December 8, 2014

Mr. Mostafa Mehran
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, Arkansas 72118

Re: Northeast Corner Investigation Report
Whirlpool Corporation
Fort Smith, Arkansas
EPA No. ARD042755389
AFIN No. 66-00048
CAO LIS 13-202

Dear Mr. Mehran:

This Northeast Corner Investigation Report presents a summary of the three phases of investigation to identify and delineate trichloroethene (TCE) impacts at and near the northeast corner of the Whirlpool Corporation (Whirlpool) facility in Fort Smith, Arkansas. The investigation included an assessment of TCE impacts in soil and groundwater on the Whirlpool property and at the nearby Boys and Girls Club and city of Fort Smith properties. This report addresses comments provided in the November 3, 2014, comment letter from the Arkansas Department of Environmental Quality (ADEQ) regarding the Boys and Girls Club Initial Report of Findings dated August 28, 2014.

In Phase 1 of the investigation, five new monitoring wells were installed near the northeast corner of the former Whirlpool manufacturing facility during the week of June 23, 2014. These new wells (MW-87 through MW-91) provided additional data to supplement the existing interior membrane interface probe (MIPs) and soil probe data as described in our June 20, 2014, letter to ADEQ and discussed at the July 8, 2014, Fort Smith City Directors' Study Session. The results of soil samples collected while installing these new wells found no TCE soil contamination. TCE was detected in groundwater in samples taken from three of these five wells. In comparison, the TCE concentrations in groundwater at the northeast corner of the Whirlpool property were significantly lower than concentrations measured at the northwest corner.

Phase 2 of the investigation consisted of additional activities to determine whether TCE detected in the groundwater at the northeast corner had migrated under Jenny Lind Road and if so, whether this groundwater had also migrated under the undeveloped property owned by the Boys and Girls Club (soon to be separated from the Boys and Girls Club by the upcoming Ingersoll Avenue road expansion project). MIPs for screening soil and groundwater and soil probes for collection of soil and groundwater samples for laboratory analysis were performed in August 2014 to investigate areas north and east beyond the Whirlpool property. No TCE soil contamination was identified at offsite locations. In addition, the extent of groundwater impact on the Boys and Girls Club and city of Fort Smith properties was delineated. Limited TCE impact to

groundwater has been identified extending on to the Boys and Girls Club property at concentrations up to 6.8 micrograms per liter (µg/L).

In Phase 3 of the investigation, permanent groundwater monitoring wells were installed on the Boys and Girls Club property in October 2014 to continue monitoring offsite groundwater conditions at the northeast corner.

There are no known complete exposure pathways for the limited areas of impacted groundwater extending northeast from the Whirlpool property to cause health risk concerns. No impacted soil has been identified outside the Whirlpool property. Although there is limited TCE impact to groundwater at the two undeveloped neighboring properties adjacent to the northeast corner of the Whirlpool property, there is no current groundwater use. This investigation provided additional data to further validate health risk conclusions for onsite and offsite workers and future occupants of the undeveloped properties east of the Whirlpool property.

OVERVIEW

The objective of this investigation was to delineate the extent of TCE impact in the soil and groundwater extending north and east from the Whirlpool property based upon the TCE impacts identified at interior MIP M-251 and interior soil probe DP-22 at the northeast corner of the former manufacturing building in January 2014.

The investigation was performed in three phases. The initial phase consisted of five new groundwater monitoring wells on the Whirlpool property (MW-87 through MW-91) (June 20, 2014, correspondence with ADEQ described the installation of the five new monitoring wells installed on the Whirlpool property). The scope of the second phase of the investigation was described in the Northeast Corner Supplemental Work Plan dated July 29, 2014. The second phase included MIPs to screen soil and groundwater and soil probes for collection of soil and groundwater samples for laboratory analysis at locations on the Whirlpool property and at offsite locations on the Boys and Girls Club and city of Fort Smith properties. The second phase also included collection of surface water and sediment samples from the drainage ditch at the northeast corner of intersection of Jenny Lind Road and Ingersoll Avenue. The third phase included installation of permanent monitoring wells on the Boys and Girls Club property in October 2014 for future groundwater monitoring.

Collectively, the investigation has included the following:

- Seventeen MIPs (used for preliminary soil and groundwater screening) on the Whirlpool, Boys and Girls Club and city of Fort Smith properties (Appendix B provides MIP logs);
- Fourteen soil probes for collection of soil and groundwater samples for laboratory analysis on the Whirlpool, Boys and Girls Club and city of Fort Smith properties (DP-40 through DP-53);
- Five new groundwater monitoring wells on the Whirlpool property (MW-87 through MW-91) and four groundwater monitoring wells on the Boys and Girls Club property (MW-96 through MW-99);

- One surface water sample from the Whirlpool discharge to the drainage ditch northeast of the intersection of Jenny Lind Road and Ingersoll Avenue; and
- Three sediment samples from the drainage ditch.

The nine monitoring wells and 14 soil probes facilitated collection of 44 soil samples and 19 groundwater samples to confirm no TCE impact to soil at the northeast corner exists and to delineate the limited extent of groundwater TCE impact extending north and east from the Whirlpool property to the Boys and Girls Club property.

In addition, surface water and sediment samples were collected from the drainage ditch located at the northeast corner of the intersection of Jenny Lind Road and Ingersoll Avenue. This drainage ditch flows east toward Mill Creek from Ingersoll Avenue and is located south of the Boys and Girls Club parking lot. No TCE impacts to surface water or sediments were identified during the investigation (See Appendix D).

FIRST PHASE OF INVESTIGATION (June 2014)

In the first phase of the investigation, conducted in June 2014, five monitoring wells were installed and sampled on the Whirlpool property (MW-87 through MW-91). Appendix A provides boring logs and well construction diagrams. TCE was not detected in MW-88 and MW-90, located directly north of the northeast corner of the Whirlpool manufacturing building (Table 1). TCE was detected at 19.5 µg/L in groundwater at MW-89, located at the northeast corner of the Whirlpool property and TCE was also detected in groundwater at MW-87 and MW-91, at 564 µg/L and 234 µg/L, respectively. Seven soil samples were also collected from the soil borings for installation of these five wells (Table 2). TCE was not detected in any of the seven soil samples. The laboratory reports are provided as Appendix C.

SECOND PHASE OF INVESTIGATION (August 2014)

MIPs and soil probes were used to continue to investigate the extent of TCE impacts in groundwater at the northeast corner in August 2014. Fourteen soil probes resulted in the collection of 37 soil and 14 groundwater samples on the Whirlpool, Boys and Girls Club and city of Fort Smith properties. Only groundwater samples from DP-40, DP-42 and DP-45 detected TCE at concentrations ranging from 3.2 µg/L at DP-40 to 6.8 µg/L at DP-45 [Remedial Action Level (RAL) for TCE is 5 µg/L as identified in the Remedial Action Decision Document (RADD)]. Groundwater data collected from the soil probes is presented on Figure 1.

No TCE or chlorinated solvents were detected in soil samples collected during the second phase of the investigation (see Table 2 – June and August 2014). Low concentrations of acetone (a typical laboratory artifact) and bromomethane and bromoform (inadvertent by-products of chlorination of drinking water) were detected in select soil samples. These constituents are not associated with the Whirlpool property and pose no risks at the concentrations detected in soil samples. Sample collection intervals were based on MIP screening results, visual observations and/or location within the subsurface (i.e. Vadose Zone,

saturated zone, etc.). Soil samples were collected utilizing 5035 kits for volatile organic compound (VOC) analysis using EPA Method 8260. Soil samples were submitted to Pace Analytical Laboratory for analysis.

No TCE or chlorinated solvents were detected in the surface water sample collected from the surface water discharge to the northeast drainage ditch during a rain storm on the evening of Monday, August 18, 2014. No TCE or chlorinated solvents were detected in three sediment samples collected from the drainage ditch on Wednesday, August 20, 2014. The location of these samples and associated analytical results are presented in the report Surface Water and Sediment Sampling near Whirlpool Facility dated September 18, 2014. This report was subsequently approved by ADEQ on October 14, 2014 (Appendix D).

THIRD PHASE OF INVESTIGATION, MONITORING WELL INSTALLATION (October 2014)

MW-96 through MW-99 were installed at the locations as identified in Figure 2 on October 15-16, 2014. The boring logs completed at each of the four well locations are included as Appendix A.

These monitoring wells were installed to coincide with previous MIP and soil probe performed at the respective locations:

Direct Push Sample Point (Sampled Interval)	Permanent Well ID
M-313/DP-41 (4.0, 10.0, 14.0)	MW-98
M-315/DP-44 (4.0, 11.0, 18.0, 21.5)	MW-99
M-326A/DP-48 (4.0, 11.5)	MW-96
M-332/DP-52 (4.0, 10.0)	MW-97

Monitoring wells were installed to the surface of bedrock. Wells were constructed with 5 feet of 2 inch diameter; 0.01 inch slot schedule 40 PVC screen and 2 inch diameter, solid schedule 40 PVC riser pipe to the surface. A 20/40 grade sand pack was installed in the well annulus, around the PVC screen to approximately 2 feet above the top of the screen followed by an annular seal consisting of hydrated, granular bentonite above the top of the sand pack. Bentonite/cement grout was placed in the annular space above the seal to near the surface. The monitoring wells were completed with flush-mount well protectors set in concrete with bolted covers to preclude access from visitors to the Boys and Girls Club facility. Soil boring and well construction logs are provided in Appendix A.

The wells were developed after sufficient groundwater was present in the monitoring wells which required a minimum of 48 hours. These wells were purged dry once during well development, but the wells did not produce sufficient water to facilitate further development.

The wells were minimally purged prior to collection of groundwater samples due to the lack of water present in these wells. Groundwater samples were collected for laboratory analysis using low-flow sampling techniques. All groundwater samples were submitted to PACE Analytical Services (Lenexa, Kansas) for analysis of VOCs by SW486 Method 8260B. Analytical results are provided in Appendix B.

The soil cuttings generated from drilling activities were containerized in labeled 55 gallon steel drums and staged on the Whirlpool site for future disposal by the facility. Water generated from groundwater sampling was containerized in labeled totes for future disposal.

Water levels were measured on November 24-25, 2014, to insure water levels in the new wells on the Boys and Girls Club property stabilized. Figure 2 provides the potentiometric surface for the northeast corner.

RESULTS OF THE INVESTIGATION

Discussion of Hydrogeologic Conditions

Based upon November 2014 water level measurements, the potentiometric surface at the northeast corner indicates a flow direction and gradient that is predominantly to the east/northeast. (See Figure 2). This flow direction is generally consistent with the flow direction measured in June 2014 after installing the wells at the northeast corner on the Whirlpool property.

In the area from the northeast corner of the Whirlpool manufacturing building towards the Boys and Girls Club property, the shallow soils consist primarily of clay. A few pockets or seams of clayey gravel are present and have been identified in previous reports as the Basal Transmissive Zone; although, these seams are not continuous. Based upon review of boring logs and cross-sections, the Basal Transmissive Zone is not present at all locations investigated at the northeast corner. The Basal Transmissive Zone is not present at DP-41/MW-98, DP-43, DP-48/MW-96, DP-50, DP-51, DP-52/MW-97, DP-53, MW-89 and MW-90. MW-89 is located at a slight bedrock elevation high (compared with surrounding monitoring wells) and although the Basal Transmissive Zone is absent at this location, the boring log notes some sand and gravel present in the clay. The Basal Transmissive Zone is present as a thin layer at DP-44/MW-99, DP-49 and MW-88 (Basal Transmissive Zone is present but dry).

Quarterly monitoring will be performed for all monitoring wells at the northeast corner (MW-87 through MW-91 and MW-96 through MW-99) during the next year (sampling will coincide with the quarterly monitoring required by the RADD) to confirm the groundwater flow direction and gradient remains consistent.

Results of Soil and Groundwater Sampling

No TCE impact to soil has been identified at the northeast corner of the Whirlpool property or at any offsite properties in the area of the northeast corner. Soil samples at DP-41, DP-44, DP-48

and DP-52 did contain low concentrations of acetone (a typical laboratory artifact) and bromomethane and bromoform (common byproducts from chlorination of drinking water).

TCE impacts to groundwater were delineated during the second phase of the investigation in August 2014. With the exception of MW-89, no TCE was detected in groundwater at locations where the Basal Transmissive Zone was absent. At MW-89, TCE concentrations in groundwater were low but still above the RAL (19.5 µg/L in June 2014 and 11.3 µg/L in October 2014). Although the presence of TCE in groundwater is generally linked to the presence of the Basal Transmissive Zone, the offsite TCE impacts were limited to the detection of TCE at soil probes DP-40, DP-42 and DP-45 at concentrations ranging from 3.7 µg/L to 6.8 µg/L

No TCE was detected in groundwater samples from MW-88 and MW-90 (based upon groundwater sampling events in June and October 2014) and MW-96 through MW-99 (based upon groundwater samples from soil probes in August 2014 and groundwater samples from the respective wells in October 2014). TCE was detected in groundwater in:

- MW-89 at 11.3 µg/L in October 2014 compared to 19.5 µg/L in June 2014;
- MW-91 at 319 µg/L in October 2014 compared to 234 µg/L in June 2014; and
- MW-87 at 594 µg/L in October 2014 compared to 564 µg/L in June 2014.

The TCE concentrations in groundwater at MW-87 and MW-91 increased slightly in October 2014 compared with the June 2014 sampling event, and decreased in MW-89 during the same monitoring periods.

Quarterly monitoring will be performed for all monitoring wells at the northeast corner (MW-87 through MW-91 and MW-96 through MW-99) during the next year (sampling will coincide with the quarterly monitoring required by the RADD). Recommendations for additional monitoring wells, if necessary, and modifications to the monitoring schedule will be presented after the 2015 Third Quarter Monitoring Event (four quarters of monitoring). Conclusions regarding plume expansion should be based upon a year of quarterly monitoring results. The groundwater monitoring wells will continue to be used to monitor the extent of groundwater impacts at the current locations and these locations are not anticipated to be damaged during pending Jenny Lind Road and Ingersoll Avenue road construction projects.

The extent of groundwater impact has been delineated. Groundwater monitoring will continue to confirm the characterization and delineation of groundwater impacts in this area. Variability of TCE concentrations in groundwater is anticipated and has already occurred based upon comparison of the June and October 2014 sampling results. Further monitoring will be performed to assess plume stability; a minimum of four monitoring events is required to statistically assess stability.

CONCLUSIONS

Conclusions regarding TCE impacts at the northeast corner of the Whirlpool property are based upon the three phase investigation performed in the area between June and October 2014.

- The groundwater flow direction at the northeast corner of the Whirlpool property and the nearby Boys and Girls Club and City of Fort Smith properties is east northeast.
- The groundwater and soil data confirm that the TCE impacts present at the northeast corner have been delineated.
- No TCE was detected in any of the 44 soil samples collected during the various phases of investigation.
- No TCE was detected in groundwater samples from MW-88 and MW-90 (based upon groundwater sampling events in June and October 2014) and MW-96 through MW-99 (based upon groundwater samples from soil probes in August 2014 and groundwater samples from the respective wells in October 2014).
- TCE was detected in groundwater in MW-89 at 11.3 µg/L indicating a slight decrease in TCE concentration compared to the results from June 2014 monitoring event (19.5 µg/L vs. 11.3 µg/L).
- The TCE concentrations in groundwater at MW-87 and MW-91 increased slightly in October 2014 compared with the June 2014 sampling event. The TCE concentration in MW-87 increased from 564 µg/L in June 2014 to 594 µg/L in October 2014 and in MW-91 the TCE concentration increased from 234 µg/L in June 2014 to 319 µg/L in October 2014.
- There are no known complete exposure pathways to the limited areas of impacted groundwater extending northeast from the Whirlpool property to cause health risk concerns. This investigation provided additional data to further validate health risk conclusions for onsite and offsite workers and future occupants of the undeveloped properties east of the Whirlpool property.

Quarterly monitoring will be performed for all monitoring wells at the northeast corner (MW-87 through MW-91 and MW-96 through MW-99) during the next year (sampling will coincide with the quarterly monitoring required by the RADD). Recommendations for additional monitoring wells, if necessary, and modifications to the monitoring schedule will be presented after the 2015 Third Quarter Monitoring Event (four quarters of monitoring). Conclusions regarding plume expansion should be based upon a year of quarterly monitoring results. The groundwater monitoring wells will continue to be used to monitor the extent of groundwater impacts at the current locations.

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

Sincerely,

ENVIRON International Corporation

Michael F. Ellis, PE
Principal

Kerry Stonestreet, RG
Manager

LIST OF ATTACHMENTS

Table 1: Summary of Groundwater Sample Analytical Results
Table 2: Summary of Soil Sample Analytical Results

Figure 1: Northeast Corner Groundwater Direct Push Results
Figure 2: Northeast Corner Potentiometric Surface
Figure 3: Northeast Corner October 2014 Groundwater Results
Figure 4: Cross Section A-A'
Figure 5: Cross Section B-B'
Figure 6: Cross Section C-C'

Appendix A: Boring Logs – DP-22, DP-40 through DP-53, MW-87 through MW-91 and MW-96 through MW-99)
Appendix B: MIP Logs
Appendix C: Laboratory Reports
Appendix D: Surface Water and Sediment Sampling Correspondence

TABLES

TABLE 1
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
Whirlpool Corporation; Fort Smith, AR

Location	Remedial Action Levels per ADEQ RADD Issued 2014	MW-87	MW-87	MW-88	MW-88	MW-89	MW-89	MW-90	MW-90	MW-91	MW-91
ENVIRON Sample ID		20140625-GW-MW-87	MW-87-201410	20140624-GW-MW-88	MW-88-201410	20140624-GW-MW-89	MW-89-201410	20140625-GW-MW-90	MW-90-201410	20140625-GW-MW-91	MW-91-201410
Lab Sample ID		60172431001	60180642003	60172300001	60180642002	60172300002	60180642004	60172431002	60180642005	60172431003	60180642001
Sample Method											
Sample Date		06/25/2014	10/16/2014	06/24/2014	10/16/2014	06/24/2014	10/15/2014	06/25/2014	10/16/2014	06/25/2014	10/16/2014
Comments											
Volatile Organic Compounds											
Acetone	12000	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Benzene	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Bromodichloromethane	80	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Bromoform	80	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Bromomethane	7.0	U (7.0)	U (7.0)	U (7.0)	U (7.0)	U (7.0)	U (7.0)	U (7.0)	U (7.0)	U (7.0)	U (7.0)
2-Butanone	4900	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Carbon Disulfide	720	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	3.2 J (10)	U (10)	U (10)	U (10)
Carbon Tetrachloride	5	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Chlorobenzene	100	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Chloroethane	12000	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Chloroform	80	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	1.6 J (5.0)	U (5.0)	4.8 J (5.0)	U (5.0)
Chloromethane	190	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Dibromochloromethane	80	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,1-Dichloroethane	2.4	2.1 J (2.4)	2.2 J (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	0.93 J (2.4)	1.2 J (2.4)
1,2-Dichloroethane	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,1-Dichloroethene	7.0	5.8 (5.0)	6.2 (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	2.6 J (5.0)	3.5 J (5.0)
cis-1,2-Dichloroethene	70	41.8 (5.0)	47.8 (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	21.7 (5.0)	28.8 (5.0)
trans-1,2-Dichloroethene	100	4.5 J (5.0)	0.56 J (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	2.2 J (5.0)	U (5.0)
1,2-Dichloropropane	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,3-Dichloropropene (total)	0.41	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)
cis-1,3-Dichloropropene	NE	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)
trans-1,3-Dichloropropene	NE	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)
Ethyl Benzene	700	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
2-Hexanone	34	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
4-Methyl-2-pentanone	1000	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Methylene Chloride	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Styrene	100	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,1,2,2-Tetrachloroethane	0.066	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)
Tetrachloroethene	5.0	2.6 J (5.0)	2.5 J (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	1.1 J (5.0)	1.4 J (5.0)
Toluene	1000	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,1,1-Trichloroethane	200	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,1,2-Trichloroethane	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Trichloroethene	5.0	564 (50)	594 (50)	U (5.0)	U (5.0)	19.5 (5.0)	11.3 (5.0)	U (5.0)	U (5.0)	234 (25)	319 (25)
Vinyl Chloride	2.0	U (2.0)	U (2.0)	U (2.0)	U (2.0)	U (2.0)	U (2.0)	U (2.0)	U (2.0)	U (2.0)	U (2.0)
Xylenes (total)	10000	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)

Notes:

1 All concentrations are presented in ug/L.

2 Results that exceed the ALs for Fort Smith ADEQ RADD issued Dec 2013 are double underlined.

Abbreviations:

U -- Not Detected
J -- Estimated Concentration
( ) -- Reporting Limit
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environmental Quality
ug/L -- micrograms per Liter
NE -- Not Established

ENVIRON

TABLE 1
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
Whirlpool Corporation; Fort Smith, AR

