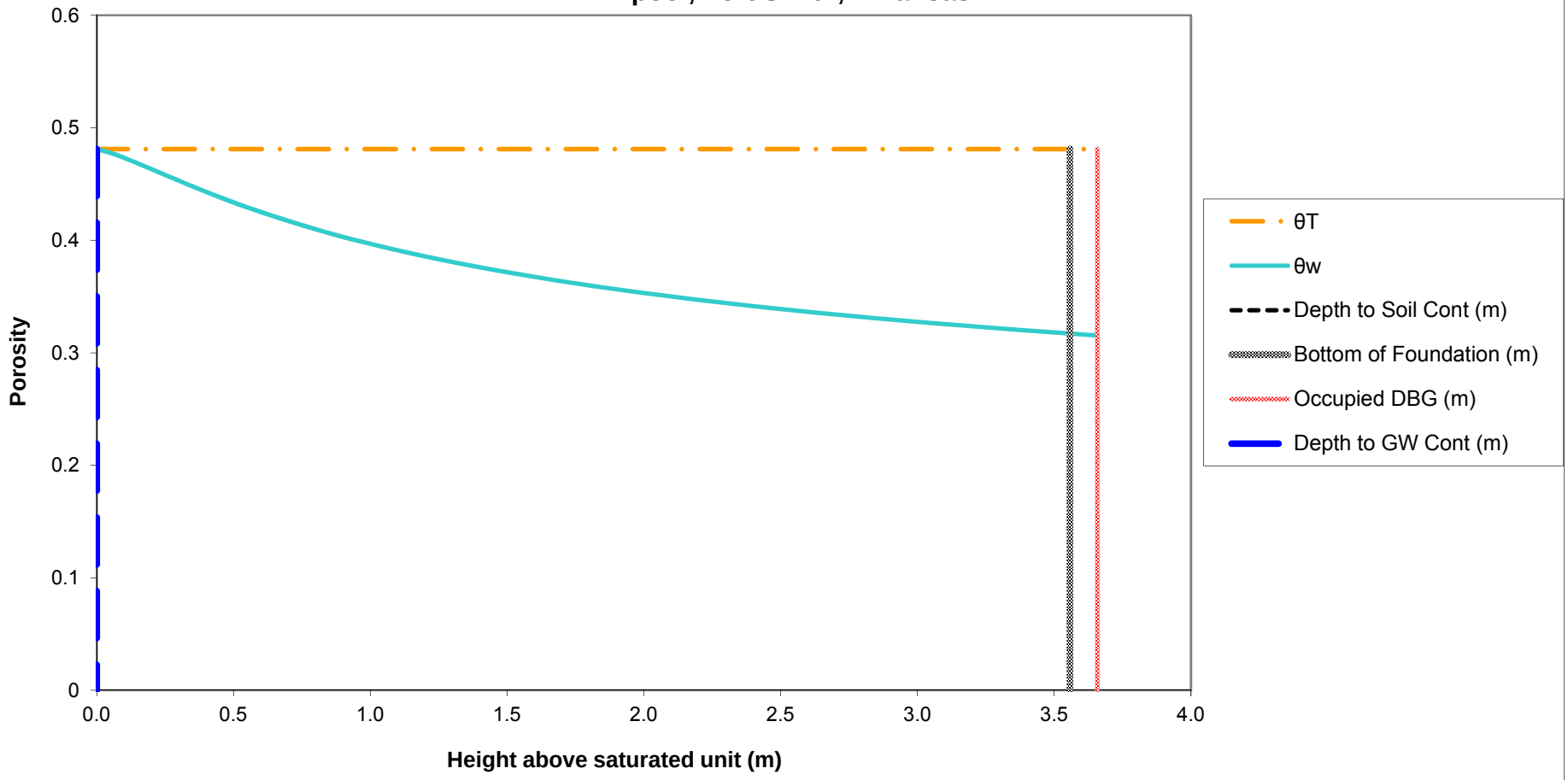
Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.

Attachment C.20: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Perched Water at VP-10 (Parcel 3) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	Acetone	67-64-1	ID	N	4.10E-03	9.43E-07					3.1E+01	2.9E-08
VOC	Benzene	71-43-2	A	N	3.20E-04	4.46E-07	7.8E-03		1.4E-09		3.0E-02	1.4E-05
VOC	Chloroform	67-66-3	B2	N	5.00E-03	6.42E-06	2.3E-02		6.1E-08		5.0E-02	1.2E-04
VOC	1,1-Dichloroethene	75-35-4	C	N	1.00E-03	2.71E-06					2.0E-01	1.3E-05
VOC	cis-1,2-Dichloroethene	156-59-2	ID	N	8.60E-03	1.07E-05						
VOC	trans-1,2-Dichloroethene	156-60-5	ID	N	2.60E-04	4.69E-07						
VOC	Methylene Chloride	75-09-2	LC	Y	9.40E-04	1.06E-06	1.0E-05	1	1.1E-11		6.0E-01	1.7E-06
VOC	Toluene	108-88-3	ID	N	7.70E-04	1.04E-06					5.0E+00	2.0E-07
VOC	Trichloroethene	79-01-6	HC	Y	8.23E-01	1.33E-03	4.1E-03	0.2439	3.1E-06		2.0E-03	6.4E-01
VOC	Vinyl Chloride	75-01-4	A	N	2.70E-04	8.95E-07	4.4E-03		5.6E-09		1.0E-01	8.6E-06
							Cumulative Risk:		3E-06		**HI:**	6E-01
Note:												
f_{inh} is the fraction of the inhalation toxicity value that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the 1st Quarter 2016 water sample at VP-10 (Parcel 3) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Attachment C.21: Soil Moisture Profile for Residential Building (Slab-on-Grade) at Groundwater Monitoring Well MW-176 (Parcel 3) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

Attachment C.22: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Groundwater at MW-176 (Parcel 3)
Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_{∞}	C_{bldg} (L-water/m^3)
VOC	Benzene	71-43-2	7.60E-01	8.47E-05	1.59E-01	1.22E-01	8.15E-04	3.17E-03	2.73E-03	8.67E-06	1.38E-03
VOC	1,1-Dichloroethene	75-35-4	7.78E-01	8.99E-05	8.10E-01	1.25E-01	3.12E-04	1.22E-03	2.73E-03	3.32E-06	2.69E-03
VOC	cis-1,2-Dichloroethene	156-59-2	6.36E-01	9.76E-05	1.19E-01	1.02E-01	9.72E-04	3.78E-03	2.73E-03	1.03E-05	1.22E-03
VOC	trans-1,2-Dichloroethene	156-60-5	6.11E-01	1.03E-04	2.81E-01	9.81E-02	5.96E-04	2.32E-03	2.73E-03	6.35E-06	1.79E-03
VOC	Tetrachloroethene	127-18-4	6.22E-01	7.08E-05	4.90E-01	9.99E-02	3.40E-04	1.33E-03	2.73E-03	3.63E-06	1.78E-03
VOC	Toluene	108-88-3	7.52E-01	7.43E-05	1.80E-01	1.21E-01	6.97E-04	2.71E-03	2.73E-03	7.41E-06	1.34E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.88E-01	1.10E-01	5.23E-04	2.04E-03	2.73E-03	5.57E-06	1.60E-03
VOC	Vinyl Chloride	75-01-4	9.16E-01	1.06E-04	9.00E-01	1.47E-01	3.44E-04	1.34E-03	2.73E-03	3.66E-06	3.30E-03

Notes:	Crack Soil and Building Characteristics			Crack Soil
	SCS Soil texture class			Sand
	Bulk density	kg/L	ρ_b	1.66
	Total porosity	L/L-soil	θ_T	0.375
	Water-filled porosity	L/L-soil	θ_w	0.054
	Air-filled porosity	L/L-soil	θ_a	0.321
	Residual saturation	L/L-soil	θ_r	0.053
	Hydraulic conductivity	cm/s	K	7.4E-03
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307
	Density of water	g/cm^3	ρ_w	1.0
	Gravitational acceleration	cm/s^2	g	980.7
	Intrinsic permeability	cm^2	k	9.9E-08
	Relative saturation	unitless	S_e	0.004
	van Genuchten N	unitless	N	3.177
	van Genuchten M	unitless	M	0.685
	Relative air permeability	unitless	k_{rg}	0.998
	Permeability to vapor	cm^2	k_v	9.89E-08
	Distance from building foundation to source	m	L_{T-gw}	3.56
	Bldg foundation thickness	m	L_{crack}	0.1
	Bldg foundation length	m		10.00
	Bldg foundation width	m		10.00
	Bldg occupied height	m		2.44
	Bldg occupied volume	m^3		244.00
	Occupied depth below ground	m		0.0
	Bldg area for vapor intrusion	m^2	A_B	100.0
	Ratio of A_{crack} to A_B		η	4E-04
	Area of cracks	m^2	A_{crack}	4E-02
	Air exchange rate	$hour^{-1}$	ach	0.45
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03
	Pressure difference between outdoors-indoors	$kg/m\text{-}s^2$	ΔP	1.0
	Viscosity of air	kg/m-s	μ_a	1.8E-05
	Crack length (bldg perimeter)	m	X_{crack}	40
	Crack depth below ground	m	Z_{crack}	0.10
	Crack radius	m	r_{crack}	1E-03
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20

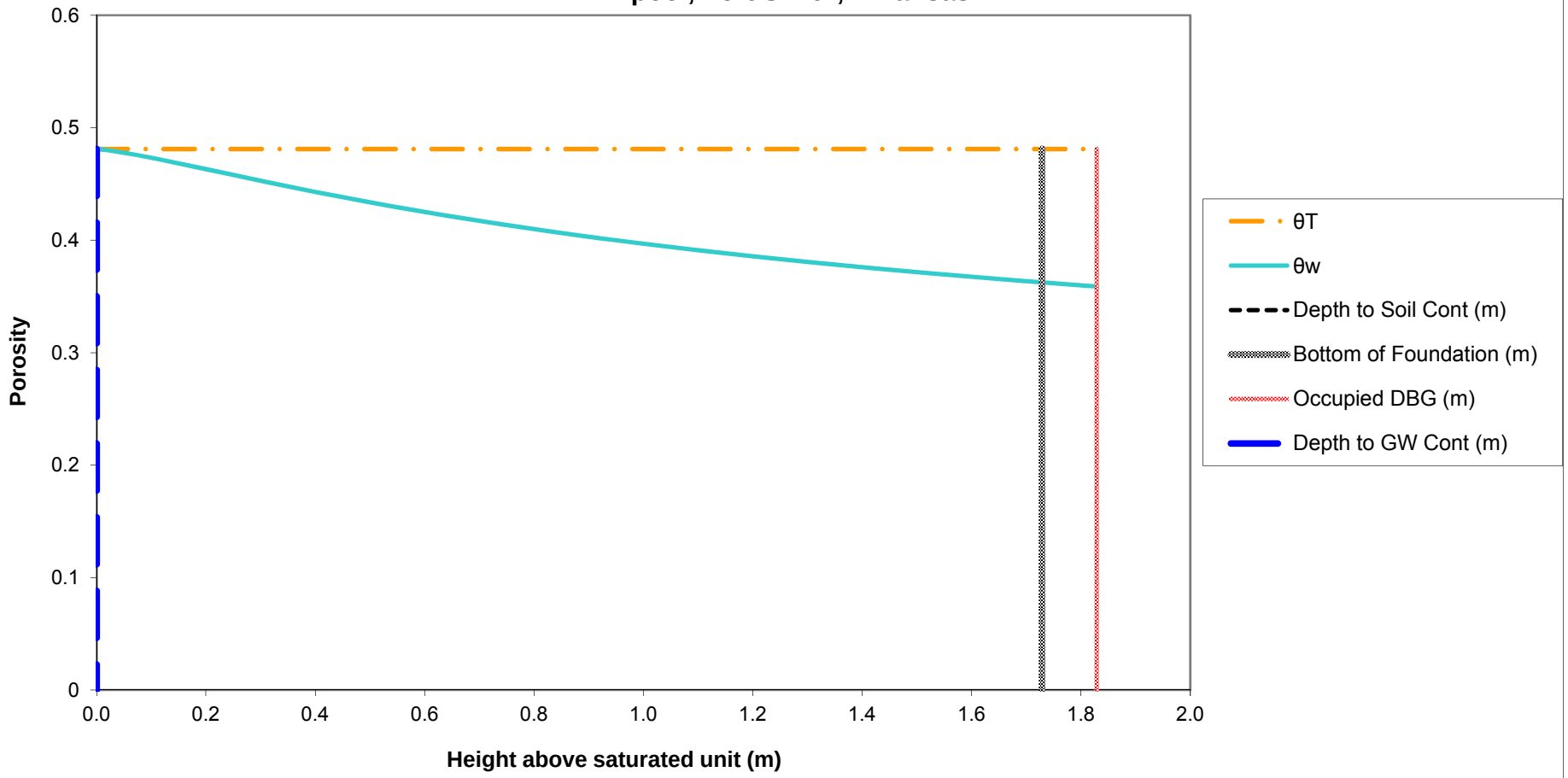
Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.

Attachment C.23: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Groundwater at MW-176 (Parcel 3) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	Benzene	71-43-2	A	N	1.10E-04	1.52E-07	7.8E-03		4.9E-10		3.0E-02	4.8E-06
VOC	1,1-Dichloroethene	75-35-4	C	N	4.70E-03	1.26E-05					2.0E-01	6.1E-05
VOC	cis-1,2-Dichloroethene	156-59-2	ID	N	1.25E-01	1.53E-04						
VOC	trans-1,2-Dichloroethene	156-60-5	ID	N	9.60E-04	1.71E-06						
VOC	Tetrachloroethene	127-18-4	LC	N	1.70E-04	3.02E-07	2.6E-04		3.2E-11		4.0E-02	7.2E-06
VOC	Toluene	108-88-3	ID	N	3.60E-04	4.81E-07					5.0E+00	9.2E-08
VOC	Trichloroethene	79-01-6	HC	Y	3.06E-01	4.91E-04	4.1E-03	0.2439	1.1E-06		2.0E-03	2.4E-01
VOC	Vinyl Chloride	75-01-4	A	N	1.30E-03	4.29E-06	4.4E-03		2.7E-08		1.0E-01	4.1E-05
							Cumulative Risk:		1E-06		**HI:**	2E-01
Note:												
f_{inh} is the fraction of the inhalation toxicity value that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the 1st Quarter 2016 groundwater sample at MW-176 (Parcel 3) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Attachment C.24: Soil Moisture Profile for Residential Building (Slab-on-Grade) at Shallow Groundwater Monitoring Well MW-181 (Parcel 4) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