Location	Remedial Action Levels per ADEQ RADD Issued 2014	MW-96	MW-97	MW-98	MW-99	DP-40	DP-41	DP-42	DP-43	DP-44	DP-45
ENVIRON Sample ID		MW-96-20141022	MW-97-20141022	MW-98-GW-20141029	MW-99-20141022	DP-40-082014	DP-41-082014	DP-42-082014	DP-43-082014	DP-44-082014	DP-45-082014
Lab Sample ID		60180994003	60180994002	60181472001	60180994002	60175526002	60175526001	60175526003	60175526004	60175526005	60175526006
Sample Method											
Sample Date		10/22/2014	10/22/2014	10/29/2014	10/22/2014	8/11/2014	8/11/2014	8/11/2014	8/11/2014	8/11/2014	8/11/2014
Comments											
Volatile Organic Compounds											
Acetone	12000	U (10)	U (10)	U (10)	U (10)	7.5 J (10)	5.9 J (10)	6.4 J (10)	6.9 J (10)	U (10)	U (10)
Benzene	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Bromodichloromethane	80	U (5.0)	U (5.0)	U (5.0)	U (5.0)	7.5 J (5.0)	5.9 J (5.0)	6.4 J (5.0)	6.9 J (5.0)	U (5.0)	U (5.0)
Bromoform	80	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Bromomethane	7.0	U (7.0)	U (7.0)	U (7.0)	U (7.0)	U (7.0)	U (7.0)	U (7.0)	U (7.0)	U (7.0)	U (7.0)
2-Butanone	4900	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Carbon Disulfide	720	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Carbon Tetrachloride	5	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Chlorobenzene	100	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)
Chloroethane	12000	U (10)	U (10)	U (10)	U (10)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Chloroform	80	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Chloromethane	190	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Dibromochloromethane	80	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,1-Dichloroethane	2.4	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)
1,2-Dichloroethane	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,1-Dichloroethene	7.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
cis-1,2-Dichloroethene	70	U (5.0)	U (5.0)	U (5.0)	U (5.0)	0.55 J (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	1.3 J (5.0)
trans-1,2-Dichloroethene	100	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,2-Dichloropropane	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,3-Dichloropropene (total)	0.41	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)
cis-1,3-Dichloropropene	NE	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)
trans-1,3-Dichloropropene	NE	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)
Ethyl Benzene	700	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
2-Hexanone	34	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
4-Methyl-2-pentanone	1000	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Methylene Chloride	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Styrene	100	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,1,2,2-Tetrachloroethane	0.066	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)
Tetrachloroethene	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Toluene	1000	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,1,1-Trichloroethane	200	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,1,2-Trichloroethane	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Trichloroethene	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	3.2 J (5.0)	U (5.0)	6.4 (5.0)	U (5.0)	U (5.0)	6.8 (5.0)
Vinyl Chloride	2.0	U (2.0)	U (2.0)	U (2.0)	U (2.0)	U (2.0)	U (2.0)	U (2.0)	U (2.0)	U (2.0)	U (2.0)
Xylenes (total)	10000	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)

Notes:

1 All concentrations are presented in ug/L.

2 Results that exceed the ALs for Fort Smith ADEQ RADD issued Dec 2013 are double underlined.

Abbreviations:

U -- Not Detected
J -- Estimated Concentration
( ) -- Reporting Limit
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environmental Quality
ug/L = micrograms per Liter
NE -- Not Established

ENVIRON

TABLE 1
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
Whirlpool Corporation; Fort Smith, AR

Location	Remedial Action Levels per ADEQ RADD Issued 2014	DP-46	DP-47	DP-48	DP-49	DP-50	DP-51	DP-52	DP-53
ENVIRON Sample ID		DP-46-082014	DP-47-082014	DP-48-082014	DP-49-GW-20140817	DP-50-082014	DP-51-GW-082014	DP-52-GW-082014	DP-53-GW-082014
Lab Sample ID		60175765001	60175765002	60145935001	60176049001	60145935002	60176267001	60176125001	60176267002
Sample Method									
Sample Date		8/13/2014	8/13/2014	8/15/2014	8/17/2014	8/15/2014	8/20/2014	8/19/2014	8/20/2014
Comments									
Volatile Organic Compounds									
Acetone	12000	U (10)	10.8 (10)	9.2 J (10)	U (10)	22.0 (10)	U (10)	16.5 (10)	U (10)
Benzene	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Bromodichloromethane	80	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	16.5 (5.0)	U (5.0)
Bromoform	80	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Bromomethane	7.0	U (7.0)	U (7.0)	U (7.0)	U (7.0)	U (7.0)	U (7.0)	U (7.0)	U (7.0)
2-Butanone	4900	U (10)	U (10)	U (10)	16.4 (10)	6.3 J (10)	U (10)	U (10)	U (10)
Carbon Disulfide	720	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Carbon Tetrachloride	5	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Chlorobenzene	100	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)
Chloroethane	12000	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Chloroform	80	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Chloromethane	190	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Dibromochloromethane	80	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,1-Dichloroethane	2.4	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)
1,2-Dichloroethane	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,1-Dichloroethene	7.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
cis-1,2-Dichloroethene	70	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
trans-1,2-Dichloroethene	100	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,2-Dichloropropane	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,3-Dichloropropene (total)	0.41	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)
cis-1,3-Dichloropropene	NE	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)
trans-1,3-Dichloropropene	NE	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)
Ethyl Benzene	700	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
2-Hexanone	34	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
4-Methyl-2-pentanone	1000	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Methylene Chloride	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Styrene	100	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,1,2,2-Tetrachloroethane	0.066	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)	U (1.0)
Tetrachloroethene	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Toluene	1000	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,1,1-Trichloroethane	200	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
1,1,2-Trichloroethane	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Trichloroethene	5.0	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)
Vinyl Chloride	2.0	U (2.0)	U (2.0)	U (2.0)	U (2.0)	U (2.0)	U (2.0)	U (2.0)	U (2.0)
Xylenes (total)	10000	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)	U (5.0)

Notes:

1 All concentrations are presented in ug/L.

2 Results that exceed the ALs for Fort Smith ADEQ RADD issued Dec 2013 are double underlined.

Abbreviations:

U -- Not Detected
J -- Estimated Concentration
( ) -- Reporting Limit
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environmental Quality
ug/L = micrograms per Liter
NE -- Not Established

ENVIRON

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - NORTHEAST CORNER
Whirlpool Corporation; Fort Smith, AR

Location		MW-87	MW-87	MW-88	MW-89	MW-90	MW-90	MW-91	DP-40	DP-40
ENVIRON Sample ID	Remedial Action Levels per ADEQ RADD Issued 2014	MW-87 (15.0 FT) - 062014	MW-87 (4.5 FT) - 062014	MW-88 (12.0 FT) - 062014	MW-89 (17.5 FT) - 062014	MW-90 (14.5 FT) - 062014	MW-90 (20.5 FT) - 062014	MW-91 (12.5 FT) - 062014	DP-40 (4.0 FT) - 082014	DP-40 (11.0 FT) - 082014
Lab Sample ID		60172280002	60172280001	60172176003	60172176004	60172176001	60172176002	60172280003	60175335001	60175335002
Collection Depth (ft bgs)		15	4.5	12	17.5	14.5	20.5	12.5	4.0	11.0
Sample Method										
Sample Date		06/24/2014	06/24/2014	06/23/2014	06/23/2014	06/23/2014	06/23/2014	06/24/2014	8/7/2014	8/7/2014
Comments										
Volatile Organic Compounds										
Acetone	NE	U (0.0169)	0.0259 (0.0177)	U (0.0176)	U (0.0176)	U (0.0203)	U (0.0201)	0.0188 (0.0186)	U (0.0195)	U (0.0177)
Benzene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Bromodichloromethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Bromoform	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Bromomethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
2-Butanone	NE	U (0.0084)	U (0.0088)	U (0.0088)	U (0.0088)	U (0.0102)	U (0.01)	U (0.0093)	U (0.0097)	U (0.0089)
Carbon Disulfide	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Carbon Tetrachloride	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Chlorobenzene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Chloroethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Chloroform	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Chloromethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Dibromochloromethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
1,1-Dichloroethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
1,2-Dichloroethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
1,1-Dichloroethene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
cis-1,2-Dichloroethene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
trans-1,2-Dichloroethene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
1,2-Dichloropropane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
1,3-Dichloropropene (total)	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
cis-1,3-Dichloropropene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
trans-1,3-Dichloropropene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Ethyl Benzene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
2-Hexanone	NE	U (0.0169)	U (0.0177)	U (0.0176)	U (0.0176)	U (0.0203)	U (0.0201)	U (0.0186)	U (0.0195)	U (0.0177)
4-Methyl-2-pentanone	NE	U (0.0084)	U (0.0088)	U (0.0088)	U (0.0088)	U (0.0102)	U (0.01)	U (0.0093)	U (0.0097)	U (0.0089)
Methylene Chloride	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Styrene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
1,1,2,2-Tetrachloroethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Tetrachloroethene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Toluene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
1,1,1-Trichloroethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
1,1,2-Trichloroethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Trichloroethene	0.129	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Vinyl Chloride	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Xylenes (total)	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)

Notes:

1 All concentrations are presented in mg/kg.

2 None of the detected concentration exceed the ALs for Fort Smith ADEQ RADD issued December 2013.

Abbreviations:

U -- Not Detected.
J -- Estimated Concentration.
( ) -- Reporting Limit.
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environmental Quality
mg/kg = miligram per kilogram
NE = Not Established

ENVIRON

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - NORTHEAST CORNER
Whirlpool Corporation; Fort Smith, AR

Location	DP-40	DP-41	DP-41	DP-41	DP-42	DP-42	DP-42	DP-43	DP-43	DP-43
ENVIRON Sample ID	DP-40 (14.5 FT) - 082014	DP-41 (4.0 FT) - 082014	DP-41 (10.0 FT) - 082014	DP-41 (14.0 FT) - 082014	DP-42 (4.0 FT) - 082014	DP-42 (8.0 FT) - 082014	DP-42 (12.0 FT) - 082014	DP-43-SL (4.0 FT) - 20140811	DP-43-SL (10.0 FT) - 20140811	DP-43-SL (19.0 FT) - 20140811
Lab Sample ID	60175335003	60175425001	60175425002	60175425003	60175425004	60175425005	60175425006	60175525001	60175525002	60175525003
Collection Depth (ft bgs)	14.5	4.0	10.0	14.0	4.0	8.0	12.0	4.0	10.0	19.0
Sample Method										
Sample Date	8/7/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/11/2014	8/11/2014	8/11/2014
Comments		MW-98	MW-98	MW-98						
Volatile Organic Compounc										
Acetone	U (0.0194)	U (0.0240)	U (0.0182)	U (0.0181)	U (0.0196)	U (0.0185)	U (0.0171)	U (0.0243)	U (0.0173)	U (0.0167)
Benzene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Bromodichloromethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Bromoform	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Bromomethane	U (0.0048)	0.0031 J (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
2-Butanone	U (0.0097)	U (0.0120)	U (0.0091)	U (0.0091)	U (0.0098)	U (0.0092)	U (0.0086)	U (0.0121)	U (0.0089)	U (0.0084)
Carbon Disulfide	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Carbon Tetrachloride	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Chlorobenzene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Chloroethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Chloroform	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Chloromethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Dibromochloromethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
1,1-Dichloroethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
1,2-Dichloroethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
1,1-Dichloroethene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
cis-1,2-Dichloroethene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
trans-1,2-Dichloroethene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
1,2-Dichloropropane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
1,3-Dichloropropene (total)	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
cis-1,3-Dichloropropene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
trans-1,3-Dichloropropene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Ethyl Benzene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
2-Hexanone	U (0.0194)	U (0.0240)	U (0.0182)	U (0.0181)	U (0.0196)	U (0.0185)	U (0.0171)	U (0.0243)	U (0.0173)	U (0.0167)
4-Methyl-2-pentanone	U (0.0097)	U (0.0120)	U (0.0091)	U (0.0091)	U (0.0196)	U (0.0092)	U (0.0086)	U (0.0121)	U (0.0089)	U (0.0084)
Methylene Chloride	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0098)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Styrene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
1,1,2,2-Tetrachloroethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Tetrachloroethene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Toluene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
1,1,1-Trichloroethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
1,1,2-Trichloroethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Trichloroethene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Vinyl Chloride	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Xylenes (total)	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)

Notes:

1 All concentrations are presented in mg/kg.

2 None of the detected concentration exceed the ALs for Fort Smith ADEQ RADD issued December 2013.

Abbreviations:

U -- Not Detected.
J -- Estimated Concentration.
( ) -- Reporting Limit.
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environmental Quality
mg/kg = miligram per kilogram
NE = Not Established

ENVIRON

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - NORTHEAST CORNER
Whirlpool Corporation; Fort Smith, AR

Location	DP-44	DP-44	DP-44	DP-44	DP-45	DP-45	DP-45	DP-46	DP-46	DP-46
ENVIRON Sample ID	DP-44-SL (4.0 FT) - 20140811	DP-44-SL (11.0 FT) - 20140811	DP-44-SL (18.0 FT) - 20140811	DP-44-SL (21.5 FT) - 20140811	DP-45-SL (4.0 FT) - 20140811	DP-45-SL (12.0 FT) - 20140811	DP-45-SL (18.0 FT) - 20140811	DP-46-SL (4.5 FT) - 20140811	DP-46-SL (13.5 FT) - 20140811	DP-46-SL (18.0 FT) - 20140811
Lab Sample ID	60175525004	60175525005	60175525006	60175525007	60175525008	60175525009	60175525008	60175646001	60175646002	60175646003
Collection Depth (ft bgs)	4.0	11.0	18.0	21.5	4.0	12.0	18.0	4.5	13.5	18.0
Sample Method										
Sample Date	8/11/2014	8/11/2014	8/11/2014	8/11/2014	8/11/2014	8/11/2014	8/11/2014	8/12/2014	8/12/2014	8/12/2014
Comments	MW-99	MW-99	MW-99	MW-99						
Volatile Organic Compounc										
Acetone	U (0.0233)	U (0.0184)	U (0.0196)	U (0.0204)	0.0371 (0.0177)	U (0.0197)	U (0.0180)	U (0.0210)	U (0.0166)	U (0.0167)
Benzene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Bromodichloromethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Bromoform	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Bromomethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
2-Butanone	U (0.0117)	U (0.0092)	U (0.0098)	U (0.0102)	U (0.0089)	U (0.0098)	U (0.0090)	U (0.0105)	U (0.0083)	U (0.0083)
Carbon Disulfide	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Carbon Tetrachloride	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Chlorobenzene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Chloroethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Chloroform	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Chloromethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Dibromochloromethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
1,1-Dichloroethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
1,2-Dichloroethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
1,1-Dichloroethene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
cis-1,2-Dichloroethene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
trans-1,2-Dichloroethene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
1,2-Dichloropropane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
1,3-Dichloropropene (total)	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
cis-1,3-Dichloropropene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
trans-1,3-Dichloropropene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Ethyl Benzene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
2-Hexanone	U (0.0233)	U (0.0184)	U (0.0196)	U (0.0204)	U (0.0177)	U (0.0197)	U (0.0180)	U (0.0210)	U (0.0166)	U (0.0167)
4-Methyl-2-pentanone	U (0.0117)	U (0.0092)	U (0.0098)	U (0.0102)	U (0.0089)	U (0.0098)	U (0.0090)	U (0.0105)	U (0.0083)	U (0.0083)
Methylene Chloride	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Styrene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
1,1,2,2-Tetrachloroethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Tetrachloroethene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Toluene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
1,1,1-Trichloroethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
1,1,2-Trichloroethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Trichloroethene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Vinyl Chloride	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Xylenes (total)	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)

Notes:

1 All concentrations are presented in mg/kg.

2 None of the detected concentration exceed the ALs for Fort Smith ADEQ RADD issued December 2013.

Abbreviations:

U -- Not Detected.
J -- Estimated Concentration.
( ) -- Reporting Limit.
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environmental Quality
mg/kg = miligram per kilogram
NE = Not Established

ENVIRON

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - NORTHEAST CORNER
Whirlpool Corporation; Fort Smith, AR

Location	DP-47	DP-47	DP-48	DP-48	DP-49	DP-49	DP-49	DP-50	DP-50	DP-51
ENVIRON Sample ID	DP-47-SL (5.0 FT) - 20140811	DP-47-SL (22.0 FT) - 20140811	DP-48-SL (4.0 FT) - 20140814	DP-48-SL (11.5 FT) - 20140814	DP-49-SL (4.0 FT) - 20140814	DP-49-SL (10.0 FT) - 20140814	DP-49-SL (13.0 FT) - 20140814	DP-50 - SL (4.0 FT) - 20140814	DP-50 - SL (10.0 FT) - 20140814	DP-51-SL-(1.0) FT - 20140818
Lab Sample ID	60175646004	60175646005	60175927001	60175927002	60175927003	60175927004	60175927005	60175927006	60175927007	60176014001
Collection Depth (ft bgs)	5.0	22.0	4.0	11.5	4.0	10.0	13.0	4.0	10.0	1.0
Sample Method										
Sample Date	8/12/2014	8/12/2014	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/19/2014
Comments					MW-96	MW-96	MW-96			
Volatile Organic Compounc										
Acetone	U (0.0202)	U (0.0173)	0.0153 J (0.0185)	0.0093 J (0.0172)	0.0154 J (0.0194)	0.0123 J (0.0174)	0.0142 J (0.0226)	U (0.0184)	U (0.0159)	0.0414 (0.0197)
Benzene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Bromodichloromethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Bromoform	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Bromomethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
2-Butanone	U (0.0101)	U (0.0087)	U (0.0092)	U (0.0086)	U (0.0097)	U (0.0087)	U (0.0113)	U (0.0092)	U (0.0079)	U (0.0098)
Carbon Disulfide	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Carbon Tetrachloride	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Chlorobenzene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Chloroethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Chloroform	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Chloromethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Dibromochloromethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
1,1-Dichloroethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
1,2-Dichloroethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
1,1-Dichloroethene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
cis-1,2-Dichloroethene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
trans-1,2-Dichloroethene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
1,2-Dichloropropane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
1,3-Dichloropropene (total)	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
cis-1,3-Dichloropropene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
trans-1,3-Dichloropropene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Ethyl Benzene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
2-Hexanone	U (0.0202)	U (0.0173)	U (0.0185)	U (0.0172)	U (0.0194)	U (0.0174)	U (0.0226)	U (0.0184)	U (0.0159)	U (0.0197)
4-Methyl-2-pentanone	U (0.0101)	U (0.0087)	U (0.0092)	U (0.0086)	U (0.0097)	U (0.0087)	U (0.0113)	U (0.0092)	U (0.0079)	U (0.0098)
Methylene Chloride	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Styrene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
1,1,2,2-Tetrachloroethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Tetrachloroethene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Toluene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
1,1,1-Trichloroethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
1,1,2-Trichloroethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Trichloroethene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Vinyl Chloride	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Xylenes (total)	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)

Notes:

1 All concentrations are presented in mg/kg.

2 None of the detected concentration exceed the ALs for Fort Smith ADEQ RADD issued December 2013.

Abbreviations:

U -- Not Detected.
J -- Estimated Concentration.
( ) -- Reporting Limit.
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environmental Quality
mg/kg = miligram per kilogram
NE = Not Established

ENVIRON

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - NORTHEAST CORNER
Whirlpool Corporation; Fort Smith, AR

Location	DP-51	DP-52	DP-52	DP-53	DP-53
ENVIRON Sample ID	DP-51-SL-(14.0 FT) - 20140818	DP-52-SL-(4.0 FT) - 20140818	DP-52-SL-(11.0 FT) - 20140818	DP-53-SL-(1.0 FT) - 20140818	DP-53-SL-(8.5 FT) - 20140818
Lab Sample ID	60176014002	60176014003	60176014004	60176014004	60176014005
Collection Depth (ft bgs)	14.0	4.0	11.0	1.0	8.5
Sample Method					
Sample Date	8/19/2014	8/19/2014	8/19/2014	8/19/2014	8/19/2014
Comments		MW-97	MW-97		
Volatile Organic Compounc					
Acetone	U (0.0159)	0.0202 (0.0185)	0.0094 J (0.0164)	0.0587 (0.0179)	0.0101 (0.0177)
Benzene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Bromodichloromethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Bromoform	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Bromomethane	0.0081 (0.0040)	0.0093 (0.0046)	U (0.0041)	0.0093 (0.0045)	U (0.0044)
2-Butanone	U (0.0079)	U (0.0093)	U (0.0093)	0.0063 J (0.0082)	U (0.0089)
Carbon Disulfide	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Carbon Tetrachloride	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Chlorobenzene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Chloroethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Chloroform	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Chloromethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Dibromochloromethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
1,1-Dichloroethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
1,2-Dichloroethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
1,1-Dichloroethene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
cis-1,2-Dichloroethene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
trans-1,2-Dichloroethene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
1,2-Dichloropropane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
1,3-Dichloropropene (total)	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
cis-1,3-Dichloropropene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
trans-1,3-Dichloropropene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Ethyl Benzene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
2-Hexanone	U (0.0159)	U (0.0185)	U (0.0164)	U (0.0179)	U (0.0177)
4-Methyl-2-pentanone	U (0.0079)	U (0.0093)	U (0.0093)	U (0.0082)	U (0.0089)
Methylene Chloride	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Styrene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
1,1,2,2-Tetrachloroethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Tetrachloroethene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Toluene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
1,1,1-Trichloroethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
1,1,2-Trichloroethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Trichloroethene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Vinyl Chloride	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Xylenes (total)	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)