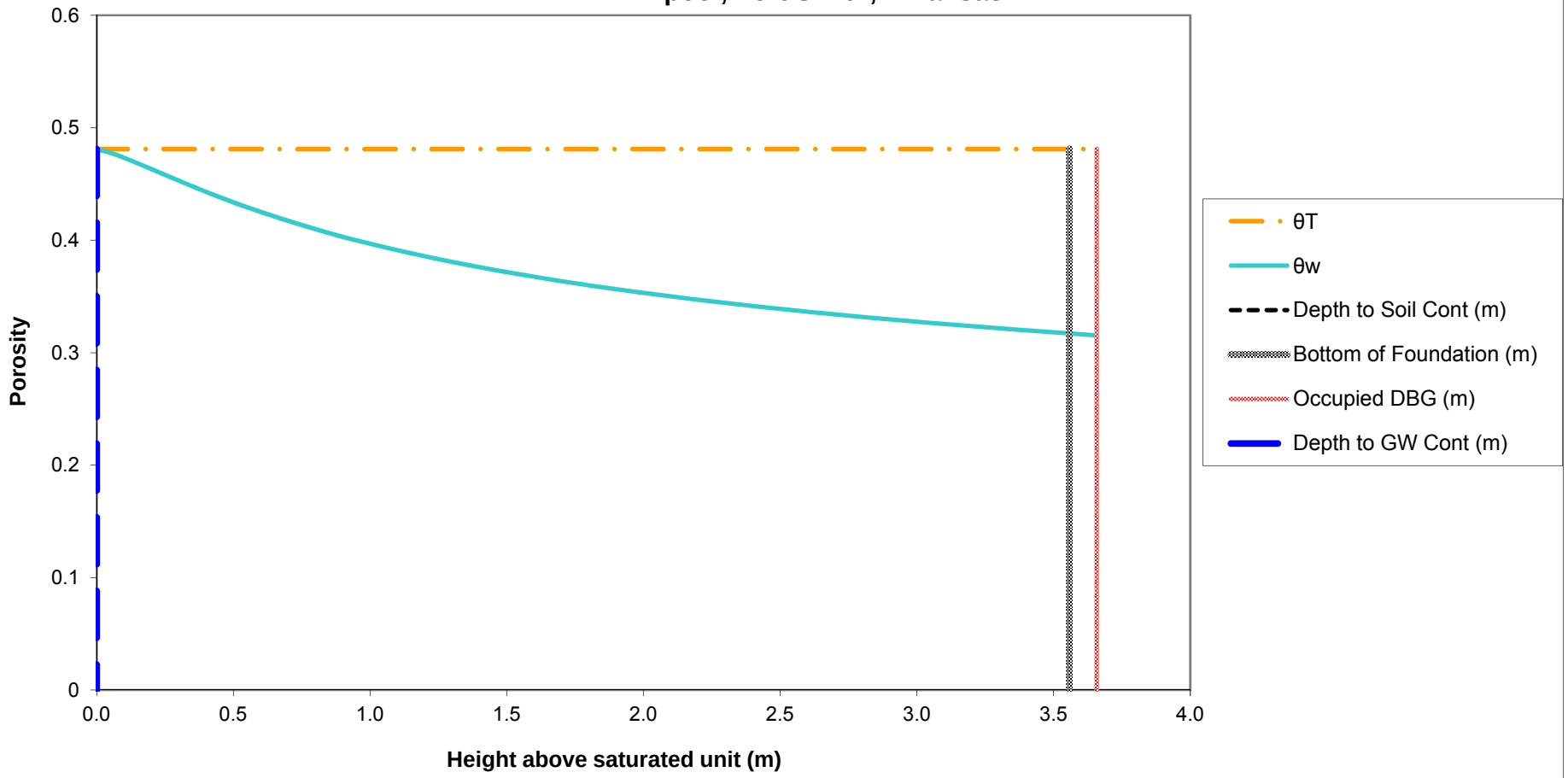
Attachment C.25: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Shallow Groundwater at MW-181 (Parcel 4) Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_∞	C_{bldg} (L-water/m^3)
VOC	Tetrachloroethene	127-18-4	6.22E-01	7.08E-05	4.90E-01	9.48E-02	1.72E-04	1.38E-03	2.73E-03	3.78E-06	1.85E-03
Notes:	**Crack Soil and Building Characteristics**			**Crack Soil**							
	SCS Soil texture class			Sand							
	Bulk density	kg/L	ρ_b	1.66							
	Total porosity	L/L-soil	θ_T	0.375							
	Water-filled porosity	L/L-soil	θ_w	0.059							
	Air-filled porosity	L/L-soil	θ_a	0.316							
	Residual saturation	L/L-soil	θ_r	0.053							
	Hydraulic conductivity	cm/s	K	7.4E-03							
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307							
	Density of water	g/cm^3	ρ_w	1.0							
	Gravitational acceleration	cm/s^2	g	980.7							
	Intrinsic permeability	cm^2	k	9.9E-08							
	Relative saturation	unitless	S_e	0.019							
	van Genuchten N	unitless	N	3.177							
	van Genuchten M	unitless	M	0.685							
	Relative air permeability	unitless	k_{rg}	0.986							
	Permeability to vapor	cm^2	k_v	9.78E-08							
	Distance from building foundation to source	m	L_{T-gw}	1.73							
	Bldg foundation thickness	m	L_{crack}	0.1							
	Bldg foundation length	m		10.00							
	Bldg foundation width	m		10.00							
	Bldg occupied height	m		2.44							
	Bldg occupied volume	m^3		244.00							
	Occupied depth below ground	m		0.0							
	Bldg area for vapor intrusion	m^2	A_B	100.0							
	Ratio of A_{crack} to A_B		η	4E-04							
	Area of cracks	m^2	A_{crack}	4E-02							
	Air exchange rate	$hour^{-1}$	ach	0.45							
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03							
	Pressure difference between outdoors-indoors	$kg/m\text{-}s^2$	ΔP	1.0							
	Viscosity of air	kg/m-s	μ_a	1.8E-05							
	Crack length (bldg perimeter)	m	X_{crack}	40							
	Crack depth below ground	m	Z_{crack}	0.10							
	Crack radius	m	r_{crack}	1E-03							
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20							
	Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.										
	The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.										

Attachment C.26: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Shallow Groundwater at MW-181 (Parcel 4) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	Tetrachloroethene	127-18-4	LC	N	2.80E-04	5.18E-07	2.6E-04		5.5E-11		4.0E-02	1.2E-05
							Cumulative Risk:		6E-11		**HI:**	1E-05
Note:												
f_{inh} is the fraction of the inhalation toxicity value that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the 1st Quarter 2016 groundwater sample at MW-181 (Parcel 4) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Attachment C.27: Soil Moisture Profile for Residential Building (Slab-on-Grade) at Groundwater Monitoring Well MW-71 (Parcel 4) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

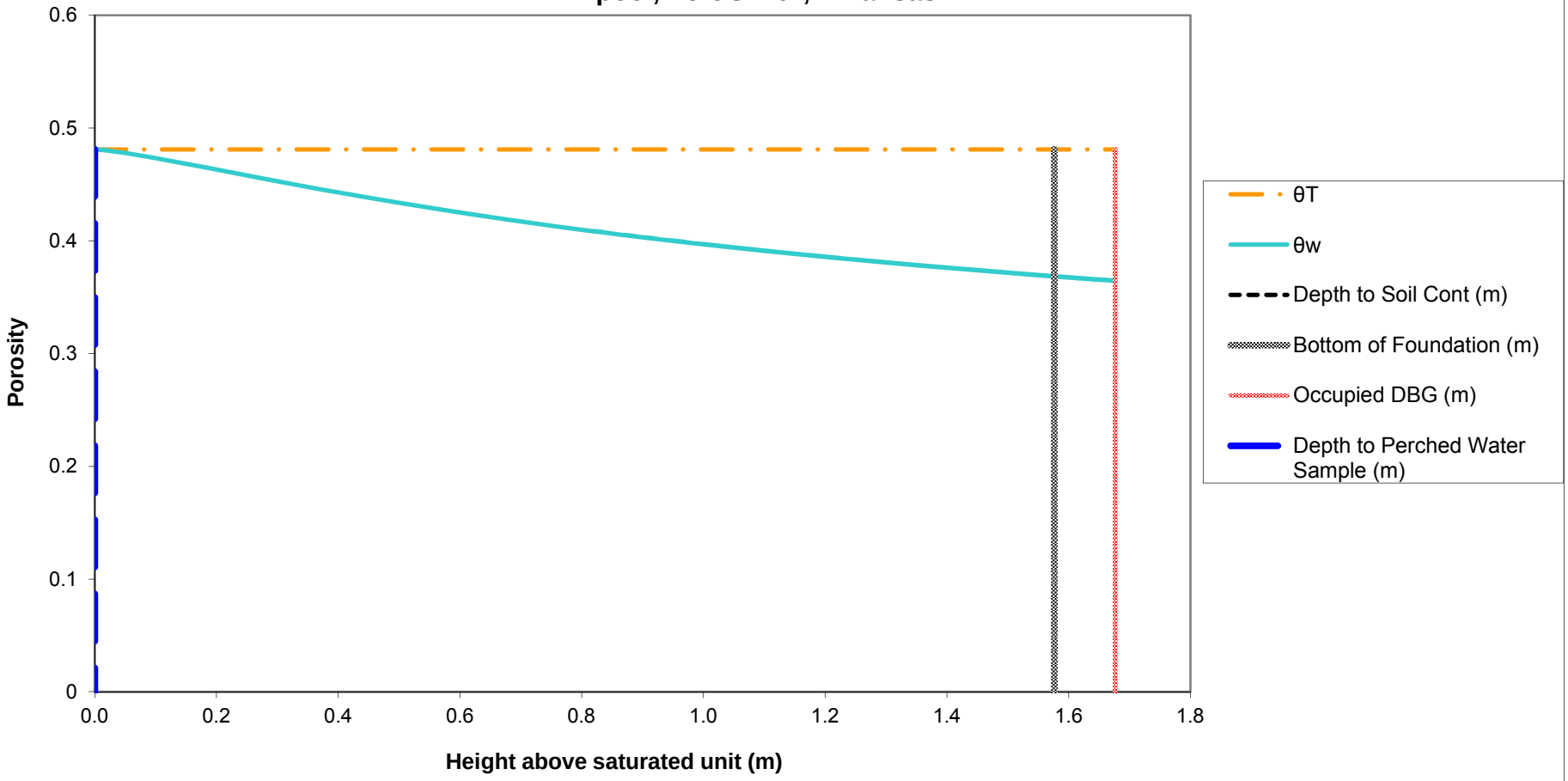
Attachment C.28: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Groundwater at MW-71 (Parcel 4) Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_{∞}	C_{bldg} (L-water/m^3)
VOC	1,1-Dichloroethene	75-35-4	7.78E-01	8.99E-05	8.10E-01	1.25E-01	3.12E-04	1.22E-03	2.73E-03	3.32E-06	2.69E-03
VOC	cis-1,2-Dichloroethene	156-59-2	6.36E-01	9.76E-05	1.19E-01	1.02E-01	9.72E-04	3.78E-03	2.73E-03	1.03E-05	1.22E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.88E-01	1.10E-01	5.23E-04	2.04E-03	2.73E-03	5.57E-06	1.60E-03
VOC	Vinyl Chloride	75-01-4	9.16E-01	1.06E-04	9.00E-01	1.47E-01	3.44E-04	1.34E-03	2.73E-03	3.66E-06	3.30E-03
Notes:	**Crack Soil and Building Characteristics**			**Crack Soil**							
	SCS Soil texture class			Sand							
	Bulk density	kg/L	ρ_b	1.66							
	Total porosity	L/L-soil	θ_T	0.375							
	Water-filled porosity	L/L-soil	θ_w	0.054							
	Air-filled porosity	L/L-soil	θ_a	0.321							
	Residual saturation	L/L-soil	θ_r	0.053							
	Hydraulic conductivity	cm/s	K	7.4E-03							
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307							
	Density of water	g/cm^3	ρ_w	1.0							
	Gravitational acceleration	cm/s^2	g	980.7							
	Intrinsic permeability	cm^2	k	9.9E-08							
	Relative saturation	unitless	S_e	0.004							
	van Genuchten N	unitless	N	3.177							
	van Genuchten M	unitless	M	0.685							
	Relative air permeability	unitless	k_{rg}	0.998							
	Permeability to vapor	cm^2	k_v	9.89E-08							
	Distance from building foundation to source	m	L_{T-gw}	3.56							
	Bldg foundation thickness	m	L_{crack}	0.1							
	Bldg foundation length	m		10.00							
	Bldg foundation width	m		10.00							
	Bldg occupied height	m		2.44							
	Bldg occupied volume	m^3		244.00							
	Occupied depth below ground	m		0.0							
	Bldg area for vapor intrusion	m^2	A_B	100.0							
	Ratio of A_{crack} to A_B		η	4E-04							
	Area of cracks	m^2	A_{crack}	4E-02							
	Air exchange rate	$hour^{-1}$	ach	0.45							
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03							
	Pressure difference between outdoors-indoors	kg/m-s^2	ΔP	1.0							
	Viscosity of air	kg/m-s	μ_a	1.8E-05							
	Crack length (bldg perimeter)	m	X_{crack}	40							
	Crack depth below ground	m	Z_{crack}	0.10							
	Crack radius	m	r_{crack}	1E-03							
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20							
	Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.										
	The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.										

Attachment C.29: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Groundwater at MW-71 (Parcel 4) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	1,1-Dichloroethene	75-35-4	C	N	1.30E-03	3.50E-06					2.0E-01	1.7E-05
VOC	cis-1,2-Dichloroethene	156-59-2	ID	N	6.10E-03	7.47E-06						
VOC	Trichloroethene	79-01-6	HC	Y	1.71E-01	2.74E-04	4.1E-03	0.2439	6.4E-07		2.0E-03	1.3E-01
VOC	Vinyl Chloride	75-01-4	A	N	4.00E-04	1.32E-06	4.4E-03		8.2E-09		1.0E-01	1.3E-05
							Cumulative Risk:		6E-07		**HI:**	1E-01
Note:												
f_{inh} is the fraction of the inhalation toxicity value that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the 1st Quarter 2016 groundwater sample at MW-71 (Parcel 4) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Attachment C.30: Soil Moisture Profile for Residential Building (Slab-on-Grade) at Soil Vapor Monitoring Point VP-15 (Parcel 6) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

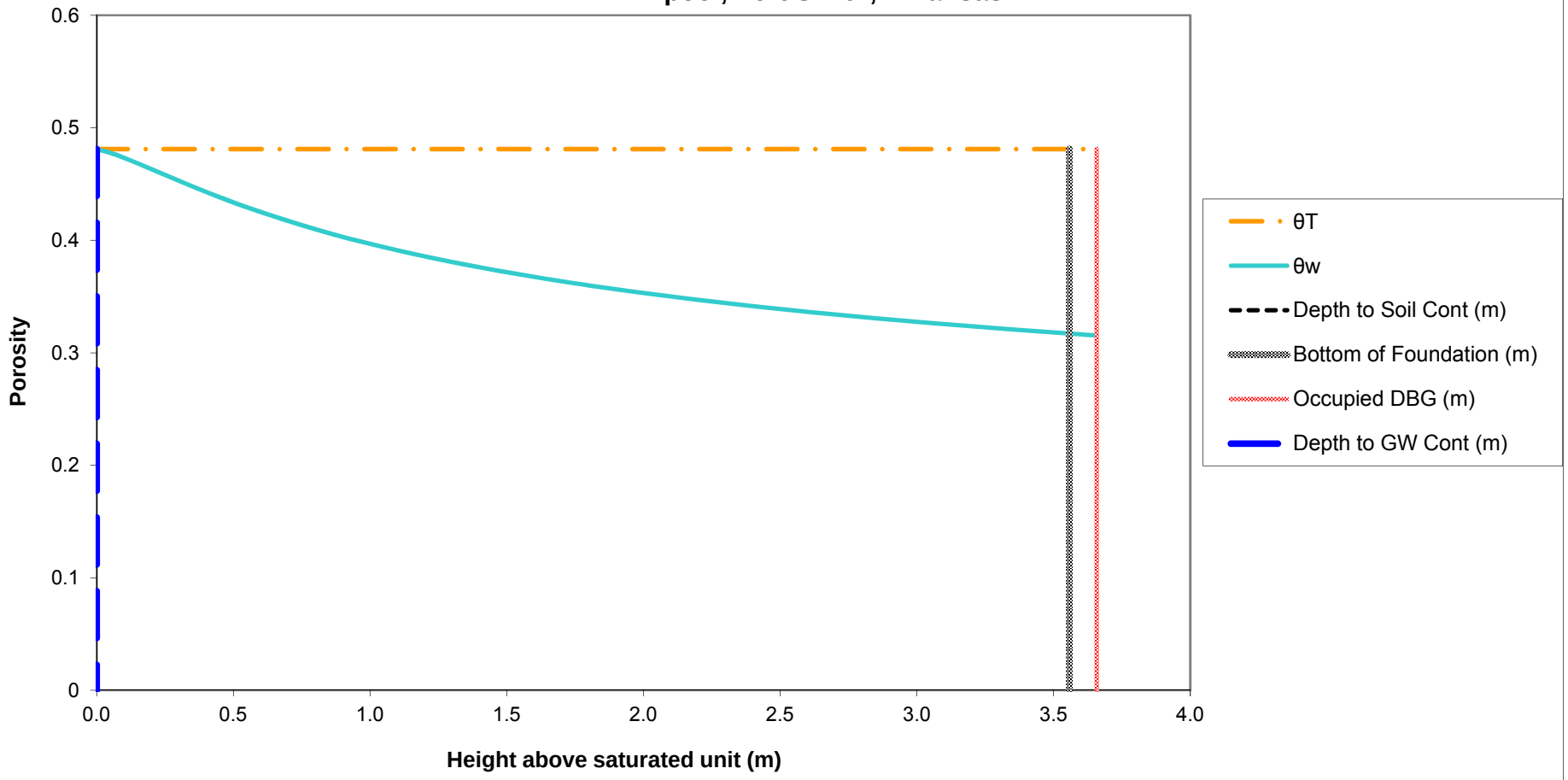
Attachment C.31: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Perched Water at VP-15 (Parcel 6) Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_{∞}	C_{bldg} (L-water/m^3)
VOC	Benzene	71-43-2	7.60E-01	8.47E-05	1.59E-01	1.14E-01	4.01E-04	3.52E-03	2.73E-03	9.63E-06	1.53E-03
Notes:	**Crack Soil and Building Characteristics**			**Crack Soil**							
	SCS Soil texture class			Sand							
	Bulk density	kg/L	ρ_b	1.66							
	Total porosity	L/L-soil	θ_T	0.375							
	Water-filled porosity	L/L-soil	θ_w	0.061							
	Air-filled porosity	L/L-soil	θ_a	0.314							
	Residual saturation	L/L-soil	θ_r	0.053							
	Hydraulic conductivity	cm/s	K	7.4E-03							
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307							
	Density of water	g/cm^3	ρ_w	1.0							
	Gravitational acceleration	cm/s^2	g	980.7							
	Intrinsic permeability	cm^2	k	9.9E-08							
	Relative saturation	unitless	S_e	0.023							
	van Genuchten N	unitless	N	3.177							
	van Genuchten M	unitless	M	0.685							
	Relative air permeability	unitless	k_{rg}	0.983							
	Permeability to vapor	cm^2	k_v	9.74E-08							
	Distance from building foundation to source	m	L_{T-gw}	1.58							
	Bldg foundation thickness	m	L_{crack}	0.1							
	Bldg foundation length	m		10.00							
	Bldg foundation width	m		10.00							
	Bldg occupied height	m		2.44							
	Bldg occupied volume	m^3		244.00							
	Occupied depth below ground	m		0.0							
	Bldg area for vapor intrusion	m^2	A_B	100.0							
	Ratio of A_{crack} to A_B		η	4E-04							
	Area of cracks	m^2	A_{crack}	4E-02							
	Air exchange rate	$hour^{-1}$	ach	0.45							
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03							
	Pressure difference between outdoors-indoors	$kg/m\text{-}s^2$	ΔP	1.0							
	Viscosity of air	kg/m-s	μ_a	1.8E-05							
	Crack length (bldg perimeter)	m	X_{crack}	40							
	Crack depth below ground	m	Z_{crack}	0.10							
	Crack radius	m	r_{crack}	1E-03							
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20							
	Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.										
	The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.										

Attachment C.32: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Perched Water at VP-15 (Parcel 6) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	Benzene	71-43-2	A	N	1.10E-03	1.68E-06	7.8E-03		5.4E-09		3.0E-02	5.4E-05
							Cumulative Risk:		5E-09		**HI:**	5E-05
Note:												
f_{inh} is the fraction of the inhalation toxicity value that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the 1st Quarter 2016 water sample at VP-15 (Parcel 6) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Attachment C.33: Soil Moisture Profile for Residential Building (Slab-on-Grade) at Groundwater Monitoring Well MW-55R (Parcel 6) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

Attachment C.34: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Groundwater at MW-55R (Parcel 6) Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_∞	C_{bldg} (L-water/m^3)
VOC	Chloroform	67-66-3	8.99E-01	8.64E-05	1.07E-01	1.44E-01	1.11E-03	4.32E-03	2.73E-03	1.18E-05	1.27E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.88E-01	1.10E-01	5.23E-04	2.04E-03	2.73E-03	5.57E-06	1.60E-03

Notes:	Crack Soil and Building Characteristics			Crack Soil
	SCS Soil texture class			Sand
	Bulk density	kg/L	ρ_b	1.66
	Total porosity	L/L-soil	θ_T	0.375
	Water-filled porosity	L/L-soil	θ_w	0.054
	Air-filled porosity	L/L-soil	θ_a	0.321
	Residual saturation	L/L-soil	θ_r	0.053
	Hydraulic conductivity	cm/s	K	7.4E-03
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307
	Density of water	g/cm^3	ρ_w	1.0
	Gravitational acceleration	cm/s^2	g	980.7
	Intrinsic permeability	cm^2	k	9.9E-08
	Relative saturation	unitless	S_e	0.004
	van Genuchten N	unitless	N	3.177
	van Genuchten M	unitless	M	0.685
	Relative air permeability	unitless	k_{rg}	0.998
	Permeability to vapor	cm^2	k_v	9.89E-08
	Distance from building foundation to source	m	L_{T-gw}	3.56
	Bldg foundation thickness	m	L_{crack}	0.1
	Bldg foundation length	m		10.00
	Bldg foundation width	m		10.00
	Bldg occupied height	m		2.44
	Bldg occupied volume	m^3		244.00
	Occupied depth below ground	m		0.0
	Bldg area for vapor intrusion	m^2	A_B	100.0
	Ratio of A_{crack} to A_B		η	4E-04
	Area of cracks	m^2	A_{crack}	4E-02
	Air exchange rate	$hour^{-1}$	ach	0.45
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03
	Pressure difference between outdoors-indoors	$kg/m\text{-}s^2$	ΔP	1.0
	Viscosity of air	kg/m-s	μ_a	1.8E-05
	Crack length (bldg perimeter)	m	X_{crack}	40
	Crack depth below ground	m	Z_{crack}	0.10
	Crack radius	m	r_{crack}	1E-03
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20

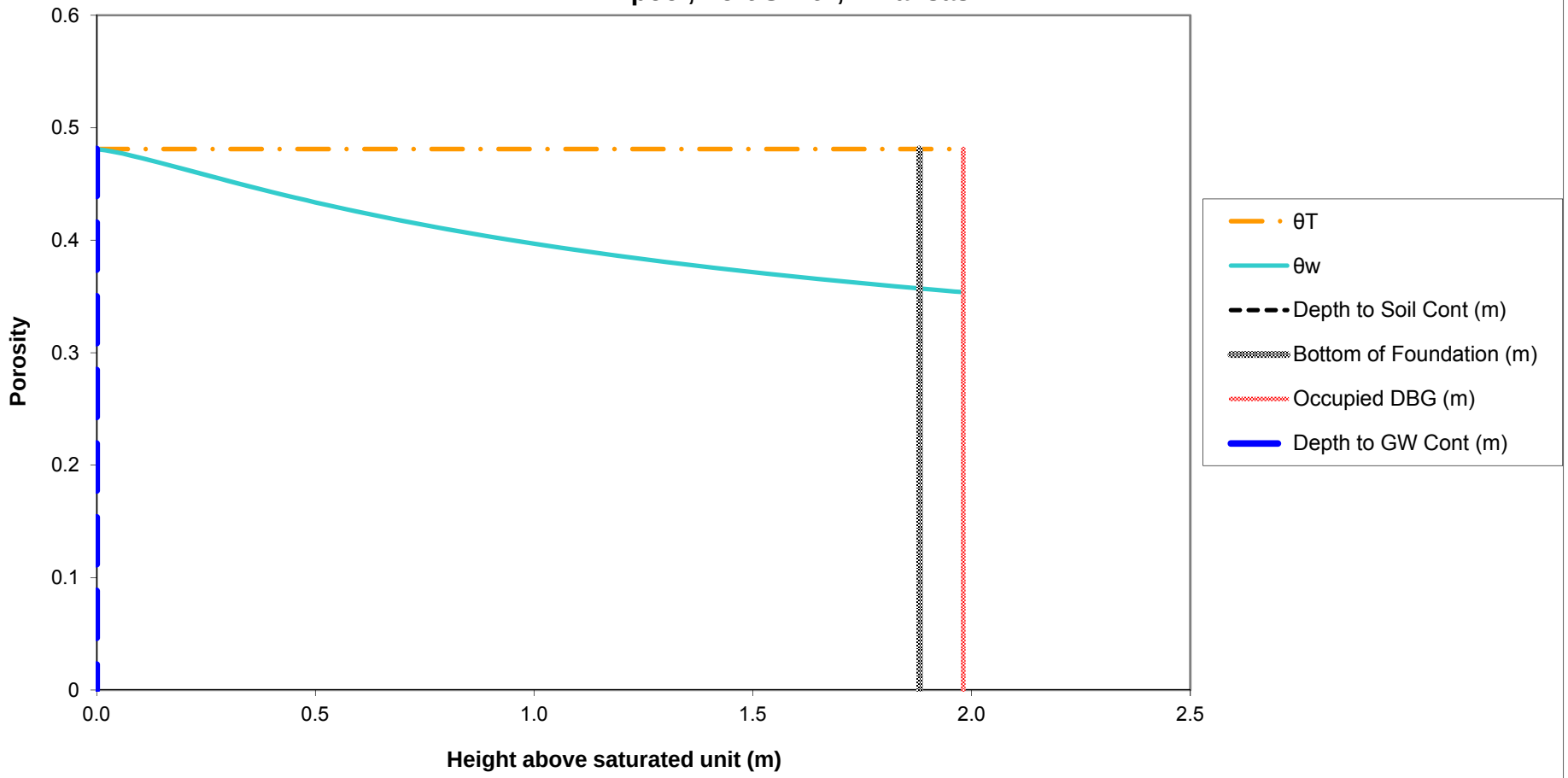
Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.

Attachment C.35: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Groundwater at MW-55R (Parcel 6) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	Chloroform	67-66-3	B2	N	1.50E-04	1.90E-07	2.3E-02		1.8E-09		5.0E-02	3.6E-06
VOC	Trichloroethene	79-01-6	HC	Y	2.60E-04	4.17E-07	4.1E-03	0.2439	9.7E-10		2.0E-03	2.0E-04
							Cumulative Risk:		3E-09		**HI:**	2E-04
Note:												
f_{inh} is the fraction of the inhalation toxicity value that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the 1st Quarter 2016 groundwater sample at MW-55R (Parcel 6) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Attachment C.36: Soil Moisture Profile for Residential Building (Slab-on-Grade) at Shallow Groundwater Monitoring Well MW-180 (Parcel 5) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

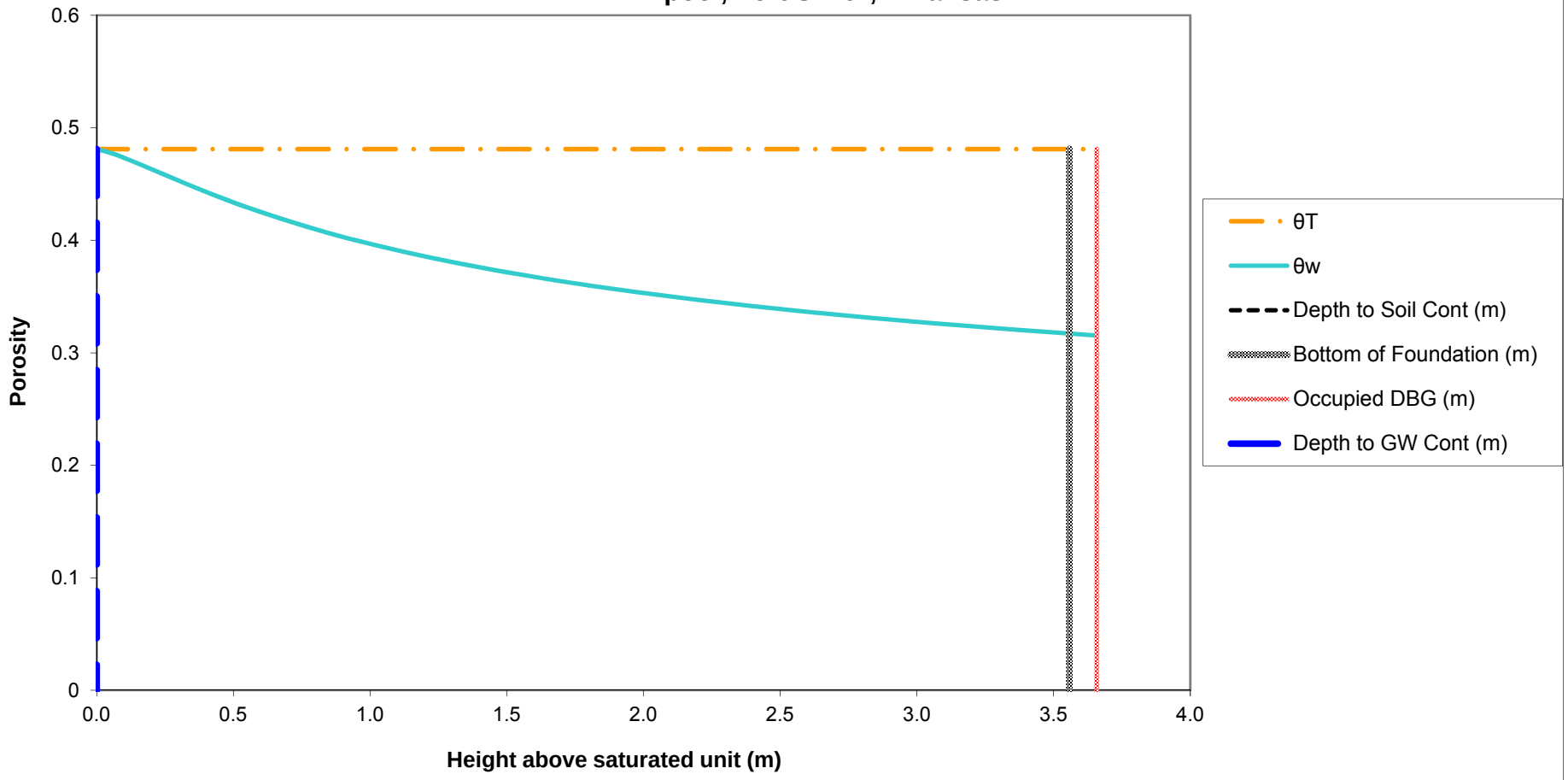
Attachment C.37: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Shallow Groundwater at MW-180 (Parcel 5) Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_{∞}	C_{bldg} (L-water/m^3)
VOC	cis-1,2-Dichloroethene	156-59-2	6.36E-01	9.76E-05	1.19E-01	9.81E-02	5.75E-04	4.22E-03	2.73E-03	1.15E-05	1.37E-03
VOC	trans-1,2-Dichloroethene	156-60-5	6.11E-01	1.03E-04	2.81E-01	9.42E-02	3.39E-04	2.49E-03	2.73E-03	6.81E-06	1.92E-03
VOC	Methylene Chloride	75-09-2	8.73E-01	1.01E-04	6.60E-02	1.35E-01	9.56E-04	7.01E-03	2.73E-03	1.91E-05	1.26E-03
VOC	Tetrachloroethene	127-18-4	6.22E-01	7.08E-05	4.90E-01	9.60E-02	1.87E-04	1.38E-03	2.73E-03	3.77E-06	1.85E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.88E-01	1.05E-01	2.92E-04	2.15E-03	2.73E-03	5.89E-06	1.70E-03
Notes:	**Crack Soil and Building Characteristics**			**Crack Soil**							
	SCS Soil texture class			Sand							
	Bulk density	kg/L	ρ_b	1.66							
	Total porosity	L/L-soil	θ_T	0.375							
	Water-filled porosity	L/L-soil	θ_w	0.058							
	Air-filled porosity	L/L-soil	θ_a	0.317							
	Residual saturation	L/L-soil	θ_r	0.053							
	Hydraulic conductivity	cm/s	K	7.4E-03							
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307							
	Density of water	g/cm^3	ρ_w	1.0							
	Gravitational acceleration	cm/s^2	g	980.7							
	Intrinsic permeability	cm^2	k	9.9E-08							
	Relative saturation	unitless	S_e	0.016							
	van Genuchten N	unitless	N	3.177							
	van Genuchten M	unitless	M	0.685							
	Relative air permeability	unitless	k_{rg}	0.989							
	Permeability to vapor	cm^2	k_v	9.80E-08							
	Distance from building foundation to source	m	L_{T-gw}	1.88							
	Bldg foundation thickness	m	L_{crack}	0.1							
	Bldg foundation length	m		10.00							
	Bldg foundation width	m		10.00							
	Bldg occupied height	m		2.44							
	Bldg occupied volume	m^3		244.00							
	Occupied depth below ground	m		0.0							
	Bldg area for vapor intrusion	m^2	A_B	100.0							
	Ratio of A_{crack} to A_B		η	4E-04							
	Area of cracks	m^2	A_{crack}	4E-02							
	Air exchange rate	$hour^{-1}$	ach	0.45							
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03							
	Pressure difference between outdoors-indoors	$kg/m\text{-}s^2$	ΔP	1.0							
	Viscosity of air	kg/m-s	μ_a	1.8E-05							
	Crack length (bldg perimeter)	m	X_{crack}	40							
	Crack depth below ground	m	Z_{crack}	0.10							
	Crack radius	m	r_{crack}	1E-03							
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20							
	Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.										
	The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.										

Attachment C.38: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Shallow Groundwater at MW-180 (Parcel 5) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	cis-1,2-Dichloroethene	156-59-2	ID	N	1.50E-03	2.05E-06						
VOC	trans-1,2-Dichloroethene	156-60-5	ID	N	2.70E-04	5.18E-07						
VOC	Methylene Chloride	75-09-2	LC	Y	6.30E-04	7.96E-07	1.0E-05	1	8.3E-12		6.0E-01	1.3E-06
VOC	Tetrachloroethene	127-18-4	LC	N	2.50E-04	4.63E-07	2.6E-04		4.9E-11		4.0E-02	1.1E-05
VOC	Trichloroethene	79-01-6	HC	Y	1.06E-02	1.80E-05	4.1E-03	0.2439	4.2E-08		2.0E-03	8.6E-03
							Cumulative Risk:		4E-08		**HI:**	9E-03
Note:												
f_{inh} is the fraction of the inhalation toxicity value that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the 1st Quarter 2016 groundwater sample at MW-180 (Parcel 5) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Attachment C.39: Soil Moisture Profile for Residential Building (Slab-on-Grade) at Groundwater Monitoring Well MW-33R (Parcel 5) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

Attachment C.40: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade)
due to Vapor Intrusion from Groundwater at MW-33R (Parcel 5)
Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_{∞}	C_{bldg} (L-water/m^3)
VOC	Bromoform	75-25-2	1.29E-01	8.90E-05	1.34E-02	2.07E-02	1.64E-03	6.37E-03	2.73E-03	1.74E-05	2.33E-04
VOC	Bromomethane	74-83-9	6.29E-01	1.05E-04	2.01E-01	1.01E-01	7.43E-04	2.89E-03	2.73E-03	7.90E-06	1.59E-03
VOC	Chloroform	67-66-3	8.99E-01	8.64E-05	1.07E-01	1.44E-01	1.11E-03	4.32E-03	2.73E-03	1.18E-05	1.27E-03
VOC	Chloromethane	74-87-3	1.09E+00	5.62E-05	3.33E-01	1.75E-01	4.61E-04	1.80E-03	2.73E-03	4.90E-06	1.63E-03
VOC	1,1-Dichloroethene	75-35-4	7.78E-01	8.99E-05	8.10E-01	1.25E-01	3.12E-04	1.22E-03	2.73E-03	3.32E-06	2.69E-03
VOC	cis-1,2-Dichloroethene	156-59-2	6.36E-01	9.76E-05	1.19E-01	1.02E-01	9.72E-04	3.78E-03	2.73E-03	1.03E-05	1.22E-03
VOC	trans-1,2-Dichloroethene	156-60-5	6.11E-01	1.03E-04	2.81E-01	9.81E-02	5.96E-04	2.32E-03	2.73E-03	6.35E-06	1.79E-03
VOC	Tetrachloroethene	127-18-4	6.22E-01	7.08E-05	4.90E-01	9.99E-02	3.40E-04	1.33E-03	2.73E-03	3.63E-06	1.78E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.88E-01	1.10E-01	5.23E-04	2.04E-03	2.73E-03	5.57E-06	1.60E-03
Notes:	**Crack Soil and Building Characteristics**			**Crack Soil**							
	SCS Soil texture class			Sand							
	Bulk density	kg/L	ρ_b	1.66							
	Total porosity	L/L-soil	θ_T	0.375							
	Water-filled porosity	L/L-soil	θ_w	0.054							
	Air-filled porosity	L/L-soil	θ_a	0.321							
	Residual saturation	L/L-soil	θ_r	0.053							
	Hydraulic conductivity	cm/s	K	7.4E-03							
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307							
	Density of water	g/cm^3	ρ_w	1.0							
	Gravitational acceleration	cm/s^2	g	980.7							
	Intrinsic permeability	cm^2	k	9.9E-08							
	Relative saturation	unitless	S_e	0.004							
	van Genuchten N	unitless	N	3.177							
	van Genuchten M	unitless	M	0.685							
	Relative air permeability	unitless	k_{rg}	0.998							
	Permeability to vapor	cm^2	k_v	9.89E-08							
	Distance from building foundation to source	m	L_{T-gw}	3.56							
	Bldg foundation thickness	m	L_{crack}	0.1							
	Bldg foundation length	m		10.00							
	Bldg foundation width	m		10.00							
	Bldg occupied height	m		2.44							
	Bldg occupied volume	m^3		244.00							
	Occupied depth below ground	m		0.0							
	Bldg area for vapor intrusion	m^2	A_B	100.0							
	Ratio of A_{crack} to A_B		η	4E-04							
	Area of cracks	m^2	A_{crack}	4E-02							
	Air exchange rate	$hour^{-1}$	ach	0.45							
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03							
	Pressure difference between outdoors-indoors	$kg/m\text{-}s^2$	ΔP	1.0							
	Viscosity of air	kg/m-s	μ_a	1.8E-05							
	Crack length (bldg perimeter)	m	X_{crack}	40							
	Crack depth below ground	m	Z_{crack}	0.10							
	Crack radius	m	r_{crack}	1E-03							
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20							
	Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.										
	The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.										