Notes:

1 All concentrations are presented in mg/kg.

2 None of the detected concentration exceed the ALs for Fort Smith ADEQ RADD issued December 2013.

Abbreviations:
U -- Not Detected.
J -- Estimated Concentration.
( ) -- Reporting Limit.
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environmental Quality
mg/kg = miligram per kilogram
NE = Not Established

ENVIRON

FIGURES

FILE: D:\GIS\PROJECT\WHIRLPOOL\DOCs\20140801_LLM\HPT\NE-BnGelub Report\Figure 1 - NE Corner GW DP Results - DRAFT 20141110.mxd

MCGRUDER, KENNETH ET AL
LOPEZ, DOMINGO A & MERCEDES C
LE, THAO & AN FAMILY LIVING TRUST
LOVETT, ROSEMARY E ET AL
ALLEN, DOROTHY G REVOCABLE TRUST
ALLEN, DOROTHY G REVOCABLE TRUST
DREAMS TO WINGS, LLC
ALLIED IND WORKERS LOCAL 370
THREET, RONNIE REVOC TRUST
MW-60
MW-61
TAYLOR, ALAN & NATASHA
KRALICEK & FLUSCHE LLC
JARRETT FAMILY TRUST
WESTPHAL INVESTMENT MANAGEMENT
FARMER, SHIRLEY A REVOCABLE TRUST
BOST HUMAN DEVELOPMENT SERVICES
TAYLOR, ALAN & NATASHA
TAYLOR, ALAN & NATASHA
NEWBOLD, WILLIAM R LIVING TRUST
MW-67
REITH PROPERTIES LLC
BREEDEN'S AUTO & BOAT SALES, I
TAYLOR, ALAN & NATASHA
TAYLOR, ALAN & NATASHA
KRALICEK & FLUSCHE LLC
KRALICEK & FLUSCHE LLC
PRZYBYSZ, JOHN
MAHAM, LLC
MAHAM, LLC
MW-66
CITY OF FORT SMITH
PRZYBYSZ, JOHN L
KRALICEK & FLUSCHE LLC
Boys Club Ln
MW-57
WINTERS, JUNIOR P & JANE E ROAM WIN
MORGAN, WANDA M
KRALICEK & FLUSCHE LLC
SCROGGINS, CAROL S ET AL
MAHAM, LLC
MATHEWS, WILLIAM D & MYRNA M MATHEW
MATHEWS, WILLIAM D & MYRNA M MATHEW
MW-56
PRZYBYSZ, JOHN L
POTTS FAMILY ENTERPRISES, LLC
CORLEY, HAROLD & VERNA
REITH PROPERTIES LLC
DP-53 U (0.50 µg/L)
M-333
DP-52 U (0.50 µg/L)
Jacobs Ave
DP-50 U (0.50 µg/L)
M-332
SEBASTIAN COUNTY, ARKANSAS
MW-62
MW-63
M-328
DP-49 U (0.50 µg/L)
M-327
WINTERS, B L
LINSON, LARRY
KEITH, DEBRA E
LONG, OSCAR T JR, DELMAR LONG
LONG, OSCAR T JR, DELMAR LONG
WILSON, GLENDA VAUGHT
LOVE, DAVID & BECKY
Jenny Lind Rd
RIEDER, SHIRLEY A
GAMBLE, MARK MIGUEL
CITY OF FORT SMITH
CITY OF FORT SMITH
CITY OF FORT SMITH
DP-51 U (0.50 µg/L)
M-331
DP-42 (6.4 µg/L)
M-314
DP-48 U (0.50 µg/L)
M-326A
CITY OF FORT SMITH
DP-40 (3.2 µg/L)
M-312
DP-41 U (0.50 µg/L)
M-313
FORT SMITH BOYS & GIRLS CLUBS
ND
5 µg/L
5 µg/L
ND
Ingersoll Ave
M-319
MW-90 U (0.50 µg/L)
MW-88 U (0.50 µg/L)
DP-45 (6.8 µg/L)
M-317
DP-46 U (0.50 µg/L)
M-318
Ingersoll Ave (Proposed)
MW-89 (19.5 µg/L)
ND
ND
FORT SMITH BOYS & GIRLS CLUBS
5 µg/L
MW-22
W-1
MW-87 (564 µg/L)
DP-44 U (0.50 µg/L)
M-315
DP-22 / M-251
170 µg/L
MW-91 (234 µg/L)
DP-43 U (0.50 µg/L)
M-316
M-300
DP-47 U (0.50 µg/L)
M-301
P-55
WHIRLPOOL CORPORATION
M-302
ANDERSON, WOODROW JR
Jenny Lind Rd

0 200 400
Feet
1 inch = 200 feet

Notes
- U - Trichloroethene (TCE) Non-Detect at the indicated Method Detection Limit (e.g., MW-90 U (0.50 µg/L)).
- MW-87 to MW-91 sampled June 25 and 26, 2014.
- DP locations sampled August 2014 except for DP-22 (1/11/2014).
- ND Contour (Non Detect < 0.5 µg/L). Dashed were inferred.
- Jenny Lind Road widening areas based on City of Fort Smith maps presented to the City Directors October 2012 and January-February 2013.
- Areas depicted are approximate and for planning purposes only
- Parcel boundaries and database updated May 2014
- 2006 aerial photograph (Source: USGS)

Boring Location (Completed August 2014)
- DP - Direct Push (Soil/GW)
- MIP - Membrane Interface Probe

Boring Location (Completed September 2013 through January 2014)
- MIP - Membrane Interface Probe
- DP - Direct Push (Soil/GW)
- Existing Monitoring Well Location

Trichloroethene (TCE) Isocontour
- TCE in Groundwater
- TCE in Groundwater (dashed where inferred)

Jenny Lind Road Widening 2014-2015
- New Road
- Temp. Construction Easement
- Right-of-Way
- Drainage Easement

ENVIRON

DRAFTED BY: KTS | DATE: 12/01/2014

NORTHEAST CORNER GROUNDWATER DIRECT PUSH RESULTS

Whirlpool Facility - Fort Smith, Arkansas

Figure 1

PROJECT: 3434446A

FILE: D:\GIS\PROJECTW\HIRLPOOL\DOCs\20140801_LLM\HPTNE-BnGclub Report\Figure 2 - NE Potentiometric Surface DRAFT 20141201.mxd

MW-60 455.95'
MW-61 452.35'
MW-67 454.06'
MW-66 459.33'
MW-57 461.07'
MW-56 461.67'
MW-63 459.81'
MW-62 459.91'
MW-97 447.74'
MW-96 449.48'
MW-98 451.72'
MW-90 462.56'
MW-89 458.8'
MW-88 461.90'
MW-22 463.27'
MW-91 459.57'
MW-87 460.34'
MW-99 459.04'

Jacobs Ave
Jenny Lind Rd
Boys Club Ln
Ingersoll Ave
Ingersoll Ave (Proposed)

456' 457' 458' 459' 460' 461' 462' 463' 464'
448' 449' 450' 451' 452' 453' 454' 455' 456' 457' 458' 459' 460'

0 200 400
Feet
1 inch = 200 feet

Notes:
- Water levels measured 11/24/2014 and 11/25/2014
- Jenny Lind Road widening areas based on City of Fort Smith maps presented to the City Directors October 2012 and January-February 2013.

Monitoring Well
Groundwater Contour
Groundwater Contour (dashed where inferred)

Jenny Lind Road Widening 2014-2015
New Road
Temp. Construction Easement
Right-of-Way
Drainage Easement

ENVIRON

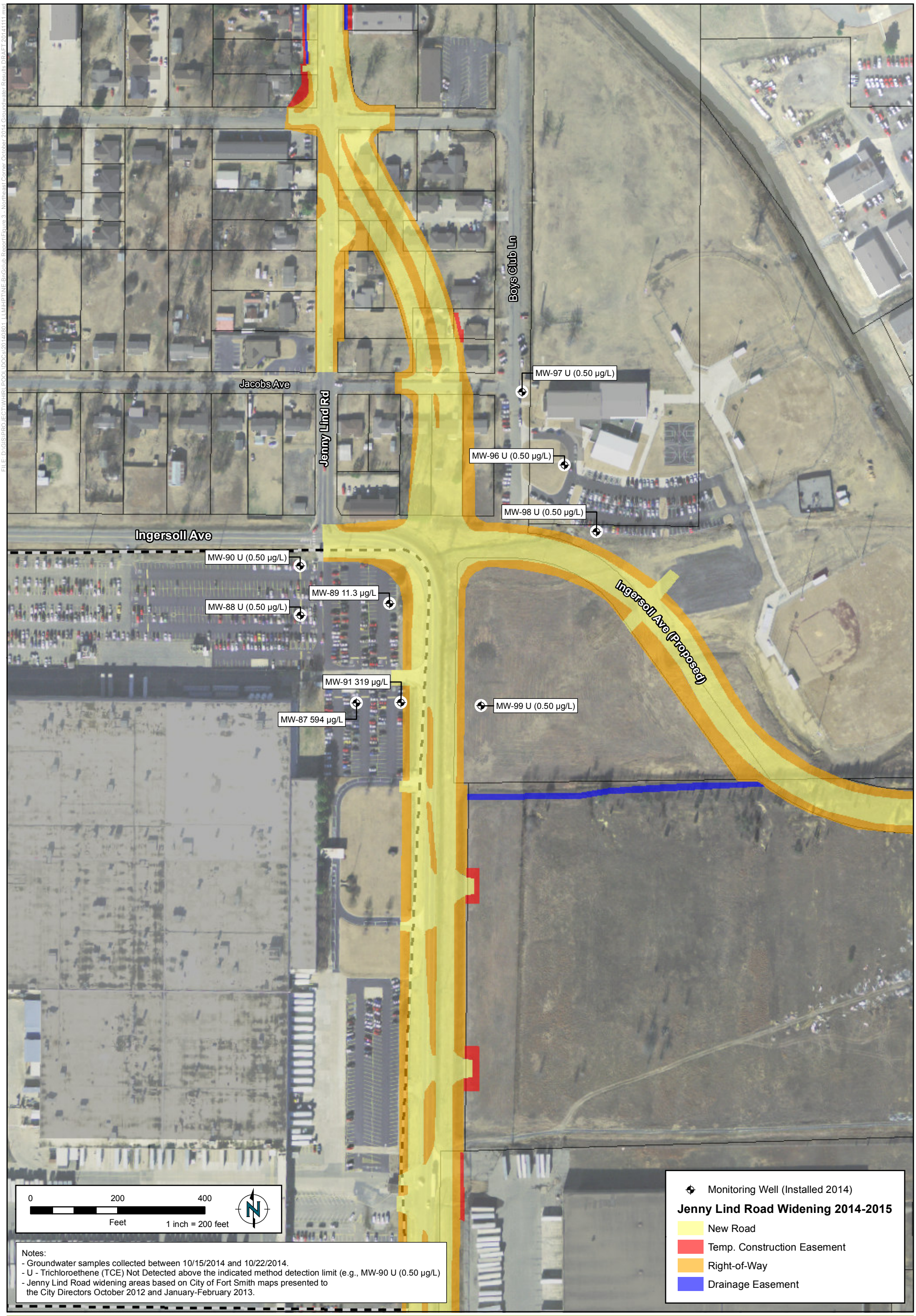
Attorney Client Privileged

NORTHEAST CORNER POTENTIOMETRIC SURFACE

Whirlpool Facility - Fort Smith, Arkansas

Figure 2

DRAFTED BY: KTS | DATE: 12/02/2014 | PROJECT: 3434446A



Notes:
- Groundwater samples collected between 10/15/2014 and 10/22/2014.
- U - Trichloroethene (TCE) Not Detected above the indicated method detection limit (e.g., MW-90 U (0.50 µg/L)
- Jenny Lind Road widening areas based on City of Fort Smith maps presented to the City Directors October 2012 and January-February 2013.

ENVIRON

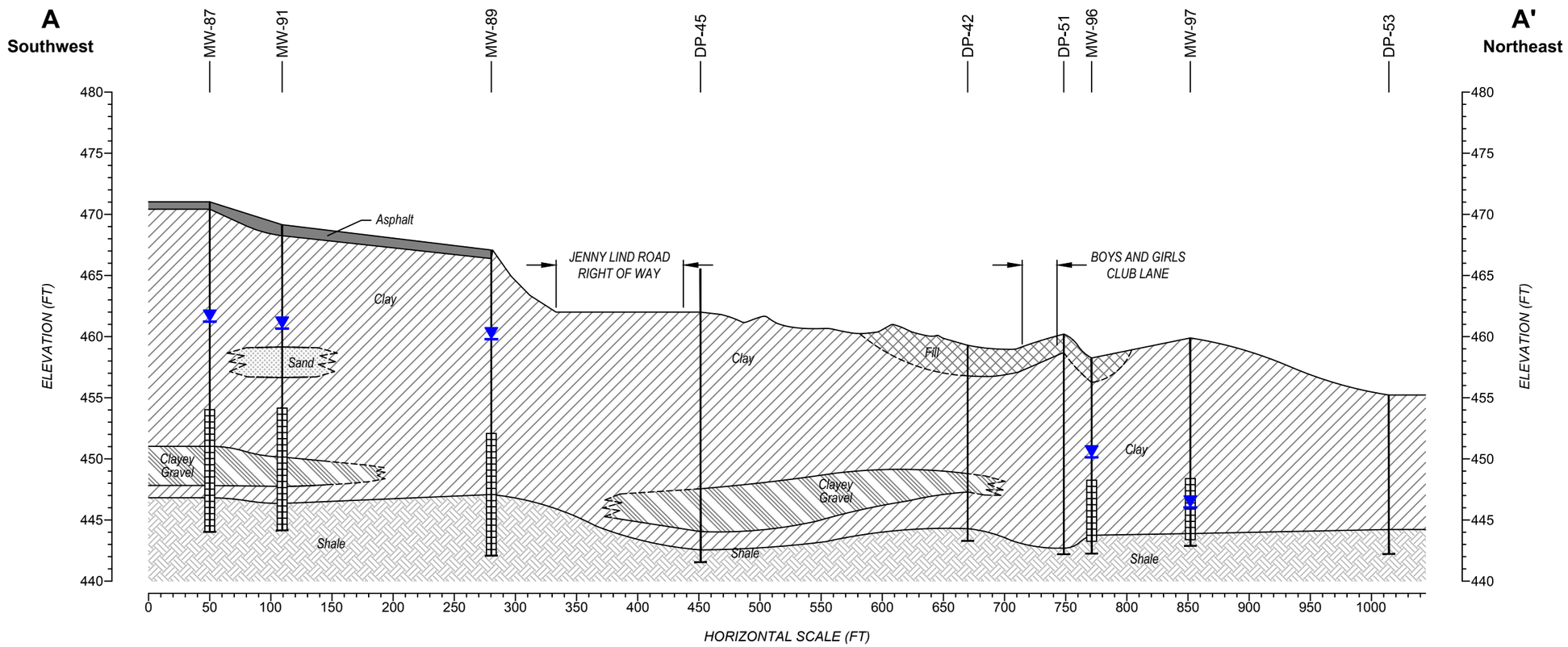
DRAFTED BY: KTS | DATE: 12/01/2014

NORTHEAST CORNER
OCTOBER 2014 GROUNDWATER RESULTS

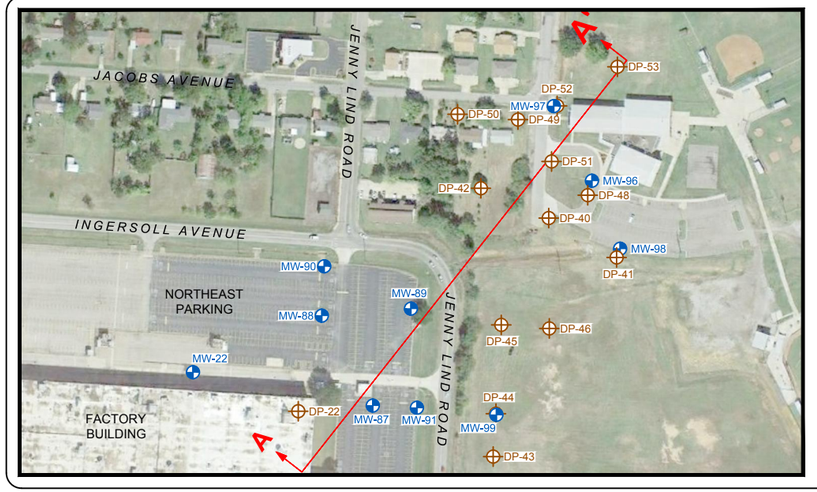
Whirlpool Facility - Fort Smith, Arkansas

Figure 3

PROJECT: 3434446A



CROSS-SECTION A-A'



CROSS-SECTION OVERVIEW

APPROX. SCALE (ft.)
0 350

LITHOLOGY		
SHALE	SAND	SILT
CLAY	GRAVEL	CLAYEY GRAVEL
FILL	ASPHALT	TOPSOIL

LEGEND	
	MONITORING WELLS
	DP BORINGS
	BORING
	POTENTIOMETRIC LEVEL

NOTE:
Vertical Exaggeration is 10x.

CROSS-SECTION A-A'
WHIRLPOOL FACILITY
FORT SMITH, ARKANSAS

ENVIRON

FIGURE 4

DRAFTED BY: CKL | DATE: 12/4/14 | 3433233A

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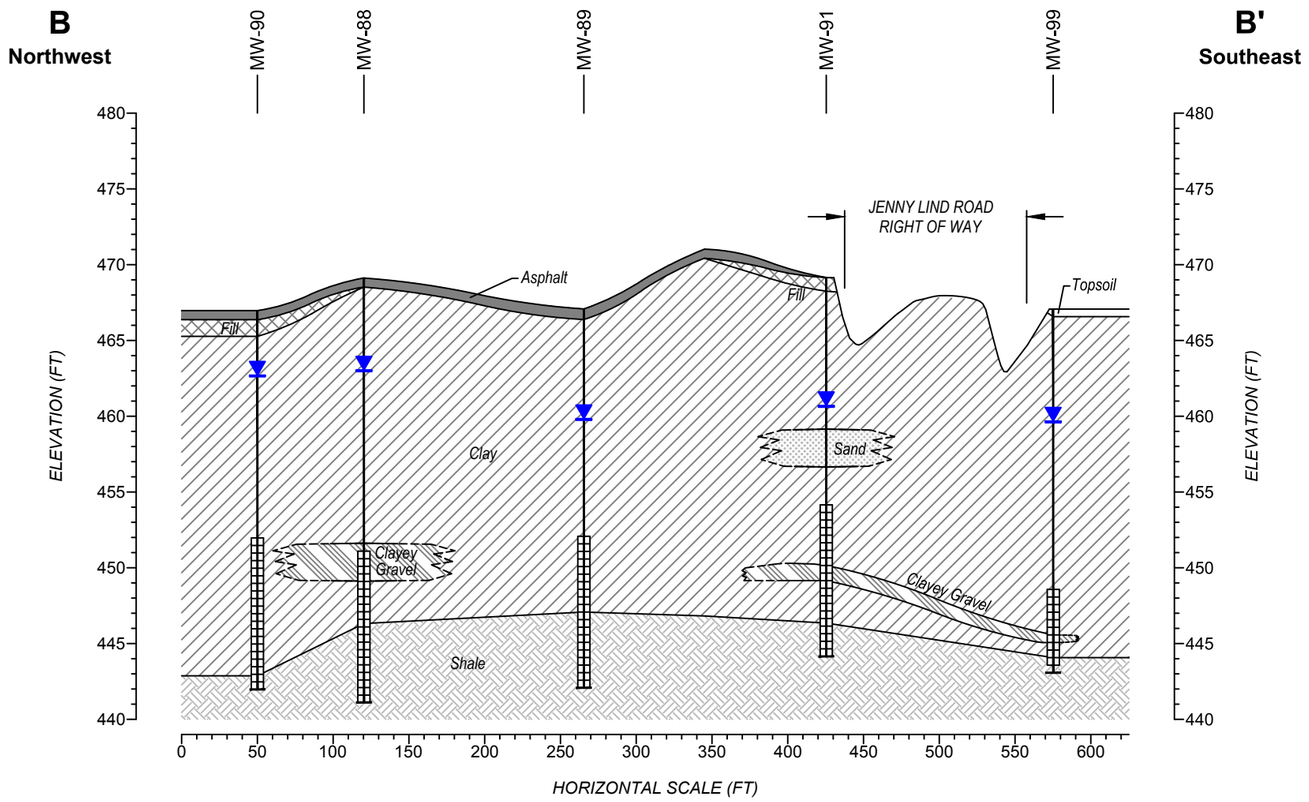
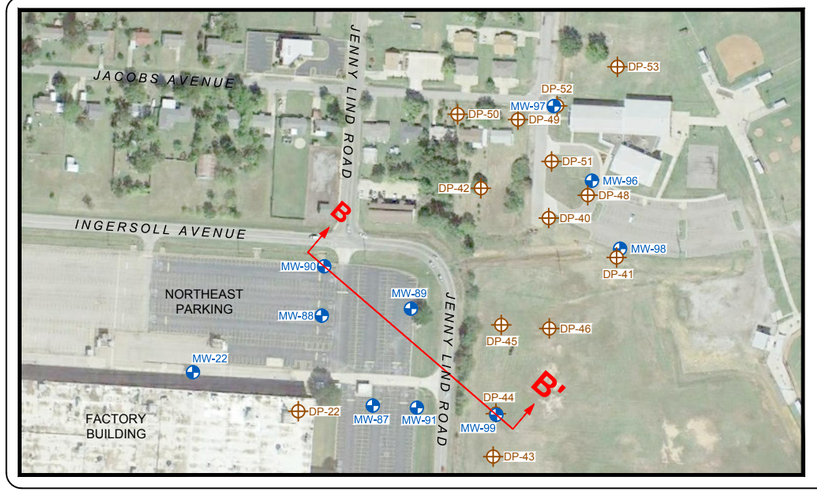


CROSS-SECTION B-B'



CROSS-SECTION OVERVIEW

APPROX. SCALE (ft.)
0 350

LITHOLOGY		
SHALE	SAND	SILT
CLAY	GRAVEL	CLAYEY GRAVEL
FILL	ASPHALT	TOPSOIL

LEGEND	
	MONITORING WELLS
	DP BORINGS
	BORING
	POTENTIOMETRIC LEVEL

NOTE:
Vertical Exaggeration is 10x.