Attachment C.41: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Groundwater at MW-33R (Parcel 5) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	Bromoform	75-25-2	B2	N	3.10E-04	7.21E-08	1.1E-03		3.3E-11			
VOC	Bromomethane	74-83-9	ID	N	1.10E-03	1.75E-06					5.0E-03	3.4E-04
VOC	Chloroform	67-66-3	B2	N	3.00E-04	3.81E-07	2.3E-02		3.6E-09		5.0E-02	7.3E-06
VOC	Chloromethane	74-87-3	D	N	3.70E-04	6.04E-07					9.0E-02	6.4E-06
VOC	1,1-Dichloroethene	75-35-4	C	N	5.40E-04	1.45E-06					2.0E-01	7.0E-06
VOC	cis-1,2-Dichloroethene	156-59-2	ID	N	7.60E-03	9.31E-06						
VOC	trans-1,2-Dichloroethene	156-60-5	ID	N	8.60E-04	1.54E-06						
VOC	Tetrachloroethene	127-18-4	LC	N	1.30E-04	2.31E-07	2.6E-04		2.5E-11		4.0E-02	5.5E-06
VOC	Trichloroethene	79-01-6	HC	Y	7.24E-01	1.16E-03	4.1E-03	0.2439	2.7E-06		2.0E-03	5.6E-01
							Cumulative Risk:		3E-06		**HI:**	6E-01
Note:												
f_{inh} is the fraction of the inhalation toxicity value that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the 1st Quarter 2016 groundwater sample at MW-33R (Parcel 5) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

TABLE 1
THICKNESS OF SATURATED SOILS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Ground Elevation	Top of Saturated Soils	Bottom of Saturated Soils	Saturated Soil Interval
North Plume				
IW-72	472.2	450.2	446.4	3.8
IW-73	472.1	NA[2]	NA[2]	NA[2]
IW-74	472.3	454.3	446.3	8.0
IW-75	472.8	NA[2]	NA[2]	NA[2]
IW-76	473.2	NA[2]	NA[2]	NA[2]
IW-77	473.8	454.8	445.8	9.0
IW-78	474.2	NA[2]	NA[2]	NA[2]
IW-79	474.1	NA[2]	NA[2]	NA[2]
IW-80	473.7	454.7	446.7	8.0
MW-23	475.8	453.8	447.8	6.0
MW-24	476.6	453.6	447.1	6.5
MW-27	475.7	451.7	447.4	4.3
MW-28	470.6	447.1	445.9	1.2
MW-31	476.1	448.1	447.1	1.0
MW-32	475.7	NA[2]	NA[2]	NA[2]
MW-33	474.9	NA[2]	NA[2]	NA[2]
MW-35R	474.0	NA[2]	NA[2]	NA[2]
MW-36	473.4	NA[2]	NA[2]	NA[2]
MW-39	475.6	450.1	447.6	2.5
MW-40	473.4	450.1	447.1	3.0
MW-41	472.3	453.3	445.8	7.5
MW-42B	471.8	449.8	446.3	3.5
MW-43	471.0	451.0	446.3	4.7
MW-46R	466.5	450.5	445.8	4.7
MW-50	463.2	451.2	445.6	5.6
MW-55	465.5	447.5	446.8	0.7
MW-56	463.4	445.4	444.9	0.5
MW-57	463.1	447.1	446.5	0.6
MW-58	462.9	446.3	445.9	0.4
MW-60	461.0	447.2	445.6	1.6[3]
MW-61	459.8	445.5	444.7	0.8[3]
MW-62	464.5	446.0	444.2	1.8
MW-63	464.0	444.7	444.5	0.2[3]
MW-65	474.1	453.6	445.7	7.9
MW-66	462.7	450.7	446.5	4.2[3]
MW-67	459.4	448.4	445.2	3.2[3]
MW-68	470.0	448.0	446.5	1.5
MW-70	471.7	NA[2]	NA[2]	NA[2]
MW-71	471.5	NA[2]	NA[2]	NA[2]
RW-69	471.5	449.5	445.5	4.0
			Average Thickness (feet)	**3.7**
South Plume				
ITMW-1	474.6	450.6	444.1	6.5
ITMW-10	478.6	451.6	446.1	5.5
ITMW-11	474.0	457.5	444.5	13.0
ITMW-12	474.7	456.7	444.7	12.0
ITMW-13	475.4	450.4	446.4	4.0

TABLE 1
THICKNESS OF SATURATED SOILS
Whirlpool Facility - Fort Smith, Arkansas

Well ID	Ground Elevation	Top of Saturated Soils	Bottom of Saturated Soils	Saturated Soil Interval
ITMW-14	475.7	455.7	445.7	10.0
ITMW-15	474.8	454.0	444.8	9.2
ITMW-16	476.5	458.5	445.3	13.2
ITMW-17	476.1	454.1	447.1	7.0
ITMW-18	473.9	457.9	444.9	13.0
ITMW-19	474.3	457.8	445.3	12.5
ITMW-2	475.1	457.1	445.6	11.5
ITMW-20	475.7	453.2	447.4	5.8
ITMW-21	474.4	449.4	446.4	3.0
ITMW-3	472.8	451.6	444.6	7.0
ITMW-4	477.6	458.1	447.1	11.0
ITMW-5	476.6	452.1	446.1	6.0
ITMW-6	481.1	455.4	445.6	9.8
ITMW-7	479.7	NA[2]	NA[2]	NA[2]
ITMW-9	479.5	460.2	446.3	13.9
MW-22	473.9	450.9	449.9	1.0
MW-25	474.7	446.7	445.0	1.8
MW-26	476.1	451.1	446.9	4.2
MW-29	475.1	452.1	447.1	5.0
MW-30	479.2	446.7	443.7	3.0
MW-37	474.0	457.0	445.5	11.5
MW-38	474.9	NA[2]	NA[2]	NA[2]
MW-92	473.9	451.9	444.9	7.0
MW-93	478.0	456.0	443.5	12.5
MW-94	478.0	455.0	445.0	10.0
MW-95	478.0	452.0	445.0	7.0
MW-172	473.4	459.4	445.8	13.6
			Average Thickness (feet)	**8.3**
NE Corner Plume				
MW-87	471.0	451.0	447.8	3.2
MW-88	469.1	453.6	449.1	4.5
MW-89	467.1	451.6	449.5	2.1
MW-90	467.0	452.0	447.0	5.0
MW-91	469.2	451.7	449.2	2.5
MW-96	458.3	449.8	444.0	5.8
MW-97	459.9	451.9	445.9	6.0
MW-98	462.0	451.0	444.4	6.6
MW-99	467.1	449.3	445.1	4.2
			Average Thickness (feet)	**4.4**

Notes:

1. Saturated thickness calculated from soil description in boring log.
2. NA - Boring log not available
3. No saturated soil observation recorded in boring log during drilling. Interval inferred based on soil description.

RAMBOLL ENVIRON

TABLE 2
ESTIMATED QUANTITY OF TCE IN GROUNDWATER
Whirlpool Facility - Fort Smith, Arkansas

GROUNDWATER	Volume of Water						TCE Concentration		Mass of TCE		Volume of TCE	
Date	Plume Area (Square Feet)	Saturated Thickness (Feet)	Total Porosity[2]	Plume Area (Cubic Feet)	Gallons	Liters	Estimated Avg. Min. Concentration Assumed to be Present Throughout the Respective Section of Plume (µg/L)	Estimated Avg. Max. Concentration Assumed to be Present Throughout the Respective Section of Plume (µg/L)	Min. Kg.	Max. Kg.	Min. Vol. (Gallons)	Max. Vol. (Gallons)
North Plume												
March 2014 - 5 to 100 µg/L	*246,800*	3.7[1]	0.4	366,251	2,739,559	10,369,231	5	100	0.1	1.0	0.0	0.2
March 2014 - 100 to 1,000 µg/L	*184,500*	3.7[1]	0.4	273,798	2,048,009	7,751,714	100	1,000	0.8	7.8	0.1	1.4
March 2014 - > 1,000 µg/L	*100*	3.7[1]	0.4	148	1,110	4,201	1,000	1,500	0.0	0.0	0.0	0.0
March 2014 Subtotal	431,400								0.8	8.8	0.2	1.6
May 2014 - 5 to 100 µg/L	*279,000*	3.7[1]	0.4	414,036	3,096,989	11,722,104	5	100	0.1	1.2	0.0	0.2
May 2014 - 100 to 1,000 µg/L	*185,110*	3.7[1]	0.4	274,703	2,054,780	7,777,343	100	1,000	0.8	7.8	0.1	1.4
May 2014 - > 1,000 µg/L	*100*	3.7[1]	0.4	148	1,110	4,201	1,000	1,500	0.0	0.0	0.0	0.0
May 2014 Subtotal	464,210								0.8	9.0	0.2	1.6
July 2014 - 5 to 100 µg/L	*294,300*	3.7[1]	0.4	436,741	3,266,824	12,364,930	5	100	0.1	1.2	0.0	0.2
July 2014 - 100 to 1,000 µg/L	*192,500*	3.7[1]	0.4	285,670	2,136,812	8,087,832	100	1,000	0.8	8.1	0.1	1.5
July 2014 - > 1,000 µg/L	*200*	3.7[1]	0.4	297	2,220	8,403	1,000	1,500	0.0	0.0	0.0	0.0
July 2014 Subtotal	487,000								0.9	9.3	0.2	1.7
October 2014 - 5 to 100 µg/L	*299,500*	3.7[1]	0.4	444,458	3,324,546	12,583,406	5	100	0.1	1.3	0.0	0.2
October 2014 - 100 to 1,000 µg/L	*199,900*	3.7[1]	0.4	296,652	2,218,954	8,398,741	100	1,000	0.8	8.4	0.2	1.5
October 2014 - > 1,000 µg/L	*400*	3.7[1]	0.4	594	4,440	16,806	1,000	1,500	0.0	0.0	0.0	0.0
October 2014 Subtotal	499,800								0.9	9.7	0.2	1.8
January 2015 - 5 to 100 µg/L	*296,000*	3.7[1]	0.4	439,264	3,285,695	12,436,355	5	100	0.1	1.2	0.0	0.2
January 2015 - 100 to 1,000 µg/L	*180,466*	3.7[1]	0.4	267,812	2,003,230	7,582,227	100	1,000	0.8	7.6	0.1	1.4
January 2015 - > 1,000 µg/L	*0*	3.7[1]	0.4	0	0	0	1,000	1,500	0.0	0.0	0.0	0.0
January 2015 Subtotal	476,466								0.8	8.8	0.1	1.6
April 2015 - 5 to 100 µg/L	308,950	3.7[1]	0.4	458,482	3,429,444	12,980,445	5	100	0.1	1.3	0.0	0.2
April 2015 - 100 to 1,000 µg/L	177,037	3.7[1]	0.4	262,723	1,965,167	7,438,158	100	1,000	0.7	7.4	0.1	1.3
April 2015 - > 1,000 µg/L	0	3.7[1]	0.4	0	0	0	1,000	1,500	0.0	0.0	0.0	0.0
April 2015 Subtotal	485,987								0.8	8.7	0.1	1.6

TABLE 2
ESTIMATED QUANTITY OF TCE IN GROUNDWATER
Whirlpool Facility - Fort Smith, Arkansas

GROUNDWATER	Volume of Water						TCE Concentration		Mass of TCE		Volume of TCE	
Date	Plume Area (Square Feet)	Saturated Thickness (Feet)	Total Porosity[2]	Plume Area (Cubic Feet)	Gallons	Liters	Estimated Avg. Min. Concentration Assumed to be Present Throughout the Respective Section of Plume (µg/L)	Estimated Avg. Max. Concentration Assumed to be Present Throughout the Respective Section of Plume (µg/L)	Min. Kg.	Max. Kg.	Min. Vol. (Gallons)	Max. Vol. (Gallons)
July 2015 - 5 to 100 µg/L	334,058	3.7[1]	0.4	495,742	3,708,151	14,035,350	5	100	0.1	1.4	0.0	0.3
July 2015 - 100 to 1,000 µg/L	165,146	3.7[1]	0.4	245,077	1,833,173	6,938,561	100	1,000	0.7	6.9	0.1	1.3
July 2015 - > 1,000 µg/L	0	3.7[1]	0.4	0	0	0	1,000	1,500	0.0	0.0	0.0	0.0
July 2015 Subtotal	499,204								0.8	8.3	0.1	1.5
October 2015 - 5 to 100 µg/L	303,199	3.7[1]	0.4	449,947	3,365,606	12,738,818	5	100	0.1	1.3	0.0	0.2
October 2015 - 100 to 1,000 µg/L	152,180	3.7[1]	0.4	225,835	1,689,247	6,393,799	100	1,000	0.6	6.4	0.1	1.2
October 2015 - > 1,000 µg/L	0	3.7[1]	0.4	0	0	0	1,000	1,500	0.0	0.0	0.0	0.0
October 2015 Subtotal	455,379								0.7	7.7	0.1	1.4
January 2016 - 5 to 100 µg/L	302,982	3.7[1]	0.4	449,625	3,363,194	12,729,690	5	100	0.1	1.3	0.0	0.2
January 2016 - 100 to 1,000 µg/L	159,991	3.7[1]	0.4	237,427	1,775,954	6,721,985	100	1,000	0.7	6.7	0.1	1.2
January 2016 - > 1,000 µg/L	0	3.7[1]	0.4	0	0	0	1,000	1,500	0.0	0.0	0.0	0.0
January 2016 Subtotal	462,973								0.7	8.0	0.1	1.4
South Plume												
October 2014 - 5 to 100 µg/L	*519,800*	8.3[1]	0.4	1,727,815	12,924,058	48,917,558	5	100	0.2	4.9	0.0	0.9
October 2014 - 100 to 1,000 µg/L	*261,500*	8.3[1]	0.4	869,226	6,501,810	24,609,353	100	1,000	2.5	24.6	0.4	4.5
October 2014 - > 1,000 µg/L	*119,000*	8.3[1]	0.4	395,556	2,958,759	11,198,902	1,000	1,500	11.2	16.8	2.0	3.0
October 2014 Subtotal	900,300								13.9	46.3	2.5	8.4
January 2015 - 5 to 100 µg/L	*442,344*	8.3[1]	0.4	1,470,351	10,998,229	41,628,296	5	100	0.2	4.2	0.0	0.8
January 2015 - 100 to 1,000 µg/L	*324,537*	8.3[1]	0.4	1,078,761	8,069,132	30,541,665	100	1,000	3.1	30.5	0.6	5.5
January 2015 - 1,000 to 10,000 µg/L	*86,311*	8.3[1]	0.4	286,898	2,145,995	8,122,592	1,000	1,500	8.1	12.2	1.5	2.2
January 2015 - > 10,000 µg/L	*16,637*	8.3[1]	0.4	55,301	413,654	1,565,682	10,000	40,000	15.7	62.6	2.8	11.3
January 2015 Subtotal	869,829								27.0	109.5	4.9	19.8
April 2015 - 5 to 100 µg/L	446,025	8.3[1]	0.4	1,482,587	11,089,752	41,974,709	5	100	0.2	4.2	0.0	0.8
April 2015 - 100 to 1,000 µg/L	320,887	8.3[1]	0.4	1,066,628	7,978,380	30,198,170	100	1,000	3.0	30.2	0.5	5.5
April 2015 - 1,000 to 10,000 µg/L	82,635	8.3[1]	0.4	274,679	2,054,597	7,776,650	1,000	1,500	7.8	11.7	1.4	2.1

TABLE 2
ESTIMATED QUANTITY OF TCE IN GROUNDWATER
Whirlpool Facility - Fort Smith, Arkansas