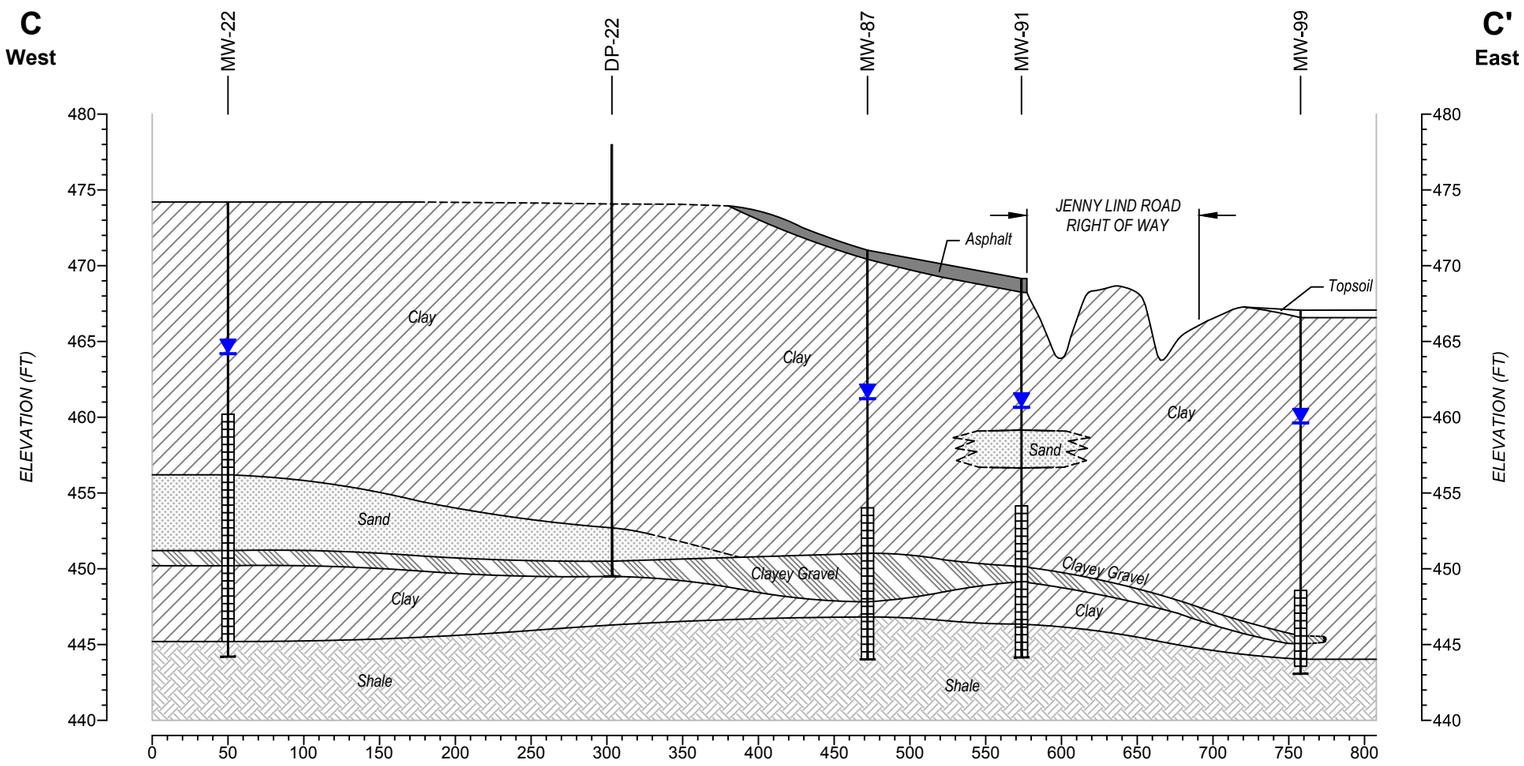
CROSS-SECTION B-B'
WHIRLPOOL FACILITY
FORT SMITH, ARKANSAS

ENVIRON

FIGURE 5

DRAFTED BY: CKL | DATE: 12/1/14 | 3433233A

L:\Loop Project Files\00_CAD FILES\34\NMRS_Whirlpool Ft. Smith LitSup 3433233A\04-06_NE Cross Section ABC.dwg



CROSS-SECTION C-C'

CROSS-SECTION OVERVIEW

APPROX. SCALE (ft.)
0 350

LITHOLOGY		
SHALE	SAND	SILT
CLAY	GRAVEL	CLAYEY GRAVEL
FILL	ASPHALT	TOPSOIL

LEGEND	
	MONITORING WELLS
	DP BORINGS
	BORING
	POTENTIOMETRIC LEVEL

NOTE:
Vertical Exaggeration is 10x.

CROSS-SECTION C-C'
WHIRLPOOL FACILITY
FORT SMITH, ARKANSAS

ENVIRON

FIGURE 6

DRAFTED BY: CKL | DATE: 12/2/14 | 3433233A

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APPENDIX A
Boring Logs (DP-22, DP-40 through DP-53, MW-87 through MW-91 and MW-96 through MW-99)

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: DP-22	Date(s): **1/10/2014**
Location: **Fort Smith, Arkansas**	
Logged By: **N. Zurweller**	
Consulting Firm: **ENVIRON**	Checked By: **K. Stonestreet**
Contractor: **Mohawk Drilling**	Purpose: **Soil Boring**
Drilling Method: **Direct Push**	Datum: **NAVD88** Elevation: **478 amsl**
Sampling Method: **Continuous Sampler**	North: **368822.35** East: **592096.76**
Remarks:	Borehole Dia.: **2.5 inches** Total Depth: **28.5 feet**
	Project Number: **3433253A**
	Project Name: **Whirlpool Corporation**

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	USCS Code	Material Description
				4.3	MH	SAND FILL, LIGHT BROWN, TRACE GRAVEL, FINE GRAIN, SLIGHTLY MOIST
		3				CLAYEY SILT, STRONG BROWN, SOME BLACK NODULES, STIFF, VERY SLIGHTLY MOIST
475				5.9		CLAYEY SILT, STRONG BROWN, SOME BLACK NODULES, STIFF, VERY SLIGHTLY MOIST
	5			5.8		
		4			CL	SILTY CLAY, STRONG BROWN, TRACE GRAY MOTTLING, TRACE SUBROUNDED GRAVEL UP TO 1/8", TRACE BLACK NODULES, SLIGHTLY STIFF, VERY SLIGHTLY MOIST.
				6.8		
470			DP-22 (8.5-9.0)		MH	CLAYEY SILT, STRONG BROWN AND PALE BROWN, TRACE LIGHT GRAY MOTTLING, SOME WHITE NODULES, TRACE BLACK NODULES, VERY SLIGHTLY PLASTIC, DRY
				6.1		
	10	4				
				6.2		
465				5.1		CLAYEY SILT, STRONG BROWN AND PALE BROWN, TRACE LIGHT GRAY MOTTLING, SOME WHITE NODULES, TRACE BLACK NODULES, VERY SLIGHTLY PLASTIC, DRY
		4				
	15			5.2		CLAYEY SILT, STRONG BROWN, WITH SUBROUNDED GRAVEL UP TO 1/4", WITH BLACK NODULES, VERY SLIGHTLY PLASTIC, STIFF, SLIGHTLY MOIST
				4.7	CL	CLAYEY SILT, STRONG BROWN, WITH SUBROUNDED GRAVEL UP TO 1/4", WITH BLACK NODULES, VERY SLIGHTLY PLASTIC, STIFF, SLIGHTLY MOIST
460		4				SILTY CLAY, STRONG BROWN, TRACE GRAY MOTTLING, STIFF, PLASTIC, SLIGHTLY MOIST
				6.6		
	20				CH	SILTY CLAY, STRONG BROWN, TRACE GRAY MOTTLING, STIFF, PLASTIC, SLIGHTLY MOIST
				4.3		
		4				
455				5.9		
						SILTY CLAY, STRONG BROWN, SOME FINE TO VERY FINE SAND, SLIGHTLY STIFF TO STIFF, SLIGHTLY MOIST
	25			6.6		SILTY CLAY, STRONG BROWN, WITH LIGHT GRAY MOTTLING, SOME FINE TO VERY FINE SAND, SLIGHTLY STIFF TO STIFF, SLIGHTLY MOIST
		4				SANDY CLAY, STRONG BROWN, WITH LIGHT GREENISH GRAY MOTTLING, VERY FINE TO FINE SAND, SLIGHTLY STIFF, SLIGHTLY MOIST
			DP-22 (27.5-28)	7.1		
450		0.5		6.2	SC	CLAYEY SAND WITH GRAVEL, STRONG BROWN, SUBROUNDED GRAVEL UP TO 1/4", FINE SAND, STIFF, SLIGHTLY MOIST TO MOIST
					GC	SAND AND GRAVEL, STRONG BROWN, SOME CLAY, SUBROUNDED GAVEL UP TO 1", FINE TO MEDIUM SAND, MOIST.

ENVIRON

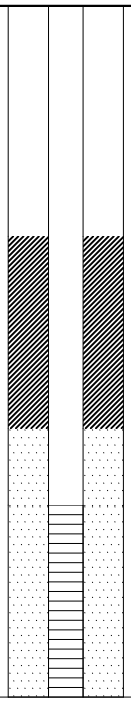
2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: DP-40	Date(s): **8/7/2014**
Location: **Fort Smith, Arkansas**	
Logged By: **N. Zurweller**	Checked By: **K. Stonestreet**
Contractor: **McCray Drilling**	Purpose: **Soil Boring**
Drilling Method: **Direct Push**	GS Elevation: **462 amsl** — Well Not Surveyed. Collected with Trimble GeoHX.
Sampling Method: **Continuous Sampler**	North: **369268 ft** — East: **592675 ft**
Well Construction: **TEMPORARY WELL**	Borehole Dia.: **2.25 inches** — Total Depth: **18.0 feet**
Blank Casing: Sch. 40 0.75" PVC 0 FT to 13 FT	Project Number: **3434446A**
Screen: Sch. 40 0.010 PVC 13 FT to 18 FT	Project Name: **Whirlpool Corporation**
Annular Fill: Bentonite 6 FT to 11 FT; Sand 11 FT to 18 FT	Remarks: Temporary well casing removed and borehole abandoned with hydrated granular bentonite.

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	USCS Code	Material Description
		2				NO RECOVERY
460		2		0	CL	SILTY FILL, LIGHT BROWN, LITTLE ROOT HAIRS, SLIGHTLY MOIST
		2	DP-40 (4)	0		SILTY CLAY, BROWN, SOME GRAY MOTTLING, LITTLE BLACK NODULES AND GRAVEL, SUBROUNDED, UP TO 1/4", SLIGHTLY PLASTIC, STIFF, SLIGHTLY MOIST
	5	2		0		SILTY CLAY, BROWN, SOME GRAY MOTTLING, LITTLE GRAVEL, SUBROUNDED TO SUBANGULAR, UP TO 1/2", PLASTIC, STIFF, SLIGHTLY MOIST
455		2		0	SC	CLAYEY SAND AND GRAVEL, BROWN, WITH SILT, SUBROUNDED AND SUBANGULAR, UP TO 1/2", FINE TO MEDIUM GRAIN, SLIGHTLY COHESIVE, MOIST, INCREASING SAND WITH DEPTH
		2		0	GC	SAND AND GRAVEL, BROWN, WITH SILTY CLAY, SUBROUNDED, UP TO 1/2", MEDIUM TO COARSE SAND, COHESIVE, MOIST
	10	2	DP-40 (11)	0		
450		2		0		
		2	DP-40 (14.5)	0		SAND AND GRAVEL AS ABOVE, INCREASING CLAY WITH DEPTH
	15	2		0		
445		2		0	MH	CLAYEY SILT, BROWN, LITTLE GRAVEL, SUBROUNDED, UP TO 1/4", CRUMBLY, DRY
						SHALE, VERY DARK GRAY, LAMINATED, CRUMBLY, SLIGHTLY STIFF, DRY
	20					
440						
	25					
435						

Water Level

Temporary Well Construction



Report: WELL_LOG_REV_TEMPORARY; File: WHIRLPOOL_LOGS.GPJ; 11/18/14

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: DP-41		Date(s): **8/8/2014**	
Location: **Fort Smith, Arkansas**			
Logged By: **N. Zurweller**		Checked By: **K. Stonestreet**	
Contractor: **McCray Drilling**		Purpose: **Soil Boring**	
Drilling Method: **Direct Push**		GS Elevation: **463 amsl**	Well Not Surveyed. Collected with Trimble GeoHX.
Sampling Method: **Continuous Sampler**		North: **369177 ft**	East: **592832 ft**
Well Construction: **TEMPORARY WELL**		Borehole Dia.: **2.25 inches**	Total Depth: **20.0 feet**
Blank Casing: Sch. 40 0.75" PVC	0 FT to 10 FT	Project Number: **3434446A**	
Screen: Sch. 40 0.010 PVC	10 FT to 20 FT	Project Name: **Whirlpool Corporation**	
Annular Fill: Bentonite	3 Ft to 7 FT	Remarks: Temporary well casing removed and borehole abandoned with hydrated granular bentonite.	
Sand	7 FT to 20 FT		

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Temporary Well Construction
460	0	2		0			CLAYEY SILT FILL, LIGHT BROWN, LITTLE ROOT HAIRS, LOOSE, DRY		
		2		0		CL	SILTY CLAY, BROWN, LITTLE LIGHT GRAY MOTTLING, TRACE BLACK NODULES, PLASTIC, STIFF, SLIGHTLY MOIST		
			DP-41 (4)						
455	5	2		0			SILTY CLAY, BROWN, LITTLE LIGHT GRAY MOTTLING, LITTLE BLACK NODULES, PLASTIC, STIFF, SLIGHTLY MOIST		
		2		0			SILTY CLAY, BROWN, SOME LIGHT GRAY MOTTLING, SOME BLACK NODULES, PLASTIC, STIFF, SLIGHTLY MOIST		
		2		0			SILTY CLAY, BROWN, LIGHT GRAY MOTTLING, SOME BLACK NODULES, LITTLE SAND, FINE GRAIN, INCREASING SILT WITH DEPTH, PLASTIC, STIFF, MOIST		
450	10	2	DP-41 (10)	0			SILTY CLAY, BROWN, LIGHT GRAY MOTTLING, SOME GRAVEL, SUBROUNDED, UP TO 1/4", SOME BLACK NODULES, LITTLE SAND, FINE GRAIN, INCREASING SILT WITH DEPTH, PLASTIC, STIFF, MOIST TO VERY MOIST		
		2		0			SILTY CLAY AND GRAVEL, SOME SAND, SUBROUNDED, UP TO 3/4", MEDIUM TO COARSE GRAIN, GRAY MOTTLING LAST 1.0', COHESIVE, STICKY, MOIST TO VERY MOIST		
445	15	2	DP-41 (14)	0			SILTY CLAY AND GRAVEL, LITTLE SAND, SUBROUNDED, UP TO 3/4", FINE GRAIN, COHESIVE, STICKY, MOIST TO VERY MOIST, INCREASING SILTY CLAY WITH DEPTH		
		2		0			SILTY CLAY, BROWN, PLASTIC, VERY STIFF, VERY MOIST		
		2		0			SILTY CLAY, BROWN, WITH BLUISH GRAY MOTTLING, WITH BLACK NODULES, SOME SAND, MEDIUM GRAIN, PLASTIC, STIFF, MOIST		
440	20						SILTY CLAY AND GRAVEL, BROWN, WITH SAND, SUBROUNDED, UP TO 3/4", MEDIUM TO COARSE GRAIN, COHESIVE, MOIST TO VERY MOIST		
							SILTY CLAY, BROWN, LITTLE LIGHT GRAY, SLIGHTLY LAMINATED, SLIGHTLY PLASTIC TO PLASTIC, STIFF TO VERY STIFF, SLIGHTLY MOIST		
435	25						SILTY CLAY, VERY DARK GRAY, SOME WEATHERED SHALE, PLASTIC, STIFF, SLIGHTLY MOIST		
							SHALE, VERY DARK GRAY, CRUMBLY, LAMINATED, DRY		

Report: WELL_LOG_REV_TEMPORARY; File: WHIRLPOOL_LOGS.GPJ; 11/18/14

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: DP-42		Date(s): **8/8/2014**	
Location: **Fort Smith, Arkansas**			
Logged By: **N. Zurweller**		Checked By: **K. Stonestreet**	
Contractor: **McCray Drilling**		Purpose: **Soil Boring**	
Drilling Method: **Direct Push**		GS Elevation: **459 amsl**	Well Not Surveyed. Collected with Trimble GeoHX.
Sampling Method: **Continuous Sampler**		North: **369337 ft**	East: **592519 ft**
Well Construction: **TEMPORARY WELL**		Borehole Dia.: **2.25 inches**	Total Depth: **16.0 feet**
Blank Casing: Sch. 40 0.75" PVC	0 FT to 11 FT	Project Number: **3434446A**	
Screen: Sch. 40 0.010 PVC	11 FT to 16 FT	Project Name: **Whirlpool Corporation**	
Annular Fill: Bentonite	1 FT to 8 FT	Remarks: Temporary well casing removed and borehole abandoned with hydrated granular bentonite.	
Sand	8 FT to 16 FT		

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Temporary Well Construction
		2		0			SILTY FILL, BROWN, SOME SAND, FINE GRAIN, LITTLE RED MOTTLING, WET		
		2		0		CL	SILTY CLAY, DARK BROWN, SOME RED-BROWN MOTTLING, LITTLE GRAVEL AND SAND, SUBROUNDED, UP TO 1/2", FINE TO MEDIUM GRAIN, PLASTIC, SLIGHTLY STIFF, WET		
455			DP-42 (4)				LAST 1' BLACK NODULES, SLIGHTLY MOIST		
	5	2		0			SILTY CLAY, BROWN, WITH LIGHT GRAY MOTTLING, PLASTIC, STIFF, SLIGHTLY MOIST		
		2		0			SILTY CLAY, GRAY, WITH LIGHT GRAY MOTTLING, SOME BROWN, PLASTIC, STIFF, SLIGHTLY MOIST, INCREASING SILT WITH DEPTH		
		2	DP-42 (8)	0					
450							SILTY CLAY AND GRAVEL, BROWN AND LIGHT GRAY, WITH SILT AND SAND, VERY FINE GRAIN, SUBROUNDED AND SUBANGULAR, UP TO 1/2", SLIGHTLY COHESIVE, LOOSE, DRY		
	10	2		0		GC	SAND AND GRAVEL, BROWN, WITH SILTY CLAY, FINE TO MEDIUM GRAIN, SUBROUNDED UP TO 1", COHESIVE, MOIST		
		2	DP-42 (12)	0		CL	SILTY CLAY, BROWN, LITTLE BLUISH-GRAY MOTTLING, SOME SAND AND GRAVEL, FINE GRAIN, SUBROUNDED, UP TO 1/2", STICKY, PLASTIC, STIFF, VERY MOIST		
445							SILTY CLAY, BROWN AND DARK GRAY-BROWN, SLIGHTLY LAMINATED, PLASTIC, VERY STIFF, SLIGHTLY MOIST		
	15	2		0			SHALE, VERY DARK GRAY, CRUMBLY, LAMINATED, SLIGHTLY STIFF, DRY		
440									
	20								
435									
	25								
430									