GROUNDWATER	Volume of Water						TCE Concentration		Mass of TCE		Volume of TCE	
Date	Plume Area (Square Feet)	Saturated Thickness (Feet)	Total Porosity[2]	Plume Area (Cubic Feet)	Gallons	Liters	Estimated Avg. Min. Concentration Assumed to be Present Throughout the Respective Section of Plume (µg/L)	Estimated Avg. Max. Concentration Assumed to be Present Throughout the Respective Section of Plume (µg/L)	Min. Kg.	Max. Kg.	Min. Vol. (Gallons)	Max. Vol. (Gallons)
April 2015 - > 10,000 µg/L	19,906	8.3[1]	0.4	66,168	494,933	1,873,322	10,000	40,000	18.7	74.9	3.4	13.6
April 2015 Subtotal	869,453								29.7	121.0	5.4	21.9
July 2015 - 5 to 100 µg/L	366,826	8.3[1]	0.4	1,219,330	9,120,586	34,521,416	5	100	0.2	3.5	0.0	0.6
July 2015 - 100 to 1,000 µg/L	439,964	8.3[1]	0.4	1,462,440	10,939,054	41,404,318	100	1,000	4.1	41.4	0.7	7.5
July 2015 - 1,000 to 10,000 µg/L	158,420	8.3[1]	0.4	526,588	3,938,879	14,908,656	1,000	1,500	14.9	22.4	2.7	4.0
July 2015 - > 10,000 µg/L	17,739	8.3[1]	0.4	58,964	441,054	1,669,389	10,000	40,000	16.7	66.8	3.0	12.1
July 2015 Subtotal	982,949								35.9	134.0	6.5	24.3
October 2015 - 5 to 100 µg/L	452,019	8.3[1]	0.4	1,502,511	11,238,783	42,538,795	5	100	0.2	4.3	0.0	0.8
October 2015 - 100 to 1,000 µg/L	410,850	8.3[1]	0.4	1,365,665	10,215,177	38,664,446	100	1,000	3.9	38.7	0.7	7.0
October 2015 - 1,000 to 10,000 µg/L	178,334	8.3[1]	0.4	592,782	4,434,011	16,782,732	1,000	1,500	16.8	25.2	3.0	4.6
October 2015 - > 10,000 µg/L	26,442	8.3[1]	0.4	87,893	657,441	2,488,415	10,000	40,000	24.9	99.5	4.5	18.0
October 2015 Subtotal	1,067,645								45.7	167.6	8.3	30.4
January 2016 - 5 to 100 µg/L	471,252	8.3[1]	0.4	1,566,442	11,716,984	44,348,784	5	100	0.2	4.4	0.0	0.8
January 2016 - 100 to 1,000 µg/L	432,480	8.3[1]	0.4	1,437,562	10,752,966	40,699,976	100	1,000	4.1	40.7	0.7	7.4
January 2016 - 1,000 to 10,000 µg/L	185,422	8.3[1]	0.4	616,344	4,610,254	17,449,810	1,000	1,500	17.4	26.2	3.2	4.7
January 2016 - > 10,000 µg/L	26,570	8.3[1]	0.4	88,320	660,636	2,500,506	10,000	40,000	25.0	100.0	4.5	18.1
January 2016 Subtotal	1,115,725								46.7	171.3	8.5	31.0
Northeast Plume												
October 2014 - 5 to 100 µg/L	*187,600*	4.4[1]	0.4	330,926	2,475,329	9,369,122	5	100	0.0	0.9	0.0	0.2
October 2014 - 100 to 1,000 µg/L	*69,200*	4.4[1]	0.4	122,069	913,075	3,455,987	100	1,000	0.3	3.5	0.1	0.6
October 2014 - > 1,000 µg/L	*0*	4.4[1]	0.4	0	0	0	1,000	1,500	0.0	0.0	0.0	0.0
October 2014 Subtotal	256,800								0.4	4.4	0.1	0.8
January 2015 - 5 to 100 µg/L	*166,439*	4.4[1]	0.4	293,598	2,196,116	8,312,299	5	100	0.0	0.8	0.0	0.2
January 2015 - 100 to 1,000 µg/L	*74,000*	4.4[1]	0.4	130,536	976,409	3,695,709	100	1,000	0.4	3.7	0.1	0.7
January 2015 - > 1,000 µg/L	*0*	4.4[1]	0.4	0	0	0	1,000	1,500	0.0	0.0	0.0	0.0
January 2015 Subtotal	240,439								0.4	4.5	0.1	0.8

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TABLE 2
ESTIMATED QUANTITY OF TCE IN GROUNDWATER
Whirlpool Facility - Fort Smith, Arkansas

GROUNDWATER	Volume of Water						TCE Concentration		Mass of TCE		Volume of TCE	
Date	Plume Area (Square Feet)	Saturated Thickness (Feet)	Total Porosity[2]	Plume Area (Cubic Feet)	Gallons	Liters	Estimated Avg. Min. Concentration Assumed to be Present Throughout the Respective Section of Plume (µg/L)	Estimated Avg. Max. Concentration Assumed to be Present Throughout the Respective Section of Plume (µg/L)	Min. Kg.	Max. Kg.	Min. Vol. (Gallons)	Max. Vol. (Gallons)
April 2015 - 5 to 100 µg/L	183,000	4.4[1]	0.4	322,812	2,414,634	9,139,389	5	100	0.0	0.9	0.0	0.2
April 2015 - 100 to 1,000 µg/L	70,500	4.4[1]	0.4	124,362	930,228	3,520,912	100	1,000	0.4	3.5	0.1	0.6
April 2015 - > 1,000 µg/L	0	4.4[1]	0.4	0	0	0	1,000	1,500	0.0	0.0	0.0	0.0
April 2015 Subtotal	253,500								0.4	4.4	0.1	0.8
July 2015 - 5 to 100 µg/L	176,731	4.4[1]	0.4	311,753	2,331,916	8,826,302	5	100	0.0	0.9	0.0	0.2
July 2015 - 100 to 1,000 µg/L	76,915	4.4[1]	0.4	135,678	1,014,872	3,841,290	100	1,000	0.4	3.8	0.1	0.7
July 2015 - > 1,000 µg/L	0	4.4[1]	0.4	0	0	0	1,000	1,500	0.0	0.0	0.0	0.0
July 2015 Subtotal	253,646								0.4	4.7	0.1	0.9
October 2015 - 5 to 100 µg/L	160,153	4.4[1]	0.4	282,510	2,113,174	7,998,364	5	100	0.0	0.8	0.0	0.1
October 2015 - 100 to 1,000 µg/L	77,178	4.4[1]	0.4	136,142	1,018,342	3,854,425	100	1,000	0.4	3.9	0.1	0.7
October 2015 - > 1,000 µg/L	0	4.4[1]	0.4	0	0	0	1,000	1,500	0.0	0.0	0.0	0.0
October 2015 Subtotal	237,331								0.4	4.7	0.1	0.8
January 2016 - 5 to 100 µg/L	160,000	4.4[1]	0.4	282,240	2,111,156	7,990,726	5	100	0.0	0.8	0.0	0.1
January 2016 - 100 to 1,000 µg/L	80,142	4.4[1]	0.4	141,370	1,057,448	4,002,441	100	1,000	0.4	4.0	0.1	0.7
January 2016 - > 1,000 µg/L	0	4.4[1]	0.4	0	0	0	1,000	1,500	0.0	0.0	0.0	0.0
January 2016 Subtotal	240,142								0.4	4.8	0.1	0.9

Notes:
1 - Saturated Thickness estimated from 4th Quarter 2014 RADD sampled wells and new 4th Quarter well completions (see Table 1).
2 - Total Porosity estimated from Freeze and Cherry (1979).
TCE - Trichloroethylene
µg/L - Micrograms per liter

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ENVIRONMENT
& HEALTH

Mr. Mostafa Mehran
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, Arkansas 72118

RE: Onsite Indoor Air and Sub-slab Soil Vapor Data Report
Former Whirlpool Facility
Fort Smith, Arkansas

Dear Mr. Mehran:

Date April 27, 2016

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St. Louis, MO 63146
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www.ramboll-environ.com

On behalf of Whirlpool Corporation (Whirlpool), Ramboll Environ US Corporation (Ramboll Environ) collected indoor air and sub-slab soil vapor samples within and beneath the former Whirlpool manufacturing building located at 6400 Jenny Lind Road in Fort Smith, Arkansas. The purpose of the indoor air sampling was to evaluate potential vapor intrusion within the building as a result of the trichloroethene (TCE) contamination under investigation by Whirlpool. Whirlpool is planning and preparing the building for reuse and the indoor air quality assessment is an important part of the process for re-purposing the building.

As summarized in the Two Year Technical Review Report (Ramboll Environ, 2016), TCE exists beneath the building primarily beneath the western portion of the former manufacturing building based upon historic operations performed at the site, membrane interface probe (MIP) investigations, interior soil probes and borings for collection of soil and groundwater samples and groundwater monitoring events performed over the last 20+ years.

Currently the building is unoccupied. Whirlpool is beginning with the removal of equipment associated with the former operations and demolition and removal of mezzanine structures in the building with an objective of creating an open floor plan building with approximately 38 foot ceiling heights to facilitate re-purposing the building for warehousing operations.

The indoor air sampling that was performed to assess the indoor air quality that workers would encounter during those upcoming activities.

The number and location of the indoor air and sub-slab soil vapor samples collected in February 2016 are consistent with those in the Onsite Preliminary Indoor Air Quality Investigation Work Plan (February 3, 2016), which was submitted to and approved by the Arkansas Department of Environmental Quality (ADEQ). All samples were collected while the building's ventilation system was operating normally

with several overhead doors open. The building conditions during sampling were consistent with conditions that would have occurred when the facility was previously in operation, as well as, the conditions expected to be maintained during the upcoming phases of preparing the building for reuse.

SAMPLING METHODS

Pre Sampling Preparation

At least 8 hours prior to sampling indoor air or sub-slab soil vapor, the building ventilation system was operated at levels that were consistent with the conditions while the facility was operated by Whirlpool. The operation of the building ventilation system was intended to simulate conditions to be maintained during the upcoming phases of activities to prepare the building for reuse.

While the building ventilation system was operating and before collecting samples, the indoor air was field screened using a 10.6 eV MiniRAE 2000 hand-held photoionization detector (PID). The field screening was performed on January 12, 2016, to determine whether any air quality conditions might warrant taking additional health and safety precautions during sampling and to identify building features that might serve as preferential pathways for vapor intrusion (e.g. floor joints or cracks, below grade pits, etc.). There were no detections of volatile organic compounds (VOCs) in indoor air during the pre-sampling inspection. The PID was calibrated to a detection limit of approximately 1 parts per million (ppm), which is below the Occupational Safety and Health Administration (OSHA) limit of 10 ppm for TCE.

Indoor and Outdoor Air Sampling

Indoor air samples were collected on February 18, 2016, while the building ventilation system was operating normally with several overhead doors open. Sampling was performed between 0700 and 1745 CDT and during this time the temperature ranged from 40 to 78°F, the relative humidity ranged from 16 to 68% and the wind speed ranged from 5.8 to 21.9 miles per hour (mph) based upon climate data from the National Weather Service at the Fort Smith Regional Airport located approximately 2 miles northeast of the site (February 18, 2016, climate data).

Indoor air samples were collected from open areas at six locations within the building (Figure 1). The locations were away from existing machinery, concrete pits, or confined areas.

An outdoor air sample was also collected on February 18, 2016, to evaluate potential contributions from sources other than vapor intrusion. The outdoor air sample was collected northeast of the building, which was upwind of the building when sample collection started.

Indoor and outdoor air samples, including one duplicate indoor air sample, were collected at breathing height (approximately 70 inches above the ground) over an 8 hour period.

Samples were collected using certified clean stainless steel Summa canisters provided by an accredited analytical laboratory using flow control regulators preset by the laboratory to collect an 8 hour time integrated sample. The canister ID, regulator ID and initial canister pressure were logged at the beginning of sampling at each location. Indoor and outdoor air samples were collected until the pressure remaining in the canister read between negative (-) 5 and 6 inches mercury (in. Hg). All canisters were sealed and shipped to the analytical laboratory for analysis of TCE and associated breakdown products using USEPA Method TO-15 SIM. The results are summarized in Table 1. A complete laboratory report of the indoor and outdoor air sampling results is attached.

Sub-slab Vapor Sampling

Permanent sub-slab soil vapor sampling ports were installed through the floor of the building on February 24, 2016. The sub-slab soil vapor sampling ports were placed adjacent to the indoor air sampling locations discussed above. After final placement of the sample locations, the distances from each port to the closest wall was measured and are summarized in Table 2.

The six sampling ports were installed through the concrete floor using a hammer drill. The hammer drill was used to drill a roughly 2 inch deep, 1.5 inch outer diameter hole into the concrete floor. A smaller 5/8 inch inner diameter borehole was drilled approximately 6 inches deeper and through the bottom of the slab. The holes in the concrete were cleared of drill cuttings with a shop-vac and the opening was monitored using a PID placed into each hole for 1 minute.

A Stainless Steel Vapor Pin™ was installed into each hole through the slab and hammered into place using a rubber mallet. The vapor pin was sealed into the 5/8 inch inner diameter borehole through the slab using the manufacturer supplied rubber sheath that is designed to create an airtight seal between the vapor pin and the concrete slab. An airtight cap was placed on the opening in the vapor pin that is used to withdraw sub-slab soil vapors for sampling. The ports were allowed to equilibrate overnight prior to sampling sub-slab soil vapor.

Sub-slab vapor sampling was conducted on February 25, 2016, with building conditions similar to those during the collection of indoor air, as discussed above. Sampling was performed between 0845 and 1945 CDT and during this time the temperature ranged from 42 to 50°F, the relative humidity ranged from 36 to 58% and the wind speed ranged from 4.6 to 15 mph based upon climate data from the National Weather Service at the Fort Smith Airport (February 25, 2016, climate data).

Sub-slab samples were collected after at least 2 liters (L) of air was purged and tested for methane (CH_4), carbon dioxide (CO_2) and oxygen (O_2) content using a GEM 2000 multi-gas probe. Leak testing was conducted during purging and during the first 30 minutes of sampling. A shroud was placed over the sub-slab sample port, sampling train and tubing connections to and from the Summa canister and helium was injected until the air in the

shroud measured >15% helium using a helium detector. The helium detector was then used to measure the amount of helium in the sampling line. All helium measurements from the leak test were non-detect, except at sample location Q4 where 225 ppm of helium was measured in the sampling line. The helium concentration of 225 ppm was below the limit of 5% helium, suggesting the sampling train was adequately sealed (Onsite Preliminary Indoor Air Quality Investigation Work Plan, February 3, 2016, Attachment B: Sub-slab Soil Vapor Sampling Leak Testing Procedures).

After the sampling train was determined to be adequately sealed, soil vapor samples were collected using certified clean stainless steel Summa canisters provided by an accredited analytical laboratory using flow control regulators pre-set by the laboratory to collect an 8 hour time integrated sample. The canister ID, regulator ID and initial canister pressure were logged at the beginning of sampling at each location. Soil vapor samples were collected until the pressure remaining in the canister read between negative (-) 5 and 6 inches mercury (in. Hg). All canisters were sealed and shipped to the analytical laboratory for analysis of TCE and associated breakdown products using Method TO-15 SIM. The results are summarized on Table 3.

EVALUATION OF RESULTS

Indoor Air

As summarized in Table 1, certain chemicals [1,2-dichloroethane (1,2-DCA), trans-1,2-dichloroethene (trans-1,2-DCE), tetrachloroethene (PCE) and TCE] were detected in the indoor air samples. Their respective concentrations were in each case below USEPA and ADEQ indoor air screening levels[1]. These screening levels are conservative and are not intended to represent action levels.

These results do not indicate health risks from indoor exposure in the open areas of the building when it is operating under normal conditions.

Sub-slab Vapor

Table 3 shows that some chemicals were detected in the sub-slab soil vapor samples. TCE was detected in sub-slab soil vapor samples at concentrations of 522 and 1,590 micrograms per cubic meter (µg/m^3) (sample locations Q2 and Q5, respectively) which exceed the USEPA sub-slab vapor screening level concentration (assuming USEPA's default attenuation factor of 0.03) as shown in Table 3. However, indoor air TCE concentrations at Q2 and Q5 were well below indoor air screening levels (0.11 µg/m^{3}and 0.27 µg/m^3, respectively

[1] The USEPA Regional Screening Levels are used for site "screening" to help assess conditions that may require further attention at a particular site. When contaminant concentrations fall below screening levels, no further action or study is typically warranted as long as the exposure assumptions remain consistent. Concentrations detected above a screening level do not automatically trigger a response action; however, concentrations exceeding screening levels suggest that further evaluation of the potential risks of site contaminants is appropriate.

compared to the indoor air screening level of 8.8 µg/m^3). In addition, vinyl chloride (VC) (a breakdown product of TCE) was detected at Q3 at a concentration beneath the slab (60,000 µg/m^3) that exceed USEPA's sub-slab vapor screening levels; however, the indoor air VC concentration at Q3 was below detection limits.

The highest TCE concentrations detected in sub-slab soil vapor were located in the same areas (Q2 and Q5) where the highest TCE indoor air concentrations were detected. These results indicate that some of the TCE in the indoor air may have originated from under the slab at these locations.

CONCLUSION

As discussed above, the indoor air data do not indicate health risks from vapor intrusion in the open areas of the building when it is operating under normal conditions. The groundwater, soil and soil vapor data from beneath and around the building indicate that if floor penetrations occur, a potential exists for contaminants in the subsurface to volatilize and migrate into the indoor air in some parts of the building.

RECOMMENDATIONS

Whirlpool will require the following precautionary measures during activities related to preparation of the building for reuse (e.g. during the inventory and removal of equipment associated with the former operations, renovation of the existing space, filling pits, removing offices):

- A health and safety plan (HASP) should be prepared by the respective contractors for the building preparation or renovation activities in the building that include appropriate measures for the constituents present at the site;
- All work must comply with OSHA regulations;
- Work must be performed only during normal operating building conditions (i.e. the ventilation system must be operating normally and overhead doors must be open); and
- The concrete floor should not be penetrated during any activities, including equipment removal, demolition of mezzanines, or backfilling concrete pits.

In addition to the above precautions, an additional round of indoor air, outdoor air and sub-slab soil vapor samples will be collected during the summer months to determine if warmer weather produces results that are materially different from those in February. The Q1 and Q4 sampling locations (indoor air and sub-slab vapor) will be positioned at locations in the respective quadrants exhibiting the highest TCE concentrations in groundwater based upon the latest published progress report when the next sampling event is performed. The need for further sampling thereafter will be evaluated based on these results and any monitoring performed during building preparation and renovation activities.

After the building has been renovated and before it is put back into operation for commercial purposes, additional indoor air and sub-slab soil vapor sampling should be performed to confirm the safety of indoor air quality in the renovated building. The details of such sampling will depend on the nature of the renovations completed and the specific planned future use or uses of the building.

-oo0oo-

Please contact me if you have any additional comments or questions regarding the assessment of indoor air quality at the former Whirlpool manufacturing building.

Sincerely,



Michael F. Ellis, PE
Principal

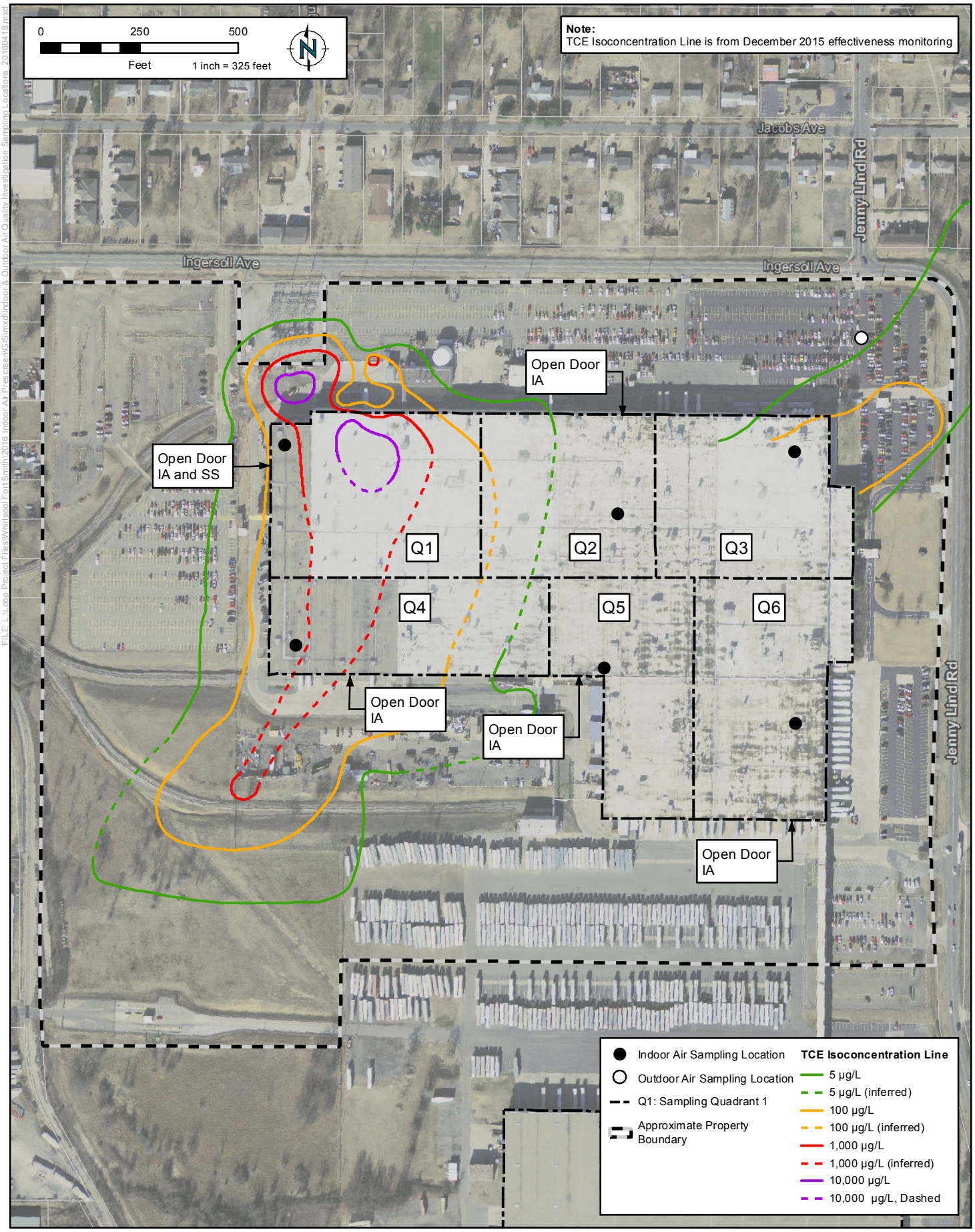
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LIST OF APPENDICES

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FIGURE



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INDOOR AIR QUALITY INVESTIGATION SAMPLING LOCATIONS

Whirlpool Facility - Fort Smith, Arkansas

Figure 1

DRAFTED BY: FK | DATE: 04/18/2016 | PROJECT: 3437500N

TABLES

TABLE 1
INDOOR AIR SAMPLING RESULTS
Former Whirlpool Facility - Fort Smith, Arkansas

Location	Industrial Air	Q1	Q2	Q3	Q3 - DUP	Q4	Q5	Q6	AA
Ramboll Environ Sample ID	RSL	Q1-201602	Q2-201602	Q3-201602	3-201602-DUP	Q4-201602	Q5-201602	Q6-201602	AA-201602
Lab Sample ID	(TR = 1E-5)	60213392002	60213392003	60213392004	60213392005	60213392006	60213392007	60213392008	60213392001
Sample Date	(THQ = 1)	2/18/2016	2/18/2016	2/18/2016	2/18/2016	2/18/2016	2/18/2016	2/18/2016	2/18/2016
Volatile Organic Compounds									
1,1-Dichloroethane	77	ND (0.057)	ND (0.055)	ND (0.057)	ND (0.057)	ND (0.057)	ND (0.059)	ND (0.057)	ND (0.072)
1,2-Dichloroethane	4.7	0.074 (0.057)	0.11 (0.055)	0.21 (0.057)	0.21 (0.057)	0.066 (0.057)	0.078 (0.059)	0.12 (0.057)	ND (0.072)
1,1-Dichloroethene	880	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.2)	ND (1.1)	ND (1.4)
cis-1,2-Dichloroethene		ND (0.056)	ND (0.054)	ND (0.056)	ND (0.056)	ND (0.056)	ND (0.058)	ND (0.056)	ND (0.071)
trans-1,2-Dichloroethene		ND (0.056)	0.067 (0.054)	ND (0.056)	ND (0.056)	ND (0.056)	ND (0.058)	ND (0.056)	ND (0.071)
Tetrachloroethene	180	ND (0.096)	0.21 (0.092)	0.2 (0.096)	0.21 (0.096)	0.11 (0.096)	ND (0.099)	ND (0.096)	0.19 (0.12)
1,1,1-Trichloroethane	22000	ND (0.077)	ND (0.074)	ND (0.077)	ND (0.077)	ND (0.077)	ND (0.080)	ND (0.077)	ND (0.097)
Trichloroethene	8.8	0.064 (0.038)	0.11 (0.037)	ND (0.038)	ND (0.038)	0.041 (0.038)	0.27 (0.039)	ND (0.038)	0.052 (0.048)
Vinyl Chloride	28	ND (0.036)	ND (0.035)	ND (0.036)	ND (0.036)	ND (0.036)	ND (0.037)	ND (0.036)	ND (0.046)

Notes:
All concentrations presented in micrograms per cubic meters ($\mu g/m^3$)
RSL - Regional screening levels
Q1 - Quadrant 1
U - Not detected
( ) - Detection Limit

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TABLE 2
SUB-SLAB SOIL VAPOR POINT LOCATIONS
Former Whirlpool Facility - Fort Smith, Arkansas

Location	Distance to Outside Wall
Q1	37 feet east of west exterior wall; 38 feet south of north wall
Q2	230 feet south of north exterior wall
Q3	90 feet south of north exterior wall; 92 feet west of east wall
Q4	69 feet north of south exterior wall
Q5	30 feet south of exterior wall
Q6	54 feet west of east exterior wall

Notes:
Q1 - Quadrant 1

TABLE 3
SUB-SLAB SOIL VAPOR SAMPLING RESULTS
Former Whirlpool Facility - Fort Smith, Arkansas

Location	Industrial Air	Q1	Q1	Q2	Q3	Q4	Q5	Q6
Ramboll Environ Sample ID	RSL	Q1-SS-201602	SS-201602-DUP	Q2-SS-201602	Q3-SS-201602	Q4-SS-201602	Q5-SS-201602	Q6-SS-201602
Lab Sample ID	(TR = 1E-5)	60213886007	60213886001	60213886002	60213886003	60213886004	60213886005	60213886006
Sample Date	(THQ = 1)	2/25/2016	2/25/2016	2/25/2016	2/25/2016	2/25/2016	2/25/2016	2/25/2016
Volatile Organic Compounds								
1,1-Dichloroethane	77	U (1.2)	U (1.6)	U (1.30)	131J (407)	U (1.2)	U (26.4)	U (1.3)
1,2-Dichloroethane	4.7	U (0.61)	U (0.82)	U (0.66)	U (203)	U (0.61)	U (13.2)	U (0.64)
1,1-Dichloroethene	880	U (1.2)	U (1.6)	U (1.3)	U (402)	U (1.2)	U (26.1)	U (1.3)
cis-1,2-Dichloroethene		U (1.2)	U (1.6)	2.2 (1.3)	4150 (402)	U (1.2)	U (26.1)	U (1.3)
trans-1,2-Dichloroethene		U (1.2)	U (1.6)	U (1.3)	673 (402)	U (1.2)	U (26.1)	U (1.3)
Tetrachloroethene	180	U (1.0)	U (1.4)	0.75J (1.1)	U (342)	U (1.0)	13.3J (22.2)	1.3 (1.1)
1,1,1-Trichloroethane	22000	86.1 (1.7)	64.0 (2.2)	132 (1.8)	U (551)	U (1.7)	U (35.7)	17.7 (1.7)
Trichloroethene	8.8	U (0.82)	U (1.1)	552 (4.4)	U (273)	U (0.82)	1590 (17.7)	U (0.85)
Vinyl Chloride	28	U (0.39)	U (0.52)	U (0.42)	60000 (516)	U (0.39)	U (8.4)	U (0.40)

Notes:
All concentrations presented in micrograms per cubic meters ($\mu g/m^3$)
RSL - Regional screening levels
Q1 - Quadrant 1
U - Not detected
( ) - Detection Limit

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APPENDIX A
Laboratory Reports

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

February 22, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: Whirlpool Air Mont.
Pace Project No.: 60213392

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on February 19, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: Whirlpool Air Mont.
Pace Project No.: 60213392

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Whirlpool Air Mont.
Pace Project No.: 60213392

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60213392001	**AA-201602**	Air	02/18/16 15:41	02/19/16 10:15
60213392002	**Q1-201602**	Air	02/18/16 16:08	02/19/16 10:15
60213392003	**Q2-201602**	Air	02/18/16 16:15	02/19/16 10:15
60213392004	**Q3-201602**	Air	02/18/16 16:20	02/19/16 10:15
60213392005	**Q3-201602 - DUP**	Air	02/18/16 16:20	02/19/16 10:15
60213392006	**Q4-201602**	Air	02/18/16 16:29	02/19/16 10:15
60213392007	**Q5-201602**	Air	02/18/16 16:34	02/19/16 10:15
60213392008	**Q6-201602**	Air	02/18/16 16:38	02/19/16 10:15

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SAMPLE ANALYTE COUNT

Project: Whirlpool Air Mont.
Pace Project No.: 60213392

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60213392001	**AA-201602**	TO-15 by SIM	MJL	9	PASI-M
60213392002	**Q1-201602**	TO-15 by SIM	MJL	9	PASI-M
60213392003	**Q2-201602**	TO-15 by SIM	MJL	9	PASI-M
60213392004	**Q3-201602**	TO-15 by SIM	MJL	9	PASI-M
60213392005	**Q3-201602 - DUP**	TO-15 by SIM	MJL	9	PASI-M
60213392006	**Q4-201602**	TO-15 by SIM	MJL	9	PASI-M
60213392007	**Q5-201602**	TO-15 by SIM	MJL	9	PASI-M
60213392008	**Q6-201602**	TO-15 by SIM	MJL	9	PASI-M

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PROJECT NARRATIVE

Project: Whirlpool Air Mont.
Pace Project No.: 60213392

Method: **TO-15 by SIM**
Description: TO15 MSV AIR SIM
Client: Environ_AR
Date: February 22, 2016

General Information:
8 samples were analyzed for TO-15 by SIM. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Whirlpool Air Mont.
Pace Project No.: 60213392

Sample: AA-201602 **Lab ID: 60213392001** Collected: 02/18/16 15:41 Received: 02/19/16 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR SIM	Analytical Method: TO-15 by SIM								
1,1-Dichloroethane	ND	ug/m3	0.072	0.0084	1.75		02/21/16 22:59	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.072	0.0081	1.75		02/21/16 22:59	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.4	0.42	1.75		02/21/16 22:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.071	0.011	1.75		02/21/16 22:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.071	0.018	1.75		02/21/16 22:59	156-60-5	
Tetrachloroethene	**0.19**	ug/m3	0.12	0.0085	1.75		02/21/16 22:59	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	0.097	0.0076	1.75		02/21/16 22:59	71-55-6	
Trichloroethene	**0.052**	ug/m3	0.048	0.012	1.75		02/21/16 22:59	79-01-6	
Vinyl chloride	ND	ug/m3	0.046	0.013	1.75		02/21/16 22:59	75-01-4	

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ANALYTICAL RESULTS

Project: Whirlpool Air Mont.
Pace Project No.: 60213392

Sample: Q1-201602 **Lab ID: 60213392002** Collected: 02/18/16 16:08 Received: 02/19/16 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR SIM	Analytical Method: TO-15 by SIM								
1,1-Dichloroethane	ND	ug/m3	0.057	0.0067	1.39		02/21/16 23:26	75-34-3	
1,2-Dichloroethane	**0.074**	ug/m3	0.057	0.0064	1.39		02/21/16 23:26	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		02/21/16 23:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.056	0.0091	1.39		02/21/16 23:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.056	0.015	1.39		02/21/16 23:26	156-60-5	
Tetrachloroethene	ND	ug/m3	0.096	0.0067	1.39		02/21/16 23:26	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	0.077	0.0060	1.39		02/21/16 23:26	71-55-6	
Trichloroethene	**0.064**	ug/m3	0.038	0.0096	1.39		02/21/16 23:26	79-01-6	
Vinyl chloride	ND	ug/m3	0.036	0.011	1.39		02/21/16 23:26	75-01-4	

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ANALYTICAL RESULTS

Project: Whirlpool Air Mont.
Pace Project No.: 60213392

Sample: Q2-201602 **Lab ID: 60213392003** Collected: 02/18/16 16:15 Received: 02/19/16 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR SIM	Analytical Method: TO-15 by SIM								
1,1-Dichloroethane	ND	ug/m3	0.055	0.0064	1.34		02/21/16 23:53	75-34-3	
1,2-Dichloroethane	**0.11**	ug/m3	0.055	0.0062	1.34		02/21/16 23:53	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.32	1.34		02/21/16 23:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.054	0.0088	1.34		02/21/16 23:53	156-59-2	
trans-1,2-Dichloroethene	**0.067**	ug/m3	0.054	0.014	1.34		02/21/16 23:53	156-60-5	
Tetrachloroethene	**0.21**	ug/m3	0.092	0.0065	1.34		02/21/16 23:53	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	0.074	0.0058	1.34		02/21/16 23:53	71-55-6	
Trichloroethene	**0.11**	ug/m3	0.037	0.0093	1.34		02/21/16 23:53	79-01-6	
Vinyl chloride	ND	ug/m3	0.035	0.010	1.34		02/21/16 23:53	75-01-4	

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ANALYTICAL RESULTS

Project: Whirlpool Air Mont.
Pace Project No.: 60213392

Sample: Q3-201602 **Lab ID: 60213392004** Collected: 02/18/16 16:20 Received: 02/19/16 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR SIM	Analytical Method: TO-15 by SIM								
1,1-Dichloroethane	ND	ug/m3	0.057	0.0067	1.39		02/22/16 10:05	75-34-3	
1,2-Dichloroethane	**0.21**	ug/m3	0.057	0.0064	1.39		02/22/16 10:05	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		02/22/16 10:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.056	0.0091	1.39		02/22/16 10:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.056	0.015	1.39		02/22/16 10:05	156-60-5	
Tetrachloroethene	**0.20**	ug/m3	0.096	0.0067	1.39		02/22/16 10:05	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	0.077	0.0060	1.39		02/22/16 10:05	71-55-6	
Trichloroethene	ND	ug/m3	0.038	0.0096	1.39		02/22/16 10:05	79-01-6	
Vinyl chloride	ND	ug/m3	0.036	0.011	1.39		02/22/16 10:05	75-01-4	