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: DP-43		Date(s): **8/11/2014**	
Location: **Fort Smith, Arkansas**			
Logged By: **M. Eddings**		Checked By: **K. Stonestreet**	
Contractor: **McCray Drilling**		Purpose: **Soil Boring**	
Drilling Method: **Direct Push**		GS Elevation: **468 amsl**	Well Not Surveyed. Collected with Trimble GeoHX.
Sampling Method: **Continuous Sampler**		North: **368718 ft**	East: **592547 ft**
Well Construction: **TEMPORARY WELL**		Borehole Dia.: **2.25 inches**	Total Depth: **24.0 feet**
Blank Casing: Sch. 40 0.75" PVC	0 FT to 19 FT	Project Number: **3434446A**	
Screen: Sch. 40 0.010 PVC	19 FT to 24 FT	Project Name: **Whirlpool Corporation**	
Annular Fill: Bentonite	0 FT to 17 FT	Remarks: Temporary well casing removed and borehole abandoned with hydrated granular bentonite.	
Sand	17 FT to 24 FT		

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Temporary Well Construction
		2		0		CL	TOPSOIL		
							CLAY, LIGHT BROWN, VERY SILTY, SLIGHTLY MOIST		
465		2		0			CLAY, BROWN, VERY SILTY, MOIST		
		2	DP-43 (4)	0			CLAY, RED-BROWN, SLIGHTLY SILTY, FIRM, SLIGHTLY MOIST		
	5	2		0			CLAY, RED-BROWN, SILTY, DRY		
		2		0					
460							CLAY, GRAY, VERY SILTY, SOFT, MOIST		
		2		0			CLAY, GRAY/BROWN, SILTY, FIRM, SLIGHTLY MOIST		
	10	2	DP-43 (10)	0			CLAY, RED-BROWN, SILTY, ABUNDANT GRAVEL, SUBROUNDED, FINE TO MEDIUM GRAIN, SLIGHTLY MOIST		
		2		0			CLAY, GRAY-BROWN, SILTY, FIRM, SLIGHTLY MOIST		
455		2		0					
	15	2		0					
		2		0					
450							CLAY, GRAY, VERY SILTY, SOFT, VERY MOIST		
		2	DP-43 (19)	0			CLAY, RED-BROWN, SILTY, ABUNDANT GRAVEL, SUBROUNDED, FINE TO MEDIUM GRAIN, FIRM, MOIST		
	20	2		0			CLAY, RED-BROWN, SILTY, MOIST, ABUNDANT GRAVEL, SUBROUNDED, FINE TO COARSE GRAIN, MOIST		
445		2		0			CLAY, RED-BROWN, SLIGHTLY SILTY, STIFF, SLIGHTLY MOIST		
							SHALE		
	25								
440									

Report: WELL_LOG_REV_TEMPORARY; File: WHIRLPOOL_LOGS.GPJ; 11/18/14

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: DP-44		Date(s): **8/11/2014**	
Location: **Fort Smith, Arkansas**			
Logged By: **M. Eddings**		Checked By: **K. Stonestreet**	
Contractor: **McCray Drilling**		Purpose: **Soil Boring**	
Drilling Method: **Direct Push**		GS Elevation: **467 amsl**	Well Not Surveyed. Collected with Trimble GeoHX.
Sampling Method: **Continuous Sampler**		North: **368817 ft**	East: **592553 ft**
Well Construction: **TEMPORARY WELL**		Borehole Dia.: **2.25 inches**	Total Depth: **24.0 feet**
Blank Casing: Sch. 40 0.75" PVC	0 FT to 19 FT	Project Number: **3434446A**	
Screen: Sch. 40 0.010 PVC	19 FT to 24 FT	Project Name: **Whirlpool Corporation**	
Annular Fill: Bentonite	0 FT to 17 FT	Remarks: Temporary well casing removed and borehole abandoned with hydrated granular bentonite.	
Sand	17 FT to 24 FT		

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Temporary Well Construction
		2		0		CL	TOP SOIL CLAY, LIGHT BROWN, VERY SILTY, DRY		
465		2		0			CLAY, BROWN, SILTY, FIRM, OCCASIONAL GRAVEL, FINE GRAIN, MOIST		
		2	DP-44 (4)	0					
	5	2		0					
460		2		0					
		2		0			CLAY, BROWN, SILTY, ABUNDANT GRAVEL, SUBROUNDED, FINE TO MEDIUM GRAIN, SLIGHTLY MOIST		
	10	2	DP-44 (11)	0			CLAY, BROWN, SILTY, OCCASIONAL GRAVEL, SUBROUNDED, FINE TO MEDIUM GRAIN, OCCASIONAL GRAVEL		
455		2		0			CLAY, GRAY/RED-BROWN, SILTY, FIRM, MOIST		
	15	2		0					
450		2		0			CLAY, RED-BROWN, SILTY, ABUNDANT GRAVEL, SUBROUNDED, FINE TO MEDIUM GRAIN, MOIST		
		2	DP-44 (18)	0					
	20	2		0					
445		2	DP-44 (21.5)	0		GC	GRAVEL, BROWN, CLAYEY, SUBROUNDED, FINE TO COARSE GRAIN, VERY MOIST		
		2		0		CL	CLAY, RED-BROWN, SLIGHTLY SILTY, VERY FIRM, MOIST		
	25						SHALE		
440									

Report: WELL_LOG_REV_TEMPORARY; File: WHIRLPOOL_LOGS.GPJ; 11/18/14

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: DP-45		Date(s): **8/11/2014**	
Location: **Fort Smith, Arkansas**			
Logged By: **M. Eddings**		Checked By: **K. Stonestreet**	
Contractor: **McCray Drilling**		Purpose: **Soil Boring**	
Drilling Method: **Direct Push**		GS Elevation: **466 amsl**	Well Not Surveyed. Collected with Trimble GeoHX.
Sampling Method: **Continuous Sampler**		North: **369022 ft**	East: **592566 ft**
Well Construction: **TEMPORARY WELL**		Borehole Dia.: **2.25 inches**	Total Depth: **24.0 feet**
Blank Casing: Sch. 40 0.75" PVC	0 FT to 19 FT	Project Number: **3434446A**	
Screen: Sch. 40 0.010 PVC	19 FT to 24 FT	Project Name: **Whirlpool Corporation**	
Annular Fill: Bentonite	0 FT to 17 FT	Remarks: Temporary well casing removed and borehole abandoned with hydrated granular bentonite.	
Sand	17 FT to 24 FT		

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Temporary Well Construction
465		2		0		CL	TOPSOIL		
		2		0			CLAY, LIGHT BROWN, SILTY, SLIGHT MOIST		
		2	DP-45 (4)	0			CLAY, BROWN, SLIGHTLY, SOFT, MOIST		
460	5	2		0			CLAY, BROWN, SILTY, OCCASIONAL GRAVEL, SUBROUNDED, FINE TO MEDIUM GRAIN, FIRM, SLIGHTLY MOIST		
		2		0			CLAY, RED-BROWN, SILTY, OCCASIONAL GRAVEL, SUBROUNDED, FINE GRAIN, FIRM, MOIST		
		4		0			CLAY, RED-BROWN, SILTY, SLIGHTLY MOIST		
455	10	2		0			CLAY, GRAY/RED-BROWN, VERY SILTY, FIRM, MOIST		
		2	DP-45 (12)	0			CLAY, RED-BROWN, SILT, ABUNDANT GRAVEL, SUBROUNDED, FINE TO MEDIUM GRAIN, SLIGHTLY MOIST		
450	15	2		0			CLAY, RED-BROWN, SILTY, ABUNDANT GRAIN, SUBROUNDED, FINE TO COARSE GRAIN, MOIST		
		2		0					
		2	DP-45 (18)	0		GC	GRAVEL, BROWN, CLAYEY, SILTY, FINE TO COARSE GRAIN, SUBROUNDED		
445	20	2		0					
		2		0		CL	CLAY, BROWN, SILTY, STIFF, MOIST		
		2		0			SHALE		
440	25								

Report: WELL_LOG_REV_TEMPORARY; File: WHIRLPOOL_LOGS.GPJ; 11/18/14

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: DP-46		Date(s): **8/12/2014**	
Location: **Fort Smith, Arkansas**			
Logged By: **N. Zurweller**		Checked By: **K. Stonestreet**	
Contractor: **McCray Drilling**		Purpose: **Soil Boring**	
Drilling Method: **Direct Push**		GS Elevation: **466 amsl**	Well Not Surveyed. Collected with Trimble GeoHX.
Sampling Method: **Continuous Sampler**		North: **369014 ft**	East: **592677 ft**
Well Construction: **TEMPORARY WELL**		Borehole Dia.: **2.25 inches**	Total Depth: **24.0 feet**
Blank Casing: Sch. 40 0.75" PVC	0 FT to 18 FT	Project Number: **3434446A**	
Screen: Sch. 40 0.010 PVC	19 FT to 24 FT	Project Name: **Whirlpool Corporation**	
Annular Fill: Bentonite	2 FT to 8 FT	Remarks: Temporary well casing removed and borehole abandoned with hydrated granular bentonite.	
Sand	8 FT to 24 FT		

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Temporary Well Construction
465		2					SILTY FILL, LIGHT BROWN, LITTLE ROOT HAIRS, SLIGHTLY MOIST		
		1.5		0		CL	SILTY CLAY, BROWN, WITH BLACK NODULES, LITTLE GRAVEL, SUBROUNDED, UP TO 1/4", TRACE SAND, FINE GRAIN, CRUMBLY, SLIGHTLY STIFF, SLIGHTLY MOIST		
	5	2	DP-46 (4.5)	0					
460		2		0			SILTY CLAY, BROWN, WITH GRAVEL, SUBROUNDED, UP TO 1/2", SOME SAND, FINE GRAIN, SOME BLACK NODULES, COHESIVE, SLIGHTLY MOIST		
		2		0			SILTY CLAY, BROWN, SOME BLACK NODULES,		
		2		0			SILTY CLAY, BROWN, LITTLE LIGHT GRAY MOTTLING, WITH GRAVEL, SUBROUNDED, UP TO 1/2", LITTLE SAND, MEDIUM TO COARSE GRAIN, COHESIVE, STIFF, MOIST		
	10								
455		2		0					
		2	DP-46 (13.5)	0					
							SANDY CLAY, BROWN, SOME LIGHT BLUISH-GRAY MOTTLING, WITH SILTY CLAY, FINE GRAIN, PLASTIC, STIFF, MOIST		
	15	2		0		SC			
450						GC	CLAYEY SAND, BROWN, WITH SILT, FINE TO MEDIUM GRAIN, LITTLE GRAVEL, SUBROUNDED, UP TO 3/4", COHESIVE, MOIST		
		2		0			SILTY CLAY AND GRAVEL, BROWN, SUBROUNDED, UP TO 1", SOME SAND, FINE GRAIN, INCREASING CLAY WITH DEPTH, SLIGHTLY COHESIVE, MOIST		
		2	DP-46 (18)	0			SILTY CLAY AND GRAVEL, BROWN, SUBROUNDED, UP TO 1", SOME SAND, MEDIUM TO COARSE GRAIN, INCREASING CLAY WITH DEPTH, SLIGHTLY COHESIVE, VERY MOIST, SLIGHTLY MOIST FROM 19.0'-20.0' BGS		
	20								
445		2		0		CL	SILTY CLAY, BROWN, WITH LIGHT BLUISH-GRAY MOTTLING, SOME SAND, FINE GRAIN, PLASTIC, SLIGHTLY STIFF, MOIST TO VERY MOIST		
						GC			
		2		0		CL	SAND AND GRAVEL, BROWN, WITH SILTY CLAY, FINE GRAIN, SUBROUNDED, UP TO 1", SLIGHTLY COHESIVE, MOIST		
							SILTY CLAY, BROWN, PLASTIC, VERY STIFF, SLIGHTLY MOIST		
	25						SHALE, VERY DARK GRAY, CRUMBLY, LAMINATED, SLIGHTLY STIFF, DRY		
440									

Report: WELL_LOG_REV_TEMPORARY; File: WHIRLPOOL_LOGS.GPJ; 11/18/14

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: DP-47		Date(s): **8/12/2014**	
Location: **Fort Smith, Arkansas**			
Logged By: **N. Zurweller**		Checked By: **K. Stonestreet**	
Contractor: **McCray Drilling**		Purpose: **Soil Boring**	
Drilling Method: **Direct Push**		GS Elevation: **471 amsl**	Well Not Surveyed. Collected with Trimble GeoHX.
Sampling Method: **Continuous Sampler**		North: **358584 ft**	East: **592337 ft**
Well Construction: **TEMPORARY WELL**		Borehole Dia.: **2.25 inches**	Total Depth: **27.0 feet**
Blank Casing: Sch. 40 0.75" PVC	0 FT to 17 FT	Project Number: **3434446A**	
Screen: Sch. 40 0.010 PVC	17 FT to 27 FT	Project Name: **Whirlpool Corporation**	
Annular Fill: Bentonite	13 FT to 15 FT	Remarks: Temporary well casing removed and borehole abandoned with hydrated granular bentonite.	
Sand	15 FT to 27 FT		

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Temporary Well Construction
470		2		0			SILTY FILL, BROWN TO DARK BROWN, ROOT HAIRS, SLIGHTLY STIFF, MOIST		
		2		0					
		2		0		CL	SILTY CLAY, BROWN, PLASTIC, SLIGHTLY STIFF, MOIST		
	5	2	DP-47 (5)	0			SILTY CLAY, BROWN, LITTLE RED-BROWN MOTTLING, LITTLE BLACK NODULES, LITTLE GRAVEL, SUBROUNDED, UP TO 1/4", PLASTIC, STIFF, SLIGHTLY MOIST		
465		2		0			SILTY CLAY, BROWN, LITTLE GRAY MOTTLING, SOME BLACK NODULES, TRACE GRAVEL, SUBROUNDED, UP TO 1/4", PLASTIC, STIFF, SLIGHTLY MOIST		
		2		0			SILTY CLAY, BROWN, WITH GRAY MOTTLING, SOME BLACK NODULES, TRACE GRAVEL, SUBROUNDED, UP TO 1/2", PLASTIC, VERY STIFF, SLIGHTLY MOIST		
	10	2		0			SILTY CLAY AS ABOVE, GRAVEL, SUBROUNDED, UP TO 1/4"		
460		2		0			SILTY CLAY, BROWN, WITH GRAY MOTTLING, LITTLE BLACK NODULES, TRACE GRAVEL, SUBROUNDED, UP TO 1/4", INCREASING SILT WITH DEPTH, PLASTIC, VERY STIFF, SLIGHTLY MOIST		
		2		0					
	15	2		0			SILTY CLAY, BROWN, WITH GRAY MOTTLING, LITTLE SAND, FINE GRAIN, LITTLE BLACK NODULES, TRACE GRAVEL, SUBROUNDED, UP TO 1/4", INCREASING SILT WITH DEPTH, PLASTIC, VERY STIFF, MOIST		
455		2		0			SILTY CLAY AS ABOVE, TRACE SAND		
		2		0					
	20	2		0					
450		2	DP-47 (22)	0		GC	SILTY CLAY, BROWN, SOME GRAVEL, SUBROUNDED, UP TO 1/2", SOME SAND, FINE TO MEDIUM, GRAIN, COHESIVE, SLIGHTLY STIFF, MOIST		
		2		0			SILTY CLAY AND GRAVEL, BROWN, WITH SAND, SUBROUNDED, UP TO 1", FINE TO MEDIUM GRAIN, STICKY, COHESIVE, SLIGHTLY STIFF, MOIST		
	25	2		0			SILTY CLAY AND GRAVEL, BROWN, WITH SAND, SUBROUNDED, UP TO 1", FINE TO MEDIUM GRAIN, INCREASING CLAY WITH DEPTH, STICKY, COHESIVE, SLIGHTLY STIFF, VERY MOIST		
445		2		0					
						CL	SILTY CLAY AND GRAVEL AS ABOVE, MOIST		
							SILTY CLAY, BROWN, LITTLE VERY DARK BROWN, SLIGHTLY LAMINATED, SLIGHTLY PLASTIC, SLIGHTLY STIFF, SLIGHTLY MOIST		

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: DP-48		Date(s): **8/11/2014**	
Location: **Fort Smith, Arkansas**			
Logged By: **N. Zurweller**		Checked By: **K. Stonestreet**	
Contractor: **McCray Drilling**		Purpose: **Soil Boring**	
Drilling Method: **Direct Push**		GS Elevation: **459 amsl**	Well Not Surveyed. Collected with Trimble GeoHX.
Sampling Method: **Continuous Sampler**		North: **369319 ft**	East: **592765 ft**
Well Construction: **TEMPORARY WELL**		Borehole Dia.: **2.25 inches**	Total Depth: **16.0 feet**
Blank Casing: Sch. 40 0.75" PVC	0 FT to 6 FT	Project Number: **3434446A**	
Screen: Sch. 40 0.010 PVC	6 FT to 16 FT	Project Name: **Whirlpool Corporation**	
Annular Fill: Bentonite	2 FT to 4 FT	Remarks: Temporary well casing removed and borehole abandoned with hydrated granular bentonite.	
Sand	4 FT to 16 FT		

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Temporary Well Construction
		2		0			SILTY FILL, DARK BROWN, GRAVEL, SUBANGULAR, UP TO 1/2", LOOSE, DRY		
		2		0		CL	SILTY CLAY, BROWN, LITTLE BLACK NODULES, PLASTIC, STIFF, DRY		
455		2	DP-48 (4)	0			SILTY CLAY, BROWN, SOME BLACK NODULES, LITTLE GRAY MOTTLING, PLASTIC, STIFF, SLIGHTLY MOIST		
	5	2		0			SILTY CLAY, BROWN, SOME BLACK NODULES, LITTLE GRAY MOTTLING, INCREASING SILT WITH DEPTH, PLASTIC, SLIGHTLY STIFF, SLIGHTLY MOIST		
450		2		0			SILTY CLAY, BROWN, WITH GRAVEL, SUBROUNDED, UP TO 1/2", SAND, MEDIUM TO COARSE GRAIN, COHESIVE, MOIST		
	10	2	DP-48 (11.5)	0					
		2		0			SILTY CLAY, BROWN, WITH GRAVEL, SUBROUNDED, UP TO 1/2", SAND, MEDIUM TO COARSE GRAIN, SLIGHTLY COHESIVE, SLIGHTLY MOIST		
445									
	15	2		0			SILTY CLAY, BROWN, TRACE BLACK NODULES, PLASTIC, VERY STIFF, MOIST		
							SHALE, VERY DARK GRAY AND VERY DARK GRAYISH-BROWN, CRUMBLY, LAMINATED, SLIGHTLY STIFF, DRY		
440									
	20								
435									
	25								
430									

Report: WELL_LOG_REV_TEMPORARY; File: WHIRLPOOL_LOGS.GPJ; 11/18/14

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: DP-49		Date(s): **8/14/2014**	
Location: **Fort Smith, Arkansas**			
Logged By: **N. Zurweller**		Checked By: **K. Stonestreet**	
Contractor: **McCray Drilling**		Purpose: **Soil Boring**	
Drilling Method: **Direct Push**		GS Elevation: **459 amsl**	Well Not Surveyed. Collected with Trimble GeoHX.
Sampling Method: **Continuous Sampler**		North: **369496 ft**	East: **592604 ft**
Well Construction: **TEMPORARY WELL**		Borehole Dia.: **2.25 inches**	Total Depth: **16.0 feet**
Blank Casing: Sch. 40 0.75" PVC	0 FT to 6 FT	Project Number: **3434446A**	
Screen: Sch. 40 0.010 PVC	6 FT to 16 FT	Project Name: **Whirlpool Corporation**	
Annular Fill: Bentonite	2 FT to 4 FT	Remarks: Temporary well casing removed and borehole abandoned with hydrated granular bentonite.	
Sand	4 FT to 16 FT		

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Temporary Well Construction
		2		0			SILTY FILL, DARK BROWN, ROOT HAIRS, SLIGHTLY STIFF, MOIST		
		2		0.1		CL	SILTY CLAY, BROWN, LITTLE RED MOTTLING, TRACE GRAVEL, SUBROUNDED, UP TO 1/4", LITTLE BLACK NODULES, PLASTIC, STIFF, MOIST		
455			DP-49 (4)						
	5	2		0					
		2		0			SILTY CLAY, BROWN, WITH GRAVEL AND SAND, SUBROUNDED, UP TO 1/2", MEDIUM TO COARSE GRAIN, COHESIVE, MOIST		
450		2		0					
	10		DP-49 (10)				SILTY CLAY AS ABOVE, VERY MOIST		
		2		0					
		2	DP-49 (13)	0		GC	SAND AND GRAVEL, BROWN, WITH SILTY CLAY, MEDIUM TO COARSE GRAIN, SUBROUNDED, UP TO 1/2", COHESIVE, STICKY, WET		
445						CL			
	15	2		0			SILTY CLAY, BROWN, PLASTIC, VERY STIFF, MOIST TO SLIGHTLY MOIST		
							SHALE, VERY DARK GRAY AND VERY DARK GRAY-BROWN, CRUMBLY, LAMINATED, SLIGHTLY STIFF, DRY		
440	20								
435	25								
430									

Report: WELL_LOG_REV_TEMPORARY; File: WHIRLPOOL_LOGS.GPJ; 11/18/14

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: DP-50	Date(s): **8/14/2014**
Location: **Fort Smith, Arkansas**	
Logged By: **N. Zurweller**	Checked By: **K. Stonestreet**
Contractor: **McCray Drilling**	Purpose: **Soil Boring**
Drilling Method: **Direct Push**	GS Elevation: **462 amsl** — Well Not Surveyed. Collected with Trimble GeoHX.
Sampling Method: **Continuous Sampler**	North: **369508 ft** — East: **592465 ft**
Well Construction: **TEMPORARY WELL**	Borehole Dia.: **2.25 inches** — Total Depth: **18.0 feet**
Blank Casing: Sch. 40 0.75" PVC 0 FT to 8 FT	Project Number: **3434446A**
Screen: Sch. 40 0.010 PVC 8 FT to 18 FT	Project Name: **Whirlpool Corporation**
Annular Fill: Bentronite 2 FT to 6 FT; Sand 6 FT to 18 FT	Remarks: Temporary well casing removed and borehole abandoned with hydrated granular bentonite.

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	USCS Code	Material Description	Water Level	Temporary Well Construction
		2		0.2		SILTY FILL, DARK BROWN, ROOT HAIRS, SLIGHTLY STIFF, MOIST		
460		2		0	CL	SILTY CLAY, BROWN, LITTLE LIGHT GRAY MOTTLING, LITTLE BLACK NODULES, TRACE GRAVEL, SUBROUNDED, UP TO 1/4", PLASTIC, VERY STIFF, SLIGHTLY MOIST		
		2	DP-50 (4)	0				
	5	2		0				
455		2		0		SILTY CLAY, BROWN, WITH GRAVEL AND SAND, SUBROUNDED, UP TO 1/2", FINE GRAIN, COHESIVE, SLIGHTLY STIFF, SLIGHTLY MOIST		
		2		0		SILTY CLAY, BROWN, LITTLE GRAY MOTTLING, LITTLE BLACK NODULES, PLASTIC, STIFF, SLIGHTLY MOIST		
	10	2	DP-50 (10)	0		SILTY CLAY AS ABOVE, LITTLE SAND, FINE GRAIN, INCREASING SILT		
450		2		0		SANDY CLAY, BROWN, LITTLE LIGHT GRAY MOTTLING, WITH SILT, WITH GRAVEL, SUBROUNDED, UP TO 1/4", FINE GRAIN, SLIGHTLY PLASTIC, SLIGHTLY STIFF, MOIST		
		2		0		SILTY CLAY, BROWN, WITH GRAVEL AND SAND, SUBROUNDED, UP TO 1/2", MEDIUM TO COARSE GRAIN, COHESIVE, MOIST TO VERY MOIST		
	15	2		0				
445		2		0		SILTY CLAY, BROWN, TRACE BLACK NODULES, PLASTIC, VERY STIFF, MOIST		
						SHALE, VERY DARK GRAY AND VERY DARK GRAYISH BROWN, LITTLE SILTY CLAY, CRUMBLY, LAMINATED, STIFF, DRY		
	20							
440								
	25							
435								

Report: WELL_LOG_REV_TEMPORARY; File: WHIRLPOOL_LOGS.GPJ; 11/18/14

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: DP-51		Date(s): **8/18/2014**	
Location: **Fort Smith, Arkansas**			
Logged By: **N. Zurweller**		Checked By: **K. Stonestreet**	
Contractor: **McCray Drilling**		Purpose: **Soil Boring**	
Drilling Method: **Direct Push**		GS Elevation: **464 amsl**	Well Not Surveyed. Collected with Trimble GeoHX.
Sampling Method: **Continuous Sampler**		North: **369399 ft**	East: **592682 ft**
Well Construction: **TEMPORARY WELL**		Borehole Dia.: **2.25 inches**	Total Depth: **18.0 feet**
Blank Casing: Sch. 40 0.75" PVC	0 FT to 13 FT	Project Number: **3434446A**	
Screen: Sch. 40 0.010 PVC	13 FT to 18 FT	Project Name: **Whirlpool Corporation**	
Annular Fill: Bentonite	9 FT to 11 FT	Remarks: Temporary well casing removed and borehole abandoned with hydrated granular bentonite.	
Sand	11 FT to 18 FT		

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Temporary Well Construction
		2	DP-51 (1)	0.3			SILTY FILL, DARK BROWN, WITH BROWN, LITTLE GRAVEL, SUBROUNDED AND SUBANGULAR, UP TO 1/2", ROOT HAIRS, SLIGHTLY COHESIVE, DRY		
		2		0		CL	FILL AS ABOVE, VERY MOIST		
460		2		2			SILTY CLAY, BROWN, LITTLE GRAVEL, SUBROUNDED, UP TO 1/4", LITTLE BLACK NODULES, SLIGHTLY PLASTIC, STIFF, SLIGHTLY MOIST		
	5	2		0			SILTY CLAY, BROWN, LITTLE GRAY MOTTLING, LITTLE GRAVEL, SUBROUNDED, UP TO 1/4", LITTLE BLACK NODULES, PLASTIC, STIFF, MOIST		
		2		0			SILTY CLAY AS ABOVE, WITH GRAY MOTTLING		
455		2		0			SILTY CLAY, BROWN, WITH BLUISH GRAY MOTTLING, LITTLE GRAVEL AND SAND, SUBROUNDED, UP TO 1/4", FINE GRAIN, LITTLE BLACK NODULES, PLASTIC, STIFF, MOIST, INCREASING SILT WITH DEPTH		
	10	4		0			SILTY CLAY, BROWN, WITH GRAVEL AND SAND, SUBROUNDED, UP TO 1", MEDIUM TO COARSE GRAIN, SLIGHTLY STIFF, COHESIVE, MOIST		
		2		0.9			SILTY CLAY AS ABOVE, MOIST TO VERY MOIST		
450			DP-51 (14)						
	15	2		0.8			SILTY CLAY, BROWN, TRACE BLACK NODULES, PLASTIC, VERY STIFF, SLIGHTLY MOIST		
		2		0			SILTY CLAY, DARK GRAYISH BROWN, WITH WEATHERED SHALE, CRUMBLY, LAMINATED, STIFF, DRY		
445							SHALE, DARK GRAYISH BROWN TO VERY DARK GRAYISH BROWN, CRUMBLY, LAMINATED, SLIGHTLY STIFF, DRY		
	20								
440									
	25								
435									

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: DP-52		Date(s): **8/18/2014**	
Location: **Fort Smith, Arkansas**			
Logged By: **N. Zurweller**		Checked By: **K. Stonestreet**	
Contractor: **McCray Drilling**		Purpose: **Soil Boring**	
Drilling Method: **Direct Push**		GS Elevation: **458 amsl**	Well Not Surveyed. Collected with Trimble GeoHX.
Sampling Method: **Continuous Sampler**		North: **369528 ft**	East: **592688 ft**
Well Construction: **TEMPORARY WELL**		Borehole Dia.: **2.25 inches**	Total Depth: **17.0 feet**
Blank Casing: Sch. 40 0.75" PVC	0 FT to 7 FT	Project Number: **3434446A**	
Screen: Sch. 40 0.010 PVC	7 FT to 17 FT	Project Name: **Whirlpool Corporation**	
Annular Fill: Bentonite	3 FT to 5 FT	Remarks: Temporary well casing removed and borehole abandoned with hydrated granular bentonite.	
Sand	5 FT to 17 FT		

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Temporary Well Construction
		2		0			NO RECOVERY		
455		0							
		2	DP-52 (4)	0.6		CL	SILTY CLAY, BROWN, PLASTIC, SLIGHTLY STIFF, VERY MOIST		
	5	2		0			SILTY CLAY, BROWN, LITTLE LIGHT GRAY MOTTLING, LITTLE GRAVEL, SUBROUNDED, UP TO 1/2", LITTLE BLACK NODULES, PLASTIC, STIFF, MOIST		
450		2		0			SILTY CLAY, BROWN, WITH GRAVEL AND SAND, SUBROUNDED, UP TO 1/2", MEDIUM TO COARSE GRAIN, LITTLE BLACK NODULES, COHESIVE, STIFF, MOIST		
	10	2	DP-52 (11)	0			SILTY CLAY AS ABOVE, MOIST TO VERY MOIST, STICKY, INCREASING CLAY WITH DEPTH		
445		0					SILTY CLAY, BROWN, WITH GRAVEL AND SAND, SUBROUNDED UP TO 1", MEDIUM TO COARSE GRAIN, COHESIVE, STIFF, MOIST		
	15	2		0			NO RECOVERY		
		1		0			SHALE, VERY DARK GRAY, CRUMBLY, LAMINATED, SLIGHTLY STIFF, DRY		
440									
	20								
435									
	25								
430									

Report: WELL_LOG_REV_TEMPORARY; File: WHIRLPOOL_LOGS.GPJ; 11/18/14

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: DP-53		Date(s): **8/18/2014**	
Location: **Fort Smith, Arkansas**			
Logged By: **N. Zurweller**		Checked By: **K. Stonestreet**	
Contractor: **McCray Drilling**		Purpose: **Soil Boring**	
Drilling Method: **Direct Push**		GS Elevation: **455 amsl**	Well Not Surveyed. Collected with Trimble GeoHX.
Sampling Method: **Continuous Sampler**		North: **369618 ft**	East: **592851 ft**
Well Construction: **TEMPORARY WELL**		Borehole Dia.: **2.25 inches**	Total Depth: **13.0 feet**
Blank Casing: Sch. 40 0.75" PVC	0 FT to 6 FT	Project Number: **3434446A**	
Screen: Sch. 40 0.010 PVC	6 FT to 13 FT	Project Name: **Whirlpool Corporation**	
Annular Fill: Bentonite	0 FT to 4 FT	Remarks: Temporary well casing removed and borehole abandoned with hydrated granular bentonite.	
Sand	4 FT to 13 FT		

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Temporary Well Construction
455		2	DP-53 (1)	0.1			SILTY FILL, DARK BROWN, SOME ROOT HAIRS, TRACE GRAVEL, SUBROUNDED UP TO 1/4", SLIGHTLY COHESIVE, SLIGHTLY MOIST		
		2		0		CL	SILTY CLAY, BROWN, LITTLE LIGHT GRAY MOTTLING, LITTLE BLACK NODULES, TRACE GRAVEL, SUBROUNDED UP TO 1/4", PLASTIC, SLIGHTLY STIFF, MOIST		
450	5	2		0			SILTY CLAY, BROWN, SOME LIGHT GRAY MOTTLING, SOME SAND, FINE, SOME GRAVEL, SUBROUNDED UP TO 1/4", TRACE BLACK NODULES, PLASTIC, SLIGHTLY STIFF, SLIGHTLY STICKY, MOIST		
		2		0			SILTY CLAY, BROWN, LITTLE LIGHT GRAY MOTTLING, WITH SAND, MEDIUM TO COARSE, WITH GRAVEL, SUBROUNDED UP TO 3/4", COHESIVE, MOIST TO VERY MOIST		
		2	DP-53 (8.5)	0			SILTY CLAY, BROWN, LITTLE DARK GRAYISH BROWN, PLASTIC, VERY STIFF, SLIGHTLY LAMINATED, SLIGHTLY MOIST		
445	10	2		0			SILTY CLAY, DARK GRAYISH BROWN, WITH WEATHERED SHALE, SLIGHTLY PLASTIC, STIFF, SLIGHTLY LAMINATED, SLIGHTLY MOIST		
		1		0			SHALE, VERY DARK GRAYISH BROWN, LITTLE DARK GRAYISH BROWN, CRUMBLY, LAMINATED, DRY		
440	15								
435	20								
430	25								

Report: WELL_LOG_REV_TEMPORARY; File: WHIRLPOOL_LOGS.GPJ; 11/18/14

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: MW-87	Date(s): **6/24/2014**
Location: **Fort Smith, Arkansas**	
Logged By: **N. Zurweller**	Checked By: **K. Stonestreet**
Contractor: **Walker-Hill Environmental**	Purpose: **Monitoring Well**
Drilling Method: **Sonic**	GS Elevation: **471.02 amsl** / TOC Elevation: **470.78 amsl**
Sampling Method: **Continuous Sampler**	North: **368835.33** / East: **592268.87**
Borehole Dia.: **6 inches**	Total Depth: **27.0 feet**
Project Number: **3434446A**	
Project Name: **Whirlpool Corporation**	
Remarks:	

Well Construction:

Blank Casing:	Sch 40 PVC 2 Inch	0 FT to 17 FT
Screen:	Sch. 40 0.10 PVC	17 FT to 27 FT
Annular Fill:	Cement Grout	0 FT to 11.5 FT
	Bentonite	11.5 FT to 14.5 FT
	Sand	14.5 FT to 27 FT

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Well Construction (Flush Mount)
470				1.0			Asphalt		
		3.8		2.7		MH	Clayey Silt, dark grayish brown, little root hairs, stiff, slightly cohesive, slightly plastic, moist		
	5		MW-87 (4.5)						
465				0.6		CL	Silty Clay, strong brown, with light gray mottling, some black nodules, little subrounded gravel up to 1/4", stiff, plastic, slightly moist		
		5		0.8					
	10								
460				3.6			Silty Clay as above, little black nodules, very stiff	▼	
		5		7.0					
	15		MW-87 (15)				Silty Clay, strong brown, little light gray mottling, with fine sand, some subrounded and subangular gravel up to 1/4", stiff, plastic, moist		
455				4.1					
		5		6.3					
	20					GC	Silty Clay and Gravel, strong brown, subrounded gravel up to 1", fine to medium sand, slightly stiff, very cohesive, slightly plastic, moist to to very moist, increasing silty clay with depth		
		2		3.5					
450				1.8		CL	Silty Clay, strong brown, little dark gray, hard, plastic, slightly moist		
		5					Shale, very dark gray, hard, laminated, dry, crumbles with hand pressure		
	25			0.6					
445									

▼ Static ground water

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: MW-88	Date(s): **6/23/2014**
Location: **Fort Smith, Arkansas**	
Logged By: **N. Zurweller**	Checked By: **K. Stonestreet**
Contractor: **Walker-Hill Environmental**	Purpose: **Monitoring Well**
Drilling Method: **Sonic**	GS Elevation: **469.12 amsl** / TOC Elevation: **468.89 amsl**
Sampling Method: **Continuous Sampler**	North: **369043.00** / East: **592151.24**
Borehole Dia.: **6 inches**	Total Depth: **28.0 feet**
Project Number: **3434446A**	
Project Name: **Whirlpool Corporation**	
Remarks:	

Well Construction:

Blank Casing:	Sch 40 PVC 2 Inch	0 FT to 18
Screen:	Sch. 40 0.10 PVC	18 FT to 28 FT
Annular Fill:	Cement Grout	0 FT to 13 FT
	Bentonite	13 FT to 16 FT
	Sand	16 FT to 28 FT

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Well Construction (Flush Mount)
							Asphalt		
465	5	3.5		14.2		CL	Silty Clay, strong brown, some light gray mottling, some red mottling, some fine sand, little subrounded gravel up to 1/4", little black nodules, stiff, slightly plastic, moist		
				13.7					
							Silty Clay as above, plastic		
		5		20.0			Silty Clay, strong brown and grayish brown, little clayey silt, some black nodules, little subrounded gravel up to 1/4", little fine sand, very stiff, plastic to slightly plastic, slightly moist		
460	10			20.6				▼	
							Silty Clay as above, very stiff		
		5	MW-88 (12)	35.7					
455	15			18.8			Sandy Clay, strong brown, with silt, with subrounded gravel up to 1/2", fine to medium sand, cohesive, moist		
							Sandy Clay as above, little light gray mottling		
		4		22.4					
450	20			39.4		GC	Silty Clay and Gravel, strong brown, with fine sand, subrounded to subangular gravel up to 1", hard, dry		
						MH	Clayey Silt, dark brown, some strong brown, laminated, hard, dry		
		4		15.1					
445	25			12.5			Shale, with clayey silt, dark grayish brown, laminated, hard, dry		
				6.2			Shale, dark grayish brown and very dark gray, laminated, hard, dry		
		4		3.2					
440									

▼ Static ground water

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: MW-89	Date(s): **6/23/2014**
Location: **Fort Smith, Arkansas**	
Logged By: **N. Zurweller**	Checked By: **K. Stonestreet**
Contractor: **Walker-Hill Environmental**	Purpose: **Monitoring Well**
Drilling Method: **Sonic**	GS Elevation: **467.08 amsl** / TOC Elevation: **466.91 amsl**
Sampling Method: **Continuous Sampler**	North: **369059.25** / East: **592356.91**
Borehole Dia.: **6 inches**	Total Depth: **25.0 feet**
Project Number: **3434446A**	
Project Name: **Whirlpool Corporation**	
Remarks:	

Well Construction:

Blank Casing:	Sch 40 PVC 2 Inch	0 FT to 15 FT
Screen:	Sch. 40 0.10 PVC	15 FT to 25 FT
Annular Fill:	Cement Grout	0 FT to 10 FT
	Bentonite	10 FT to 13 FT
	Sand	13 FT to 25 FT

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	USCS Code	Material Description
						Asphalt
465		3.5		21.2	MH	Clayey Silt, dark grayish brown, with root hairs, plastic, moist
				37.8		Clayey Silt as above, slightly plastic, very moist, wood debris at 4.0-4.3' bgs
	5					Clayey Silt as above, little subrounded gravel up to 1/4", soft
				42.2	CL	Silty Clay, strong brown, some gray and red mottling, little subrounded gravel up to 1/4", little black nodules, very stiff, plastic, moist, some subrounded to subangular gravel last at 9.8-10.0' bgs
460		4.6		49.2		
	10					Silty Clay as above, some dark brown
				36.3		
455		5				Silty Clay, strong brown, some light gray mottling, some fine sand, very stiff, slightly plastic, dry
				20.5		
	15					Sandy Clay, strong brown, little light bluish gray mottling, with silt, fine to medium sand, slightly stiff, cohesive, slightly moist to moist
				57.8		
450		5	MW-89 (17.5)			Sandy Clay, strong brown, with silt, with subrounded gravel up to 1", fine to medium sand, stiff, dry
				48.2		
	20					Shale, very dark gray to dark grayish brown, some clayey silt, hard, laminated, dry, crumbles with hand pressure
445		5		15.8		
	25					
440						

Water Level: ▼

Well Construction: Flush Mount

▼ Static ground water

Report: WELL_LOG_REV_MKE; File: WHIRLPOOL_LOGS.GPJ; 11/18/14

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: MW-90	Date(s): **6/23/2014**
Location: **Fort Smith, Arkansas**	
Logged By: **N. Zurweller**	Checked By: **K. Stonestreet**
Contractor: **Walker-Hill Environmental**	Purpose: **Monitoring Well**
Drilling Method: **Sonic**	GS Elevation: **466.97 amsl** / TOC Elevation: **466.71 amsl**
Sampling Method: **Continuous Sampler**	North: **369157.02** / East: **592156.74**
Borehole Dia.: **6 inches**	Total Depth: **25.0 feet**
Project Number: **3434446A**	
Project Name: **Whirlpool Corporation**	
Remarks:	

Well Construction:

Blank Casing: Sch 40 PVC 2 Inch — 0 FT to 15 FT

Screen: Sch. 40 0.10 PVC — 15 FT to 25 FT

Annular Fill: Cement Grout — 0 FT to 10 FT; Bentonite — 10 FT to 13 FT; Sand — 13 FT to 25 FT

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	USCS Code	Material Description
						Asphalt
						Fill, sand and gravel, dark brown, medium sand, moist, slightly cohesive
465		2.5		20.2	CL	Silty Clay, strong brown, little light gray and red mottling, little black nodules, little subrounded gravel up to 1/4", very stiff, plastic, moist
	5					
		5		23.8		Silty Clay as above, moist to very moist, stiff
460						
				22.1		Silty Clay as above, moist, very stiff
	10					Silty Clay as above, with black nodules, increasing silt with depth
455		5		28.6		Sandy Clay, strong brown, some light gray mottling, with silt, some subrounded gravel up to 1/4", fine sand, very stiff, slightly plastic, slightly moist
			MW-90 (14.5)	38.3		
	15					Sandy Clay, strong brown, with silt, with subrounded gravel up to 1/2", medium sand, cohesive, moist
				21.3		
450		5.5				Sandy Clay, strong brown, some light gray mottling, with silt, with subrounded gravel up to 1", medium sand, cohesive, slightly moist to moist
				21.8		
	20		MW-90 (20.5)		MH	Clayey Silt, strong brown, some dark brown, some weathered shale, hard, laminated, dry
				23.1		
445		5.5				
				14.3		
	25					Shale, very dark gray, hard, laminated, dry, crumbles with hand pressure
440						