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ANALYTICAL RESULTS

Project: Whirlpool Air Mont.
Pace Project No.: 60213392

Sample: Q3-201602 - DUP **Lab ID: 60213392005** Collected: 02/18/16 16:20 Received: 02/19/16 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR SIM	Analytical Method: TO-15 by SIM								
1,1-Dichloroethane	ND	ug/m3	0.057	0.0067	1.39		02/22/16 10:32	75-34-3	
1,2-Dichloroethane	**0.21**	ug/m3	0.057	0.0064	1.39		02/22/16 10:32	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		02/22/16 10:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.056	0.0091	1.39		02/22/16 10:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.056	0.015	1.39		02/22/16 10:32	156-60-5	
Tetrachloroethene	**0.21**	ug/m3	0.096	0.0067	1.39		02/22/16 10:32	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	0.077	0.0060	1.39		02/22/16 10:32	71-55-6	
Trichloroethene	ND	ug/m3	0.038	0.0096	1.39		02/22/16 10:32	79-01-6	
Vinyl chloride	ND	ug/m3	0.036	0.011	1.39		02/22/16 10:32	75-01-4	

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ANALYTICAL RESULTS

Project: Whirlpool Air Mont.
Pace Project No.: 60213392

Sample: Q4-201602 **Lab ID: 60213392006** Collected: 02/18/16 16:29 Received: 02/19/16 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR SIM	Analytical Method: TO-15 by SIM								
1,1-Dichloroethane	ND	ug/m3	0.057	0.0067	1.39		02/22/16 11:00	75-34-3	
1,2-Dichloroethane	**0.066**	ug/m3	0.057	0.0064	1.39		02/22/16 11:00	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		02/22/16 11:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.056	0.0091	1.39		02/22/16 11:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.056	0.015	1.39		02/22/16 11:00	156-60-5	
Tetrachloroethene	**0.11**	ug/m3	0.096	0.0067	1.39		02/22/16 11:00	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	0.077	0.0060	1.39		02/22/16 11:00	71-55-6	
Trichloroethene	**0.041**	ug/m3	0.038	0.0096	1.39		02/22/16 11:00	79-01-6	
Vinyl chloride	ND	ug/m3	0.036	0.011	1.39		02/22/16 11:00	75-01-4	

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ANALYTICAL RESULTS

Project: Whirlpool Air Mont.
Pace Project No.: 60213392

Sample: Q5-201602 **Lab ID: 60213392007** Collected: 02/18/16 16:34 Received: 02/19/16 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR SIM	Analytical Method: TO-15 by SIM								
1,1-Dichloroethane	ND	ug/m3	0.059	0.0069	1.44		02/22/16 09:11	75-34-3	
1,2-Dichloroethane	**0.078**	ug/m3	0.059	0.0066	1.44		02/22/16 09:11	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.34	1.44		02/22/16 09:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.058	0.0095	1.44		02/22/16 09:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.058	0.015	1.44		02/22/16 09:11	156-60-5	
Tetrachloroethene	ND	ug/m3	0.099	0.0070	1.44		02/22/16 09:11	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	0.080	0.0063	1.44		02/22/16 09:11	71-55-6	
Trichloroethene	**0.27**	ug/m3	0.039	0.010	1.44		02/22/16 09:11	79-01-6	
Vinyl chloride	ND	ug/m3	0.037	0.011	1.44		02/22/16 09:11	75-01-4	

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ANALYTICAL RESULTS

Project: Whirlpool Air Mont.
Pace Project No.: 60213392

Sample: Q6-201602 **Lab ID: 60213392008** Collected: 02/18/16 16:38 Received: 02/19/16 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR SIM	Analytical Method: TO-15 by SIM								
1,1-Dichloroethane	ND	ug/m3	0.057	0.0067	1.39		02/22/16 09:38	75-34-3	
1,2-Dichloroethane	**0.12**	ug/m3	0.057	0.0064	1.39		02/22/16 09:38	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		02/22/16 09:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.056	0.0091	1.39		02/22/16 09:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.056	0.015	1.39		02/22/16 09:38	156-60-5	
Tetrachloroethene	ND	ug/m3	0.096	0.0067	1.39		02/22/16 09:38	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	0.077	0.0060	1.39		02/22/16 09:38	71-55-6	
Trichloroethene	ND	ug/m3	0.038	0.0096	1.39		02/22/16 09:38	79-01-6	
Vinyl chloride	ND	ug/m3	0.036	0.011	1.39		02/22/16 09:38	75-01-4	

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QUALITY CONTROL DATA

Project: Whirlpool Air Mont.
Pace Project No.: 60213392

QC Batch: AIR/25275 Analysis Method: TO-15 by SIM
QC Batch Method: TO-15 by SIM Analysis Description: TO-15 GC/MSV AIR SIM
Associated Lab Samples: 60213392001, 60213392002, 60213392003, 60213392004, 60213392005, 60213392006, 60213392007, 60213392008

METHOD BLANK: 2195843 Matrix: Air
Associated Lab Samples: 60213392001, 60213392002, 60213392003, 60213392004, 60213392005, 60213392006, 60213392007, 60213392008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.056	0.0044	02/21/16 19:00	
1,1-Dichloroethane	ug/m3	ND	0.041	0.0048	02/21/16 19:00	
1,1-Dichloroethene	ug/m3	ND	0.81	0.24	02/21/16 19:00	
1,2-Dichloroethane	ug/m3	ND	0.041	0.0046	02/21/16 19:00	
cis-1,2-Dichloroethene	ug/m3	ND	0.040	0.0066	02/21/16 19:00	
Tetrachloroethene	ug/m3	ND	0.069	0.0048	02/21/16 19:00	
trans-1,2-Dichloroethene	ug/m3	ND	0.040	0.010	02/21/16 19:00	
Trichloroethene	ug/m3	ND	0.027	0.0069	02/21/16 19:00	
Vinyl chloride	ug/m3	ND	0.026	0.0077	02/21/16 19:00	

LABORATORY CONTROL SAMPLE: 2195844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	.28	0.26	94	67-143	
1,1-Dichloroethane	ug/m3	.2	0.21	103	65-138	
1,1-Dichloroethene	ug/m3	.2	ND	108	61-139	
1,2-Dichloroethane	ug/m3	.21	0.17	84	63-132	
cis-1,2-Dichloroethene	ug/m3	.2	0.17	86	64-137	
Tetrachloroethene	ug/m3	.34	0.28	83	61-134	
trans-1,2-Dichloroethene	ug/m3	.2	0.18	88	59-142	
Trichloroethene	ug/m3	.27	0.27	97	60-140	
Vinyl chloride	ug/m3	.13	0.14	110	64-142	

SAMPLE DUPLICATE: 2196085

Parameter	Units	60213333001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	0.045J	.046J		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	0.62	0.56	10	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	0.072	0.061	17	25	
Vinyl chloride	ug/m3	ND	ND		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: Whirlpool Air Mont.
Pace Project No.: 60213392

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Whirlpool Air Mont.
Pace Project No.: 60213392

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60213392001	**AA-201602**	TO-15 by SIM	AIR/25275		
60213392002	**Q1-201602**	TO-15 by SIM	AIR/25275		
60213392003	**Q2-201602**	TO-15 by SIM	AIR/25275		
60213392004	**Q3-201602**	TO-15 by SIM	AIR/25275		
60213392005	**Q3-201602 - DUP**	TO-15 by SIM	AIR/25275		
60213392006	**Q4-201602**	TO-15 by SIM	AIR/25275		
60213392007	**Q5-201602**	TO-15 by SIM	AIR/25275		
60213392008	**Q6-201602**	TO-15 by SIM	AIR/25275		

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Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 29June2015 Page 1 of 1
	Document No.: F-MN-A-106-rev.10	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Ramboll Environ

Project #: WO# : 60213392

60213392

Courier: ☒ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 8097 2664 4026, 8678 1275 2574

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: Temp Blank rec: ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): 0 Corrected Temp (°C): 0 Thermom. Used: ☐ B88A912167504 ☐ 72337080 ☐ B88A9132521491 ☐ 80512447

Temp should be above freezing to 6°C Correction Factor: 0 Date & Initials of Person Examining Contents: 2/19/16

Type of ice Received ☐ Blue ☐ Wet ☒ None

				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 and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ 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.
Media: Air Can Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
AA	1058	1060			
Q1	2101	0262			
Q2	1658	0612			
Q3	2684	1055			
Q3 Dup	1733	0512			
Q4	2809	1079			
Q5	0521	0258			
Q6	0691	1041			

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: CBL Date: 2/19/16

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)

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

23878

Page: 1 of 1

Section A Required Client Information:

Company: RAMBOLL ENVIRON
Address: 7500 COLLEGE BLVD 925
Overland PARK, KS 66210
Email To: Wstonestreet@ramboll.com
Phone: 913-553-5926 Fax:
Requested Due Date/TAT: 1 DAY

Section B Required Project Information:

Report To: tgleason@ramboll.com
Copy To: Wstonestreet@ramboll.com
Purchase Order No.:
Project Name: WHIRLPOOL AIR MONT.
Project Number:

Section C Invoice Information:

Attention: Tamara Gleason
Company Name: RAMBOLL ENVIRON
Address: 250 MONROE AVE. NW GRAND RAPIDS MICHIGAN, 49503
Pace Quote Reference:
Pace Project Manager/Sales Rep. Colleen Clyne
Pace Profile #: 7444

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☒ Other

Location of Sampling by State: AR

Reporting Units: ug/m³ ☒ mg/m³ ☐ PPBV ☒ PPMV ☐ Other

Report Level: II. ☒ III. ☐ IV. ☐ Other

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes: MEDIA / CODE — Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	Section D Required Client Information: AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START / GRAB DATE	COLLECTED COMPOSITE START / GRAB TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List: SIM	Pace Lab ID (600213392)
1	AA-201602	6LC	0	2/18/16	941	2/18/16	1541	-28	-1	1058	FC1060								X		001
2	Q1-201602	6LC	0	2/18/16	815	2/18/16	1608	-29	-2	2608	FC0262								X		002
3	Q2-201602	6LC	0	2/18/16	828	2/18/16	1615	-28.5	-2	1658	FC0012								X		003
4	Q3-201602	6LC	0	2/18/16	837	2/18/16	1620	-28	-3	2684	FC1055								X		004
5	Q3-201602-DUP	6LC	0	2/18/16	837	2/18/16	1620	-30	-4	1733	FC0512								X		005
6	Q4-201602	6LC	0	2/18/16	850	2/18/16	1629	-29	-4	2809	FC1079								X		006
7	Q5-201602	6LC	0	2/18/16	859	2/18/16	1634	-28	-4	0521	FC0258								X		007
8	Q6-201602	6LC	0	2/18/16	909	2/18/16	1638	-30	-2	0691	FC1011								X		008
9																					
10																					
11																					
12																					

Comments:
TO-15, Client Specific List

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Wendy Stonestreet / Ramboll ENVIRON	2/18/16	1800	[illegible] Price	2/19/16	1015

SAMPLE CONDITIONS

	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

Temp in °C | Received on Ice | Custody Sealed Cooler | Samples Intact

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Wendy Stonestreet
SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM / DD / YY): 2/18/16

ORIGINAL

Chain of Custody

10339118

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www.pacelabs.com

Workorder: 60213392 **Workorder Name:** Whirlpool Air Mont. **Owner Received Date:** 2/19/2016 **Results Requested By:** 2/22/2016

Report To	Subcontract To
Colleen Clyne Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Tim	Lab ID	Matrix	Preserved Containers	TO-15 SIM	LAB USE ONLY
1	AA-201602	PS	2/18/2016 15:41	60213392001	Air	1	X	
2	Q1-201602	PS	2/18/2016 16:08	60213392002	Air	1	X	
3	Q2-201602	PS	2/18/2016 16:15	60213392003	Air	1	X	
4	Q3-201602	PS	2/18/2016 16:20	60213392004	Air	1	X	
5	Q3-201602 - DUP	PS	2/18/2016 16:20	60213392005	Air	1	X	
6	Q4-201602	PS	2/18/2016 16:29	60213392006	Air	1	X	
7	Q5-201602	PS	2/18/2016 16:34	60213392007	Air	1	X	
8	Q6-201602	PS	2/18/2016 16:38	60213392008	Air	1	X	

Transfers	Released By	Date/Time	Received	Date/Time
1			Pace	2/19/16 @ 1015
2				
3				

Comments

Cooler Temperature on Receipt AMB °C Custody Seal Y or (N) Received on Ice Y or (N) Samples Intact (Y) or N

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

23878

Page: 1 of 1

Section A Required Client Information:

Company: RAMBOLL ENVIRON
Address: 7500 COLLEGE BLVD 925
Overland PARK, KS 66210
Email To: wstonestreet@ramboll.com
Phone: 913-553-5926 Fax:
Requested Due Date/TAT: 1 DAY

Section B Required Project Information:

Report To: tgleason@ramboll.com
Copy To: wstonestreet@ramboll.com
Purchase Order No.:
Project Name: WHIRLPOOL-AIR MONT.
Project Number:

Section C Invoice Information:

Attention: Tamara Gleason
Company Name: RAMBOLL-ENVIRON
Address: 250 MONROE AVE. NW GRAND RAPIDS
Pace Quote Reference: MICHIGAN, 49503
Pace Project Manager/Sales Rep. Colleen Clyne
Pace Profile #: 7444

Program: UST | Superfund | Emissions | Clean Air Act | Voluntary Clean Up | Dry Clean | RCRA X | Other

Location of Sampling by State: AR

Reporting Units: ug/m³ X | mg/m³ | PPBV X | PPMV | Other

Report Level: II. X | III. | IV. | Other

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	Section D AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List* SIM	Pace Lab ID
1	AA-201602	6LC	0	2/18/16	941	2/18/16	1541	-28	-1	1058	FC10600								X		
2	Q1-201602	6LC	0	2/18/16	815	2/18/16	1608	-29	-2	2808	FC02602								X		
3	Q2-201602	6LC	0	2/18/16	828	2/18/16	1615	-28.5	-2	1658	FC00102								X		
4	Q3-201602	6LC	0	2/18/16	837	2/18/16	1620	-28	-3	2684	FC10555								X		
5	Q3-201602-DUP	6LC	0	2/18/16	837	2/18/16	1620	-30	-4	1733	FC05102								X		
6	Q4-201602	6LC	0	2/18/16	850	2/18/16	1629	-29	-4	2809	FC10799								X		
7	Q5-201602	6LC	0	2/18/16	859	2/18/16	1634	-28	-4	0521	FC02588								X		
8	Q6-201602	6LC	0	2/18/16	909	2/18/16	1638	-30	-2	0691	FC10111								X		
9																					
10																					
11																					
12																					

Comments:
TO-15, Client Specific List

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Wendy Stonestreet/Ramboll ENVIRON	2/18/16	1800	[illegible] Pace	2/19/16	1015

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wendy Stonestreet
SIGNATURE of SAMPLER: Wendy Stonestreet DATE Signed (MM / DD / YY): 2/18/16

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 29June2015 Page 1 of 1
	Document No.: F-MN-A-106-rev.10	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Ramboll Environ **Project #:** WO#: 10339118

10339118

Courier: ☑ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 8097 2664 4026, 8678 1275 2574

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): 0 **Corrected Temp (°C):** 0 **Thermom. Used:** ☐ B88A912167504 ☐ B88A9132521491 ☐ 72337080 ☐ 80512447

Temp should be above freezing to 6°C **Correction Factor:** 0 **Date & Initials of Person Examining Contents:** 02 19 16

Type of ice Received ☐ Blue ☐ Wet ☒ None

				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 and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ 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.
Media: Air Can Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
AA	1058	1060			
Q1	2101	0262			
Q2	1658	0012			
Q3	2684	1655			
Q3 Dup	1733	0512			
Q4	2809	1079			
Q5	0521	0258			
Q6	0691	1014			

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: JD **Date:** 02/19/16

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)

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

March 14, 2016

Wendy Stonestreet
Ramboll Environ
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: Whirlpool Air Mont.
Pace Project No.: 60213886

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on February 27, 2016. 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.

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

Sincerely,

Colleen Clyne
colleen.clyne@pacelabs.com
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ

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CERTIFICATIONS

Project: Whirlpool Air Mont.
Pace Project No.: 60213886

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Whirlpool Air Mont.
Pace Project No.: 60213886

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60213886001	**Q1-SS-201602-DUP**	Air	02/25/16 16:40	02/27/16 10:20
60213886002	**Q2-SS-201602**	Air	02/25/16 17:30	02/27/16 10:20
60213886003	**Q3-SS-201602**	Air	02/25/16 18:10	02/27/16 10:20
60213886004	**Q4-SS-201602**	Air	02/25/16 15:45	02/27/16 10:20
60213886005	**Q5-SS-201602**	Air	02/25/16 19:00	02/27/16 10:20
60213886006	**Q6-SS-201602**	Air	02/25/16 19:45	02/27/16 10:20
60213886007	**Q1-SS-201602**	Air	02/25/16 16:40	02/27/16 10:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Whirlpool Air Mont.
Pace Project No.: 60213886

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60213886001	**Q1-SS-201602-DUP**	TO-15	DR1	9	PASI-M
60213886002	**Q2-SS-201602**	TO-15	DR1	9	PASI-M
60213886003	**Q3-SS-201602**	TO-15	DR1	9	PASI-M
60213886004	**Q4-SS-201602**	TO-15	DR1	9	PASI-M
60213886005	**Q5-SS-201602**	TO-15	DR1	9	PASI-M
60213886006	**Q6-SS-201602**	TO-15	DR1	9	PASI-M
60213886007	**Q1-SS-201602**	TO-15	DR1	9	PASI-M

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PROJECT NARRATIVE

Project: Whirlpool Air Mont.
Pace Project No.: 60213886

Date: March 14, 2016

Q3-SS-201602 (Lab ID: 60213886003)

- A3: This result is reported from a serial dilution.

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Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: Whirlpool Air Mont.
Pace Project No.: 60213886

Method: **TO-15**
Description: TO15 MSV AIR
Client: Environ_AR
Date: March 14, 2016

General Information:
7 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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(913)599-5665

ANALYTICAL RESULTS

Project: Whirlpool Air Mont.
Pace Project No.: 60213886

Sample: Q1-SS-201602-DUP **Lab ID: 60213886001** Collected: 02/25/16 16:40 Received: 02/27/16 10:20 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethane	ND	ug/m3	1.6	0.31	2		03/10/16 20:15	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.82	0.41	2		03/10/16 20:15	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.6	0.48	2		03/10/16 20:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.6	0.49	2		03/10/16 20:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.6	0.77	2		03/10/16 20:15	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	0.56	2		03/10/16 20:15	127-18-4	
1,1,1-Trichloroethane	**64.0**	ug/m3	2.2	0.49	2		03/10/16 20:15	71-55-6	
Trichloroethene	ND	ug/m3	1.1	0.55	2		03/10/16 20:15	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	0.39	2		03/10/16 20:15	75-01-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Whirlpool Air Mont.
Pace Project No.: 60213886

Sample: Q2-SS-201602 **Lab ID: 60213886002** Collected: 02/25/16 17:30 Received: 02/27/16 10:20 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethane	ND	ug/m3	1.3	0.25	1.61		03/10/16 22:02	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.66	0.33	1.61		03/10/16 22:02	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	0.38	1.61		03/10/16 22:02	75-35-4	
cis-1,2-Dichloroethene	**2.2**	ug/m3	1.3	0.40	1.61		03/10/16 22:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	0.62	1.61		03/10/16 22:02	156-60-5	
Tetrachloroethene	**0.75J**	ug/m3	1.1	0.45	1.61		03/10/16 22:02	127-18-4	
1,1,1-Trichloroethane	**132**	ug/m3	1.8	0.40	1.61		03/10/16 22:02	71-55-6	
Trichloroethene	**552**	ug/m3	4.4	2.2	8.05		03/10/16 22:25	79-01-6	
Vinyl chloride	ND	ug/m3	0.42	0.31	1.61		03/10/16 22:02	75-01-4	

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ANALYTICAL RESULTS

Project: Whirlpool Air Mont.
Pace Project No.: 60213886

Sample: Q3-SS-201602 **Lab ID: 60213886003** Collected: 02/25/16 18:10 Received: 02/27/16 10:20 Matrix: Air

Comments: • This result is reported from a serial dilution.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethane	**131J**	ug/m3	407	77.9	496		03/10/16 23:10	75-34-3	
1,2-Dichloroethane	ND	ug/m3	203	102	496		03/10/16 23:10	107-06-2	
1,1-Dichloroethene	ND	ug/m3	402	118	496		03/10/16 23:10	75-35-4	
cis-1,2-Dichloroethene	**4150**	ug/m3	402	122	496		03/10/16 23:10	156-59-2	
trans-1,2-Dichloroethene	**673**	ug/m3	402	190	496		03/10/16 23:10	156-60-5	
Tetrachloroethene	ND	ug/m3	342	138	496		03/10/16 23:10	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	551	123	496		03/10/16 23:10	71-55-6	
Trichloroethene	ND	ug/m3	273	137	496		03/10/16 23:10	79-01-6	
Vinyl chloride	**60000**	ug/m3	516	387	1984		03/11/16 15:21	75-01-4	

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ANALYTICAL RESULTS

Project: Whirlpool Air Mont.
Pace Project No.: 60213886

Sample: Q4-SS-201602 **Lab ID: 60213886004** Collected: 02/25/16 15:45 Received: 02/27/16 10:20 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.49		03/10/16 20:41	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	0.31	1.49		03/10/16 20:41	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.35	1.49		03/10/16 20:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.37	1.49		03/10/16 20:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.57	1.49		03/10/16 20:41	156-60-5	
Tetrachloroethene	ND	ug/m3	1.0	0.41	1.49		03/10/16 20:41	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.7	0.37	1.49		03/10/16 20:41	71-55-6	
Trichloroethene	ND	ug/m3	0.82	0.41	1.49		03/10/16 20:41	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	0.29	1.49		03/10/16 20:41	75-01-4	

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ANALYTICAL RESULTS

Project: Whirlpool Air Mont.
Pace Project No.: 60213886

Sample: Q5-SS-201602 **Lab ID: 60213886005** Collected: 02/25/16 19:00 Received: 02/27/16 10:20 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethane	ND	ug/m3	26.4	5.1	32.2		03/10/16 22:48	75-34-3	
1,2-Dichloroethane	ND	ug/m3	13.2	6.6	32.2		03/10/16 22:48	107-06-2	
1,1-Dichloroethene	ND	ug/m3	26.1	7.7	32.2		03/10/16 22:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	26.1	7.9	32.2		03/10/16 22:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	26.1	12.4	32.2		03/10/16 22:48	156-60-5	
Tetrachloroethene	**13.3J**	ug/m3	22.2	9.0	32.2		03/10/16 22:48	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	35.7	8.0	32.2		03/10/16 22:48	71-55-6	
Trichloroethene	**1590**	ug/m3	17.7	8.9	32.2		03/10/16 22:48	79-01-6	
Vinyl chloride	ND	ug/m3	8.4	6.3	32.2		03/10/16 22:48	75-01-4	

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ANALYTICAL RESULTS

Project: Whirlpool Air Mont.
Pace Project No.: 60213886

Sample: Q6-SS-201602 **Lab ID: 60213886006** Collected: 02/25/16 19:45 Received: 02/27/16 10:20 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethane	ND	ug/m3	1.3	0.24	1.55		03/10/16 21:35	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.64	0.32	1.55		03/10/16 21:35	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	0.37	1.55		03/10/16 21:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	0.38	1.55		03/10/16 21:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	0.60	1.55		03/10/16 21:35	156-60-5	
Tetrachloroethene	**1.3**	ug/m3	1.1	0.43	1.55		03/10/16 21:35	127-18-4	
1,1,1-Trichloroethane	**17.7**	ug/m3	1.7	0.38	1.55		03/10/16 21:35	71-55-6	
Trichloroethene	ND	ug/m3	0.85	0.43	1.55		03/10/16 21:35	79-01-6	
Vinyl chloride	ND	ug/m3	0.40	0.30	1.55		03/10/16 21:35	75-01-4	

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ANALYTICAL RESULTS

Project: Whirlpool Air Mont.
Pace Project No.: 60213886

Sample: Q1-SS-201602 **Lab ID: 60213886007** Collected: 02/25/16 16:40 Received: 02/27/16 10:20 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.49		03/10/16 21:08	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	0.31	1.49		03/10/16 21:08	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.35	1.49		03/10/16 21:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.37	1.49		03/10/16 21:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.57	1.49		03/10/16 21:08	156-60-5	
Tetrachloroethene	ND	ug/m3	1.0	0.41	1.49		03/10/16 21:08	127-18-4	
1,1,1-Trichloroethane	**86.1**	ug/m3	1.7	0.37	1.49		03/10/16 21:08	71-55-6	
Trichloroethene	ND	ug/m3	0.82	0.41	1.49		03/10/16 21:08	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	0.29	1.49		03/10/16 21:08	75-01-4	

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QUALITY CONTROL DATA

Project: Whirlpool Air Mont.
Pace Project No.: 60213886

QC Batch: AIR/25416 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 60213886001, 60213886002, 60213886003, 60213886004, 60213886005, 60213886006, 60213886007

METHOD BLANK: 2208084 Matrix: Air
Associated Lab Samples: 60213886001, 60213886002, 60213886003, 60213886004, 60213886005, 60213886006, 60213886007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	0.25	03/10/16 18:27	
1,1-Dichloroethane	ug/m3	ND	0.82	0.16	03/10/16 18:27	
1,1-Dichloroethene	ug/m3	ND	0.81	0.24	03/10/16 18:27	
1,2-Dichloroethane	ug/m3	ND	0.41	0.20	03/10/16 18:27	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	0.25	03/10/16 18:27	
Tetrachloroethene	ug/m3	ND	0.69	0.28	03/10/16 18:27	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	0.38	03/10/16 18:27	
Trichloroethene	ug/m3	ND	0.55	0.28	03/10/16 18:27	
Vinyl chloride	ug/m3	ND	0.26	0.20	03/10/16 18:27	

LABORATORY CONTROL SAMPLE: 2208085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	48.8	88	60-143	
1,1-Dichloroethane	ug/m3	41.2	35.9	87	62-139	
1,1-Dichloroethene	ug/m3	40.3	36.6	91	62-135	
1,2-Dichloroethane	ug/m3	41.2	35.6	86	61-144	
cis-1,2-Dichloroethene	ug/m3	40.3	39.6	98	65-139	
Tetrachloroethene	ug/m3	69	69.1	100	60-142	
trans-1,2-Dichloroethene	ug/m3	40.3	38.8	96	67-137	
Trichloroethene	ug/m3	54.6	52.9	97	60-144	
Vinyl chloride	ug/m3	26	23.7	91	63-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Whirlpool Air Mont.
Pace Project No.: 60213886

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Whirlpool Air Mont.
Pace Project No.: 60213886

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60213886001	**Q1-SS-201602-DUP**	TO-15	AIR/25416		
60213886002	**Q2-SS-201602**	TO-15	AIR/25416		
60213886003	**Q3-SS-201602**	TO-15	AIR/25416		
60213886004	**Q4-SS-201602**	TO-15	AIR/25416		
60213886005	**Q5-SS-201602**	TO-15	AIR/25416		
60213886006	**Q6-SS-201602**	TO-15	AIR/25416		
60213886007	**Q1-SS-201602**	TO-15	AIR/25416		

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WO# : 60213886

60213886

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AIR: CHAIN-OF-CUSTODY / Ana

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields r

24000

Page: 1 of 1

Section A Required Client Information:

Company: Ramboll Environ
Address: 7500 College Blvd Suite 925, Overland Park KS 66210
Email To: wstonestreet@ramboll.com
Phone: 913-553-9123 Fax:
Requested Due Date/TAT: standard

Section B Required Project Information:

Report To: tgleason@ramboll.com
Copy To: wstonestreet@ramboll.com
Purchase Order No.:
Project Name: Whirlpool Air Mont.
Project Number:

Section C Invoice Information:

Attention: Tamara Gleason
Company Name: Ramboll Environ
Address: 250 Monroe Ave, NW Grand Rapids Michigan, 49503
Pace Quote Reference:
Pace Project Manager/Sales Rep. Colleen Clyne
Pace Profile #: 7444

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☒ Other

Location of Sampling by State: AR

Reporting Units: ug/m³ ☒ mg/m³ ☐ PPBV ☒ PPMV ☐ Other

Report Level: II. ☒ III. ☐ IV. ☐ Other

ITEM #	Section D Required Client Information / AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start/Grab DATE	COLLECTED Composite Start/Grab TIME	COLLECTED Composite End DATE	COLLECTED Composite End TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List* SIM	Pace Lab ID
1	Q1-SS-20160202-DUP	6LC	0	2/25/16	10.00	2/25/16	16.40	29.5	5.5	1480	FC00554								X		001
2	Q2-SS-20160202	6LC	0	2/25/16	10.57	2/25/16	17.30	28	5	2062	FC03852								X		002
3	Q3-SS-20160202	6LC	0.1	2/25/16	11.43	2/25/16	18.10	30	5	2755	FC03952								X		003
4	Q4-SS-20160202	6LC	0.7	2/25/16	08.42	2/25/16	15.45	30	6	2140	FC04344								X		004
5	Q5-SS-20160202	6LC	0	2/25/16	12.25	2/25/16	19.00	30	5.5	3708	FC00116								X		005
6	Q6-SS-20160202	6LC	1.1	2/25/16	13.04	2/25/16	19.45	29	5.5	2829	FC01002								X		006
7	Q1-SS-20160202	6LC	0	2/25/16	10.00	2/25/16	16.40	29.5	5.5	1602	FC00554								X		007
8																					
9																					
10																					
11																					
12																					

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

Comments:

TO-15, Client Specific List

* Per Nick - add 3C Helium to Samples. COC 2/29/16

ORIGINAL

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] /Ramboll Environ	2/26/16	1445	[signature]	2/29/16	10:20

SAMPLE CONDITIONS

—	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp In °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2/26/16

Chain of Custody

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10340017

Workorder: 60213886 **Workorder Name:** Whirlpool Air Mont. **Owner Received Date:** 2/27/2016 **Results Requested By:** 3/10/2016

Report To	Subcontract To
Colleen Clyne Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Tim	Lab ID	Matrix	Preserved Containers	TO-15 SIM*	3C Helium	LAB USE ONLY
1	Q1-SS-201602-DUP	PS	2/25/2016 16:40	60213886001	Air	2	X	X	001
2	Q2-SS-201602	PS	2/25/2016 17:30	60213886002	Air	2	X	X	002
3	Q3-SS-201602	PS	2/25/2016 18:10	60213886003	Air	2	X	X	003
4	Q4-SS-201602	PS	2/25/2016 15:45	60213886004	Air	2	X	X	004
5	Q5-SS-201602	PS	2/25/2016 19:00	60213886005	Air	2	X	X	005
6	Q6-SS-201602	PS	2/25/2016 19:45	60213886006	Air	2	X	X	006
7	Q1-SS-201602	PS	2/25/2016 16:40	60213886007	Air	2	X	X	007

Transfers	Released By	Date/Time	Received	Date/Time
1			Face	2/29/16 1000
2				
3				

Comments

*Custom List (attached)

Cooler Temperature on Receipt ~ °C **Custody Seal** Y or (N) **Received on Ice** Y or (N) **Samples Intact** (Y) or N

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Page: 1 of 1

Section A Required Client Information:

Company: Ramboll Environ
Address: 7500 College Blvd Suite 925, Overland Park KS 66210
Email To: WStonestreet@ramboll.com
Phone: 913-553-5923 Fax:
Requested Due Date/TAT: standard

Section B Required Project Information:

Report To: tgleason@ramboll.com
Copy To: WStonestreet@ramboll.com
Purchase Order No.:
Project Name: Whirlpool Air Mont.
Project Number:

Section C Invoice Information:

Attention: Tamara Gleason
Company Name: Ramboll Environ
Address: 250 Monroe Ave. NW Grand Rapids Michigan, 49503
Pace Quote Reference:
Pace Project Manager/Sales Rep. Colleen Clyne
Pace Profile #: 7444

Program: UST | Superfund | Emissions | Clean Air Act | Voluntary Clean Up | Dry Clean | RCRA | X Other

Location of Sampling by State: AR

Reporting Units: X ug/m³ mg/m³ | X PPBV PPMV | Other

Report Level: II. X III. IV. Other

ITEM #	'Section D Required Client Information AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List* SIM	Pace Lab ID
1	Q1 - SS - 20160202 - DUP	6LC	0	2/25/16	10.00	2/25/16	1640	29.5	5.5	1480	FC0054								X		
2	Q2 - SS - 20160202	6LC	0	2/25/16	1057	2/25/16	1730	28	5	2062	FC0382								X		
3	Q3 - SS - 20160202	6LC	0.1	2/25/16	1143	2/25/16	18:10	30	5	2755	FC0392								X		
4	Q4 - SS - 20160202	6LC	0.7	2/25/16	08.42	2/25/16	1545	30	6	2140	FC0434								X		
5	Q5 - SS - 20160202	6LC	0	2/25/16	12.25	2/25/16	1900	30	5.5	3708	FC0016								X		
6	Q6 - SS - 20160202	6LC	1.1	2/25/16	1304	2/25/16	1945	29	5.5	2829	FC0102								X		
7	Q1 - SS - 20160202	6LC	0	2/25/16	10.00	2/25/16	16.40	29.5	5.5	1602	FC0054								X		
8																					
9																					
10																					
11																					
12																					

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

Comments:

TO-15, Client Specific List

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Ramboll Environ	2/26/16	1445		2/29/16	1020

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
—	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 2/26/16

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 29June2015 Page 1 of 1
	Document No.: F-MN-A-106-rev.10	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Ramboll Environ **Project #:** WO# : 10340012

10340012

Courier: ☑ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 782470234150, 8047 3340 7081

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): X **Corrected Temp (°C):** 1 **Thermom. Used:** ☐ B88A912167504 ☐ B88A9132521491 ☐ 72337080 ☐ 80512447

Temp should be above freezing to 6°C **Correction Factor:** 1 **Date & Initials of Person Examining Contents:** MH 2/29/16

Type of ice Received ☐ Blue ☐ Wet ☑ None

				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 and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ 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.
Media: Air Can Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☐ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
Q1-SS-201602-Dup	1480	0054			
Q2-SS-201602	2062	0382			
Q3-SS-201602	2755	0392			
Q4-SS-201602	2140	0434			
Q5-SS-201602	2708	0016			
Q6-SS-201602	2829	0102			
Q1-SS-201602	1602	0054			

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Colleen Date/Time: 02/29/16

Comments/Resolution: Added 3C(He) per Colleen / client.

Per Tamara cancel 3C Helium analysis. CBC 03/01/16

Project Manager Review: CBC **Date:** 03/01/16

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)