Water Level

Well Construction — Flush Mount

▼ Static ground water

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: MW-91	Date(s): **6/24/2014**
Location: **Fort Smith, Arkansas**	
Logged By: **N. Zurweller**	Checked By: **K. Stonestreet**
Contractor: **Walker-Hill Environmental**	Purpose: **Monitoring Well**
Drilling Method: **Sonic**	GS Elevation: **469.15 amsl** / TOC Elevation: **468.90 amsl**
Sampling Method: **Continuous Sampler**	North: **368830.37** / East: **592370.83**
Borehole Dia.: **6 inches**	Total Depth: **25.0 feet**
Project Number: **3434446A**	
Project Name: **Whirlpool Corporation**	
Remarks:	

Well Construction:

Blank Casing:	Sch 40 PVC 2 Inch	0 FT to 15 FT
Screen:	Sch. 40 0.10 PVC	15 FT to 25 FT
Annular Fill:	Cement Grout	0 FT to 10 FT
	Bentonite	10 FT to 13 FT
	Sand	13 FT to 25 FT

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Well Construction (Flush Mount)
							Fill, clayey sand and gravel, very dark brown, moist		
		5		4		MH	Clayey Silt, dark brown, slightly plastic, very moist		
465	5			4.5		CL	Silty Clay, strong brown, little light gray and red mottling, stiff, plastic, moist		
		5		5.1			Silty Clay, strong brown, with light gray mottling, little subrounded to subangular gravel up to 1/2", very stiff, plastic, slightly moist		
460	10			4.8				▼	
		3	MW-91 (12.5)	5.8		GC	Clayey Sand and Gravel, subrounded to subangular gravel up to 1/2", fine sand, very cohesive, sticky, wet, note: lost first 2' out of sample bag		
455	15			4.5		CL	Silty Clay, strong brown, with light gray mottling, little subrounded to subangular gravel up to 1/2", very stiff, plastic, slightly moist		
		4.5		5.9			Silty Clay, strong brown, some light bluish gray mottling, with subrounded to subangular gravel up to 1/2", with fine to medium sand, very stiff, slightly plastic, slightly moist to moist		
450	20			6		GC	Sandy Clay and Gravel, subrounded to subangular gravel up to 1/2", fine sand, very cohesive, sticky, wet, note: lost first 2' out of sample bag		
						CL	Silty Clay, strong brown, some light bluish gray mottling, with subrounded to subangular gravel up to 1/2", with fine to medium sand, very stiff, slightly plastic, slightly moist to moist		
				11.4		MH	Clayey Silt, strong brown, some dark grayish brown, hard, slightly plastic, dry		
		4.5							
445	25			3.5			Shale, very dark gray, hard, laminated, dry		
440									

▼ Static ground water

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: MW-96		Date(s): **10/15/2014**	
Location: **Fort Smith, Arkansas**			
Logged By: **M. Eddings**		Checked By: **K. Stonestreet**	
Contractor: **Able Environmental**		Purpose: **Monitoring Well**	
Drilling Method: **Hollow Stem Auger**		GS Elevation: **458.25 amsl**	TOC Elevation: **457.83 amsl**
Sampling Method: **Continuous Sampler**		North: **369354.53**	East: **592775.05**
Well Construction:		Borehole Dia.: **8.25 inches**	Total Depth: **15.0 feet**
Blank Casing: Sch 40 PVC 2 Inch	0 FT to 10 FT	Project Number: **3434446A**	
Screen: Sch. 40 0.10 PVC	10 FT to 15 FT	Project Name: **Whirlpool Corporation**	
Annular Fill: Cement Grout Bentonite Sand	0 FT to 6 FT 6 FT to 8 FT 8 FT to 15 FT	Remarks: Lithology is from the collocated soil boring DP-48 complete in August 2014.	

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Well Construction
		2		0			SILTY FILL, DARK BROWN, GRAVEL, SUBANGULAR, UP TO 1/2", LOOSE, DRY		Flush Mount
455		2		0		CL	SILTY CLAY, BROWN, LITTLE BLACK NODULES, PLASTIC, STIFF, DRY		
	5	2	DP-48 (4)	0			SILTY CLAY, BROWN, SOME BLACK NODULES, LITTLE GRAY MOTTLING, PLASTIC, STIFF, SLIGHTLY MOIST		
		2		0			SILTY CLAY, BROWN, SOME BLACK NODULES, LITTLE GRAY MOTTLING, INCREASING SILT WITH DEPTH, PLASTIC, SLIGHTLY STIFF, SLIGHTLY MOIST	▼	
450		2		0			SILTY CLAY, BROWN, WITH GRAVEL, SUBROUNDED, UP TO 1/2", SAND, MEDIUM TO COARSE GRAIN, COHESIVE, MOIST		
	10	2	DP-48 (11.5)	0					
445		2		0			SILTY CLAY, BROWN, WITH GRAVEL, SUBROUNDED, UP TO 1/2", SAND, MEDIUM TO COARSE GRAIN, SLIGHTLY COHESIVE, SLIGHTLY MOIST		
	15	2		0			SILTY CLAY, BROWN, TRACE BLACK NODULES, PLASTIC, VERY STIFF, MOIST		
							SHALE, VERY DARK GRAY AND VERY DARK GRAYISH-BROWN, CRUMBLY, LAMINATED, SLIGHTLY STIFF, DRY		
440									
	20								
435									
	25								
430									

▼ Static ground water

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: MW-97		Date(s): **10/15/2014**	
Location: **Fort Smith, Arkansas**			
Logged By: **M. Eddings**		Checked By: **K. Stonestreet**	
Contractor: **Able Environmental**		Purpose: **Monitoring Well**	
Drilling Method: **Hollow Stem Auger**		GS Elevation: **459.89 amsl**	TOC Elevation: **459.43 amsl**
Sampling Method: **Continuous Sampler**		North: **369526.92**	East: **592686.92**
Well Construction:		Borehole Dia.: **8.25 inches**	Total Depth: **16.5 feet**
Blank Casing: Sch 40 PVC 2 Inch	0 FT to 11.5 FT	Project Number: **3434446A**	
Screen: Sch. 40 0.10 PVC	11.5 FT to 16.5 FT	Project Name: **Whirlpool Corporation**	
Annular Fill: Cement Grout Bentonite Sand	0 FT to 7.5 FT 7.5 FT to 9.5 FT 9.5 FT to 16.5 FT	Remarks: Lithology is from the collocated soil boring DP-52 complete in August 2014.	

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Well Construction
		2		0			NO RECOVERY		Flush Mount
		0							
			DP-52 (4)						
455	5	2		0.6		CL	SILTY CLAY, BROWN, PLASTIC, SLIGHTLY STIFF, VERY MOIST		
		2		0			SILTY CLAY, BROWN, LITTLE LIGHT GRAY MOTTLING, LITTLE GRAVEL, SUBROUNDED, UP TO 1/2", LITTLE BLACK NODULES, PLASTIC, STIFF, MOIST		
		2		0			SILTY CLAY, BROWN, WITH GRAVEL AND SAND, SUBROUNDED, UP TO 1/2", MEDIUM TO COARSE GRAIN, LITTLE BLACK NODULES, COHESIVE, STIFF, MOIST		
450	10	2	DP-52 (11)	0			SILTY CLAY AS ABOVE, MOIST TO VERY MOIST, STICKY, INCREASING CLAY WITH DEPTH	▼	
		0					SILTY CLAY, BROWN, WITH GRAVEL AND SAND, SUBROUNDED UP TO 1", MEDIUM TO COARSE GRAIN, COHESIVE, STIFF, MOIST		
445	15	2		0			NO RECOVERY		
		1		0			SHALE, VERY DARK GRAY, CRUMBLY, LAMINATED, SLIGHTLY STIFF, DRY		
440	20								
435	25								

▼ Static ground water

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: MW-98		Date(s): **10/16/2014**	
Location: **Fort Smith, Arkansas**			
Logged By: **M. Eddings**		Checked By: **K. Stonestreet**	
Contractor: **Able Environmental**		Purpose: **Monitoring Well**	
Drilling Method: **Hollow Stem Auger**		GS Elevation: **461.99 amsl**	TOC Elevation: **461.62 amsl**
Sampling Method: **Continuous Sampler**		North: **369197.55**	East: **592840.10**
Well Construction:		Borehole Dia.: **8.25 inches**	Total Depth: **20.0 feet**
Blank Casing: Sch 40 PVC 2 Inch	0 FT to 15 FT	Project Number: **3434446A**	
Screen: Sch. 40 0.10 PVC	15 FT to 20 FT	Project Name: **Whirlpool Corporation**	
Annular Fill: Cement Grout Bentonite Sand	0 FT to 11 FT 11 FT to 13 FT 13 FT to 20 FT	Remarks: Lithology is from the collocated soil boring DP-41 complete in August 2014.	

Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description	Water Level	Well Construction
460		2		0			CLAYEY SILT FILL, LIGHT BROWN, LITTLE ROOT HAIRS, LOOSE, DRY		Flush Mount
		2		0		CL	SILTY CLAY, BROWN, LITTLE LIGHT GRAY MOTTLING, TRACE BLACK NODULES, PLASTIC, STIFF, SLIGHTLY MOIST		
	5	2	DP-41 (4)	0			SILTY CLAY, BROWN, LITTLE LIGHT GRAY MOTTLING, LITTLE BLACK NODULES, PLASTIC, STIFF, SLIGHTLY MOIST		
455		2		0			SILTY CLAY, BROWN, SOME LIGHT GRAY MOTTLING, SOME BLACK NODULES, PLASTIC, STIFF, SLIGHTLY MOIST		
		2		0			SILTY CLAY, BROWN, LIGHT GRAY MOTTLING, SOME BLACK NODULES, LITTLE SAND, FINE GRAIN, INCREASING SILT WITH DEPTH, PLASTIC, STIFF, MOIST		
	10	2	DP-41 (10)	0					
450		2		0		GC	SILTY CLAY, BROWN, LIGHT GRAY MOTTLING, SOME GRAVEL, SUBROUNDED, UP TO 1/4", SOME BLACK NODULES, LITTLE SAND, FINE GRAIN, INCREASING SILT WITH DEPTH, PLASTIC, STIFF, MOIST TO VERY MOIST		
		2	DP-41 (14)	0			SILTY CLAY AND GRAVEL, SOME SAND, SUBROUNDED, UP TO 3/4", MEDIUM TO COARSE GRAIN, GRAY MOTTLING LAST 1.0', COHESIVE, STICKY, MOIST TO VERY MOIST		
	15	2		0		CL	SILTY CLAY AND GRAVEL, LITTLE SAND, SUBROUNDED, UP TO 3/4", FINE GRAIN, COHESIVE, STICKY, MOIST TO VERY MOIST, INCREASING SILTY CLAY WITH DEPTH		
445		2		0		GC	SILTY CLAY, BROWN, PLASTIC, VERY STIFF, VERY MOIST		
		2		0		CL	SILTY CLAY, BROWN, WITH BLUISH GRAY MOTTLING, WITH BLACK NODULES, SOME SAND, MEDIUM GRAIN, PLASTIC, STIFF, MOIST		
	20						SILTY CLAY AND GRAVEL, BROWN, WITH SAND, SUBROUNDED, UP TO 3/4", MEDIUM TO COARSE GRAIN, COHESIVE, MOIST TO VERY MOIST		
440							SILTY CLAY, BROWN, LITTLE LIGHT GRAY, SLIGHTLY LAMINATED, SLIGHTLY PLASTIC TO PLASTIC, STIFF TO VERY STIFF, SLIGHTLY MOIST		
							SILTY CLAY, VERY DARK GRAY, SOME WEATHERED SHALE, PLASTIC, STIFF, SLIGHTLY MOIST		
	25						SHALE, VERY DARK GRAY, CRUMBLY, LAMINATED, DRY		
435									

ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: MW-99	Date(s): **10/16/2014**
Location: **Fort Smith, Arkansas**	
Logged By: **M. Eddings**	Checked By: **K. Stonestreet**
Contractor: **Able Environmental**	Purpose: **Monitoring Well**
Drilling Method: **Hollow Stem Auger**	GS Elevation: **467.07 amsl** / TOC Elevation: **466.80 amsl**
Sampling Method: **Continuous Sampler**	North: **368813.98** / East: **592554.45**
Borehole Dia.: **8.25 inches**	Total Depth: **23.5 feet**
Project Number: **3434446A**	
Project Name: **Whirlpool Corporation**	

Well Construction:

Blank Casing: Sch 40 PVC 2 Inch — 0 FT to 18.5 FT

Screen: Sch. 40 0.10 PVC — 18.5 FT to 23.5 FT

Annular Fill: Cement Grout — 0 FT to 14.5 FT; Bentonite — 14.5 FT to 16.5 FT; Sand — 16.5 FT to 23.5 FT

Remarks: Lithology is from the collocated soil boring DP-44 complete in August 2014.

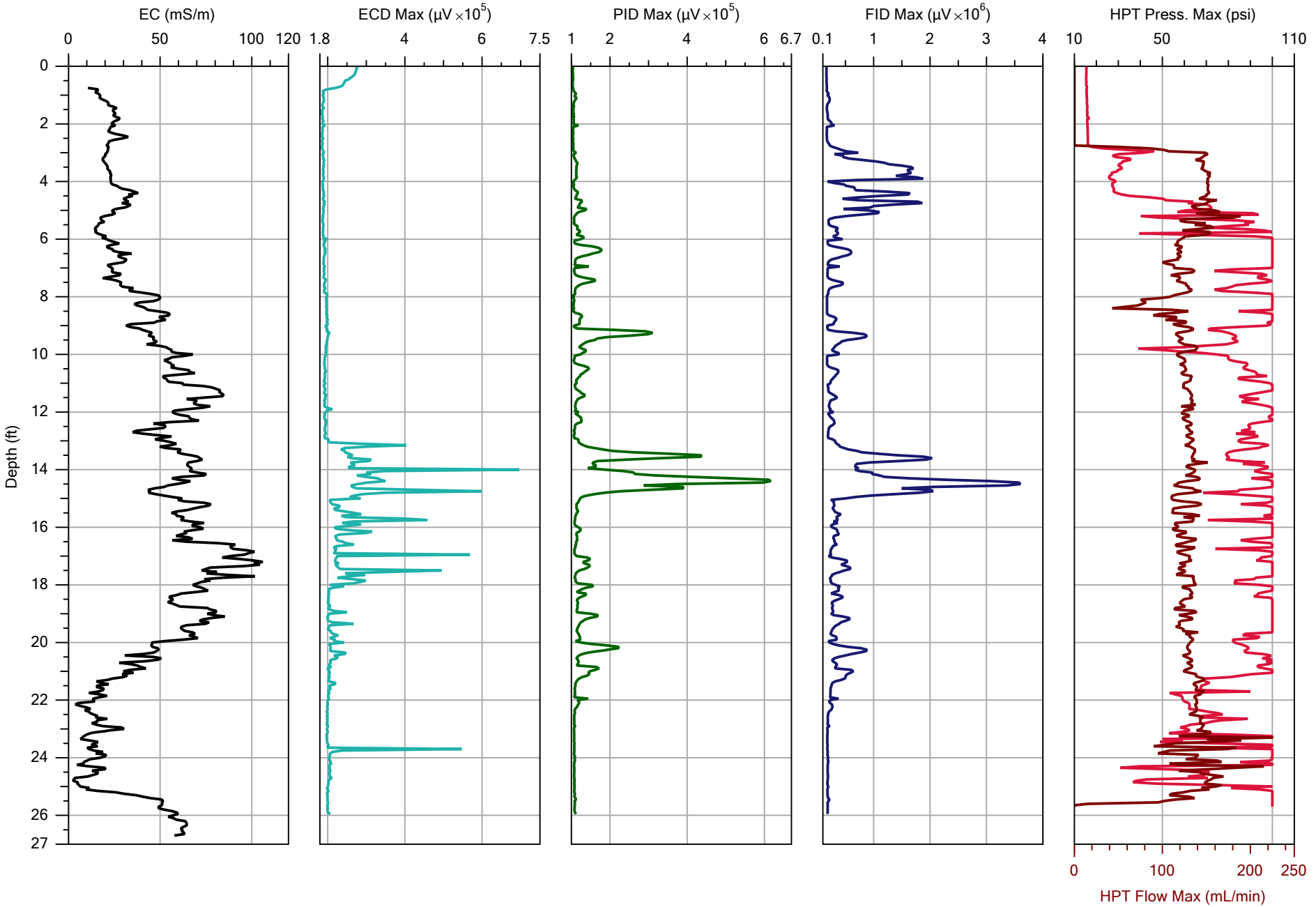
Elevation (ft)	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	USCS Code	Material Description
465	0	2		0	CL	TOP SOIL
						CLAY, LIGHT BROWN, VERY SILTY, DRY
		2		0		CLAY, BROWN, SILTY, FIRM, OCCASIONAL GRAVEL, FINE GRAIN, MOIST
		2	DP-44 (4)	0		
	5	2		0		
460		2		0		
		2		0		
	10	2	DP-44 (11)	0		CLAY, BROWN, SILTY, ABUNDANT GRAVEL, SUBROUNDED, FINE TO MEDIUM GRAIN, SLIGHTLY MOIST
455		2		0		CLAY, BROWN, SILTY, OCCASIONAL GRAVEL, SUBROUNDED, FINE TO MEDIUM GRAIN, OCCASIONAL GRAVEL
		2		0		CLAY, GRAY/RED-BROWN, SILTY, FIRM, MOIST
	15	2		0		
450		2		0		
		2	DP-44 (18)	0		CLAY, RED-BROWN, SILTY, ABUNDANT GRAVEL, SUBROUNDED, FINE TO MEDIUM GRAIN, MOIST
	20	2		0		
		2	DP-44 (21.5)	0	GC	GRAVEL, BROWN, CLAYEY, SUBROUNDED, FINE TO COARSE GRAIN, VERY MOIST
445		2		0	CL	CLAY, RED-BROWN, SLIGHTLY SILTY, VERY FIRM, MOIST
						SHALE
	25					
440						

Water Level: ▼

Well Construction: Flush Mount

▼ Static ground water

APPENDIX B
MIP Logs



Direct Image® By Geoprobe Systems®

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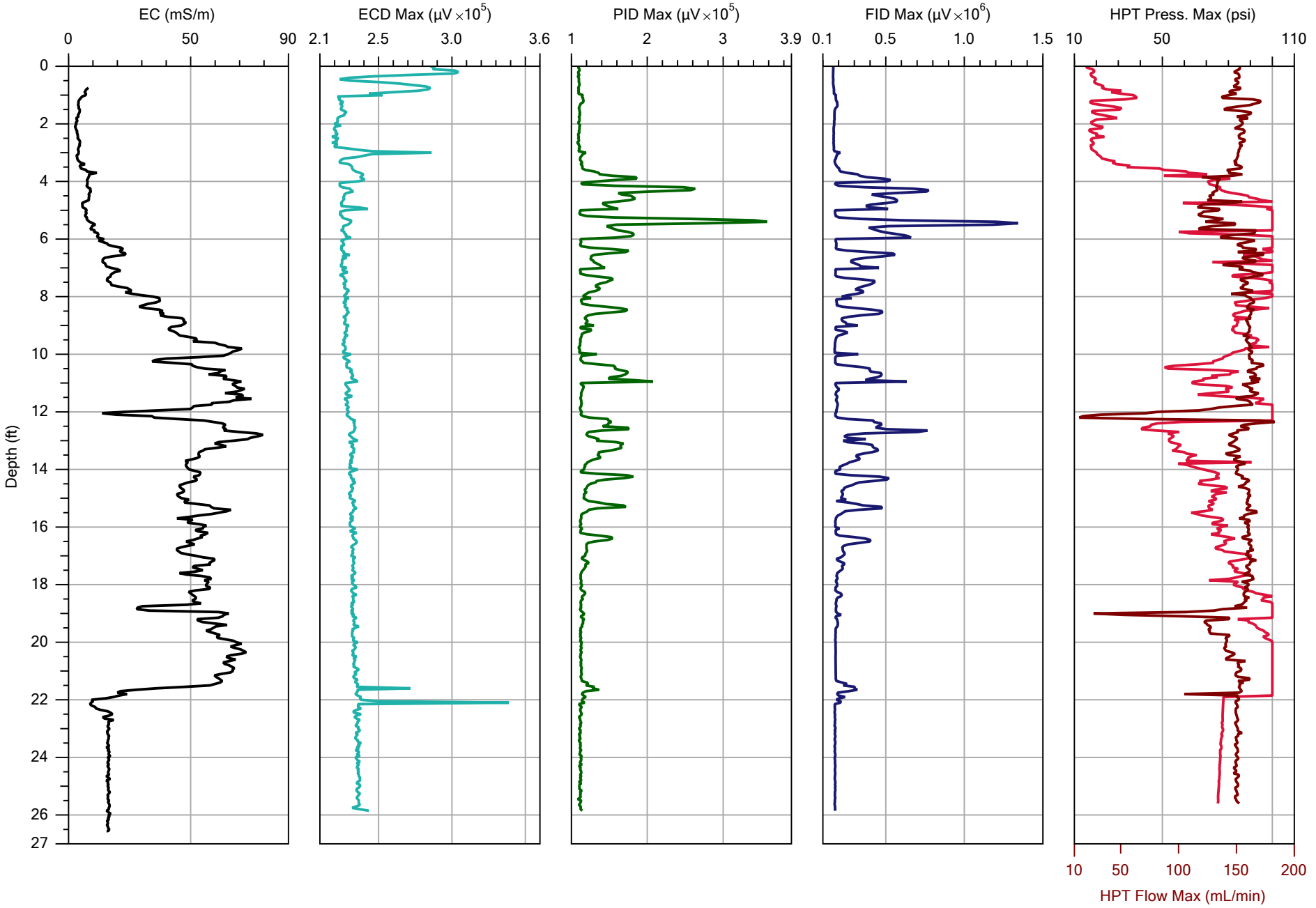
Company: Columbia Technologies	Operator: DJM	Date: 8/4/2014
Project ID: Fort Smith	Client: Environ	Location:



Direct Image® By Geoprobe Systems®

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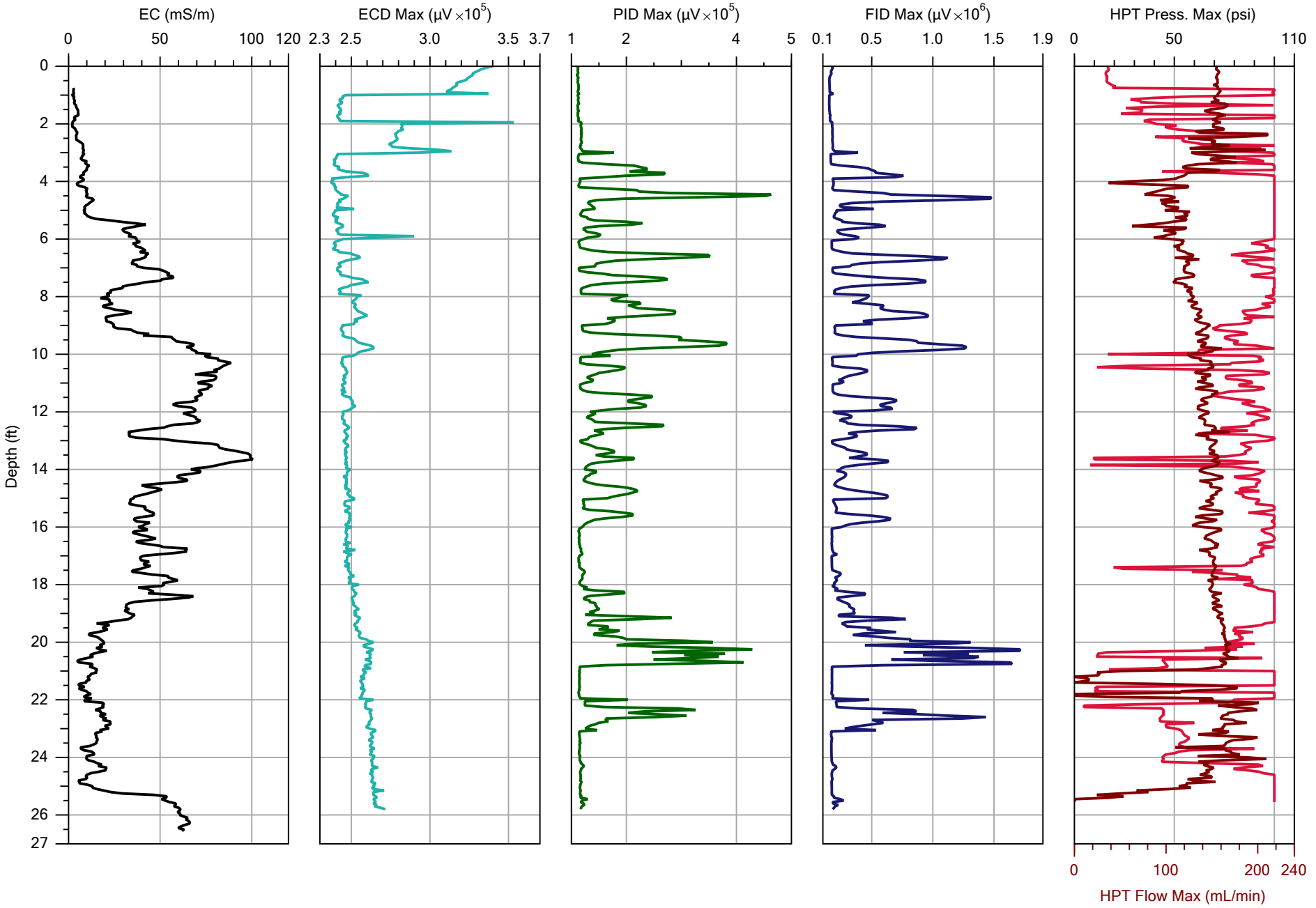
Project ID: Fort Smith	Client: Environ	Location:



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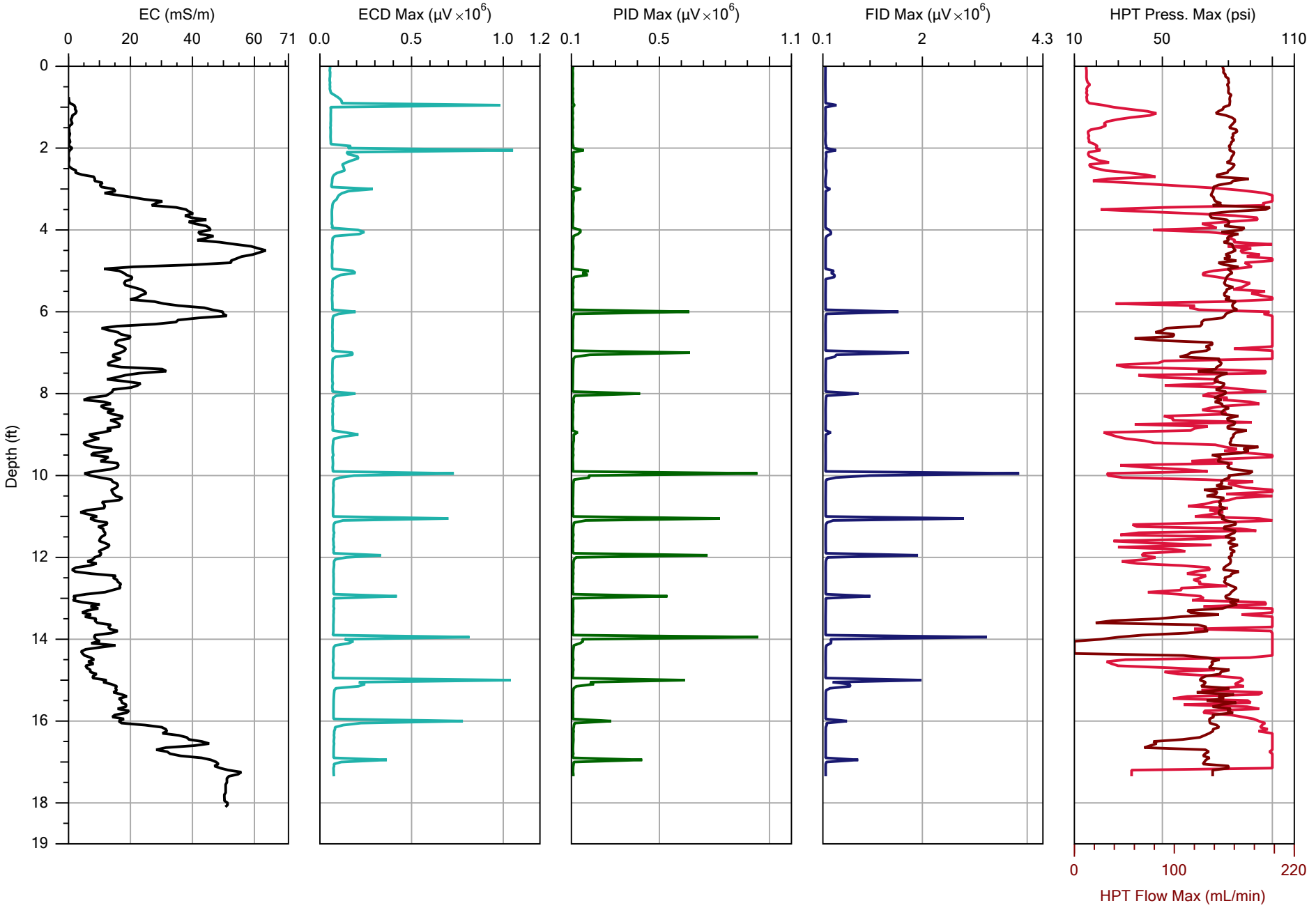
Project ID: Fort Smith	Client: Environ	Location:



Direct Image® By Geoprobe Systems®

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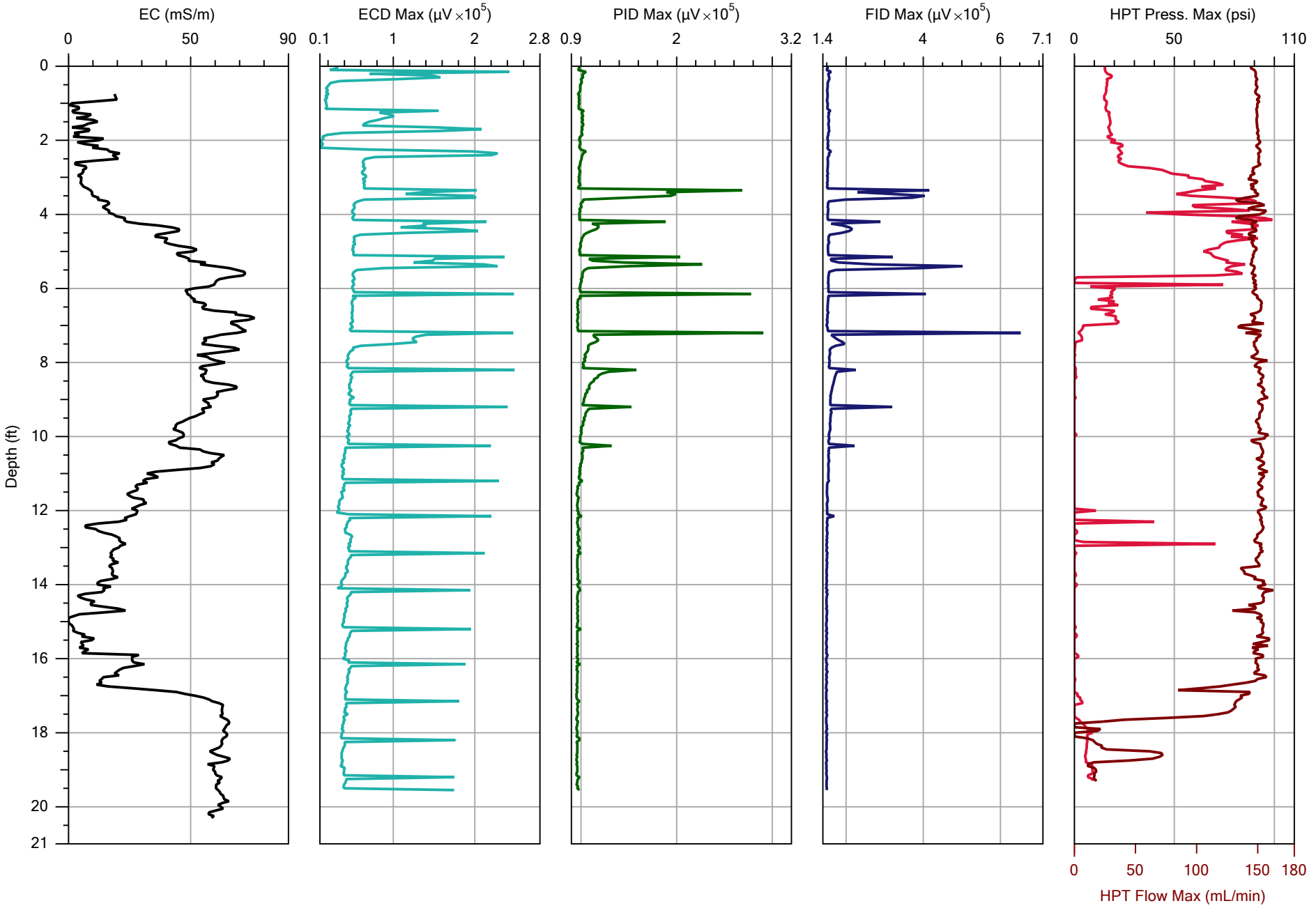
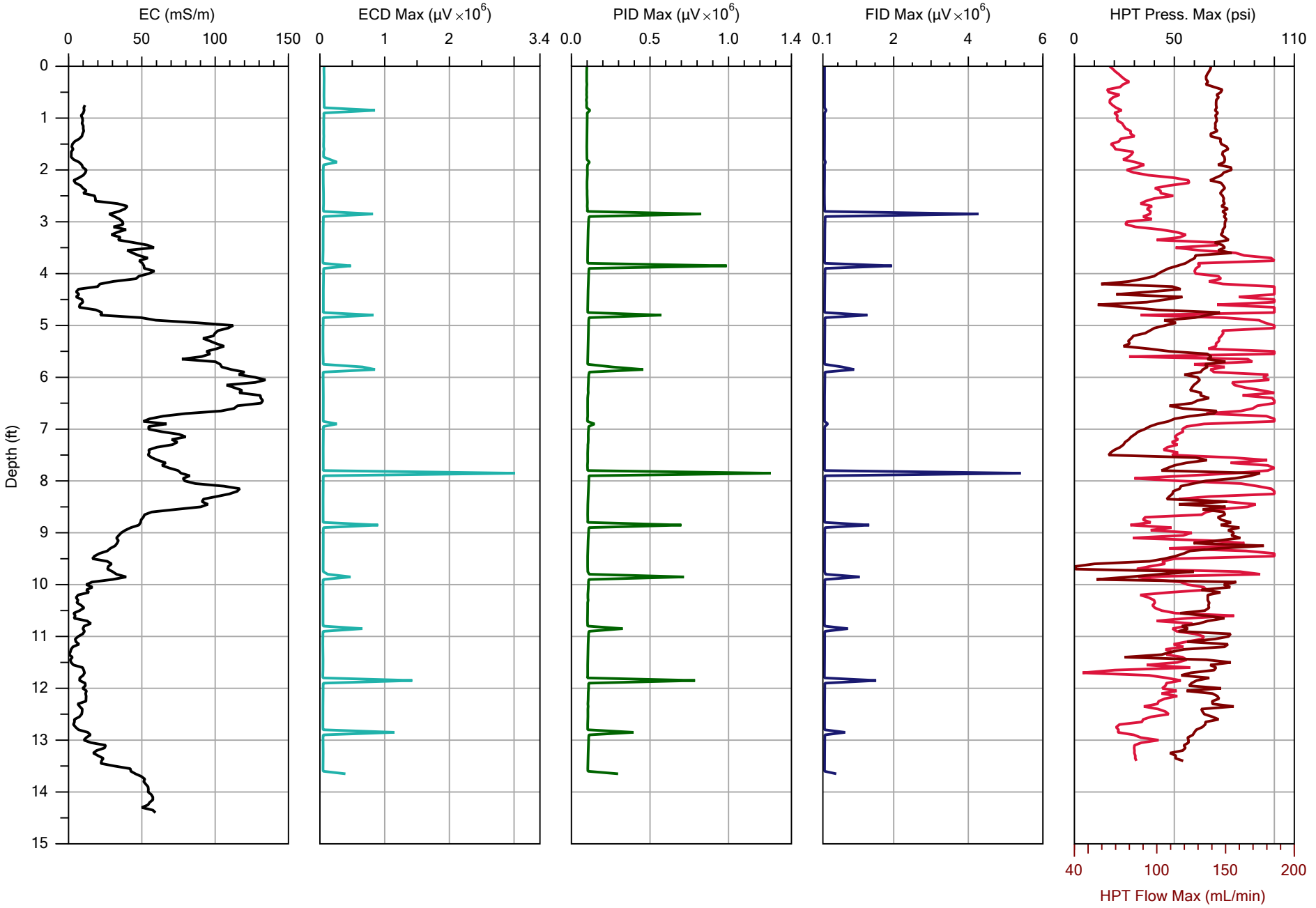
Company: Columbia Technologies	Operator: DJM	Date: 8/7/2014
Project ID: Fort Smith	Client: Environ	Location:



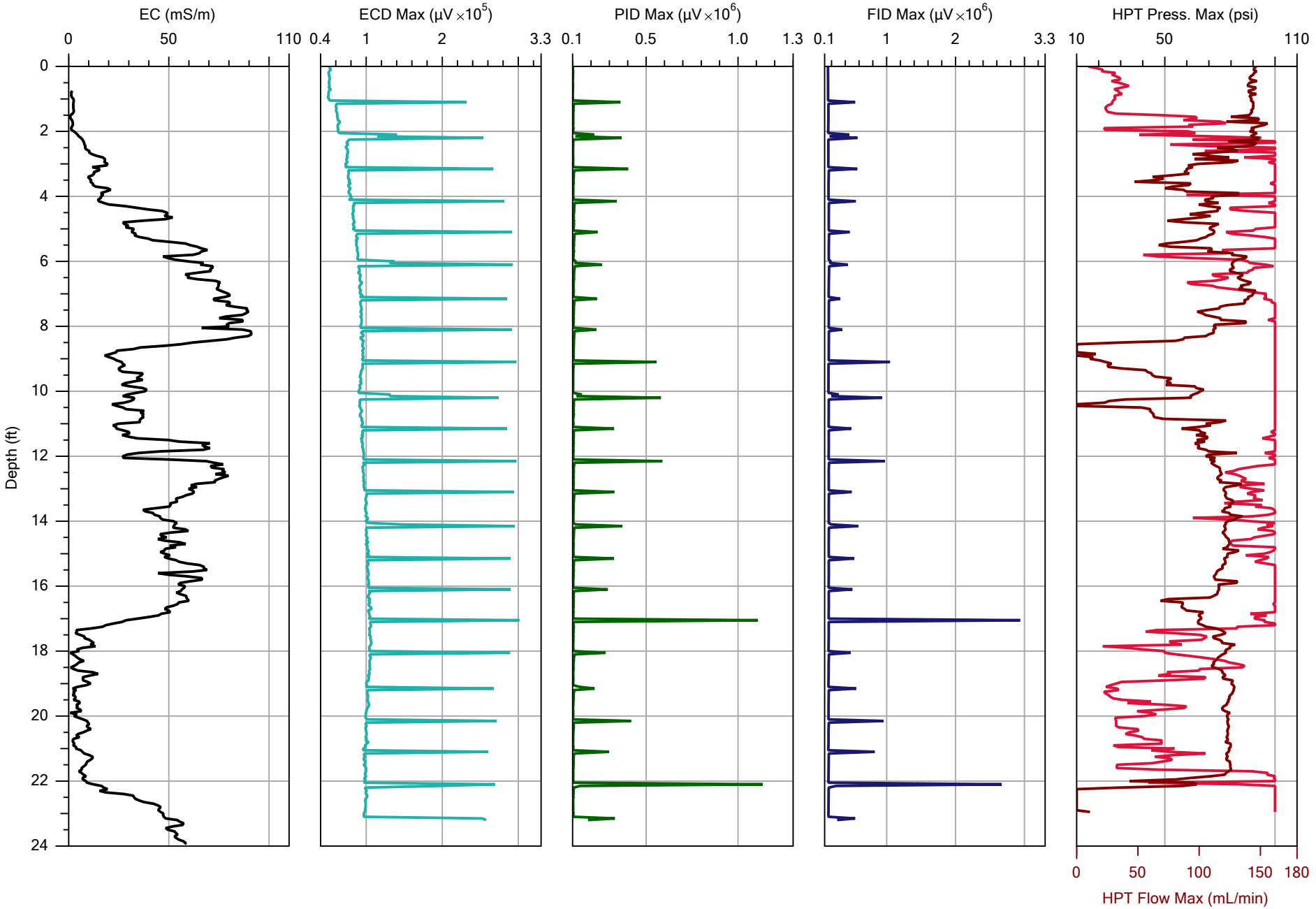
Direct Image® By Geoprobe Systems®

		File: M313.MHP
Company: Columbia Technologies	Operator: DJM	Date: 8/7/2014
Project ID: Fort Smith	Client: Environ	Location:



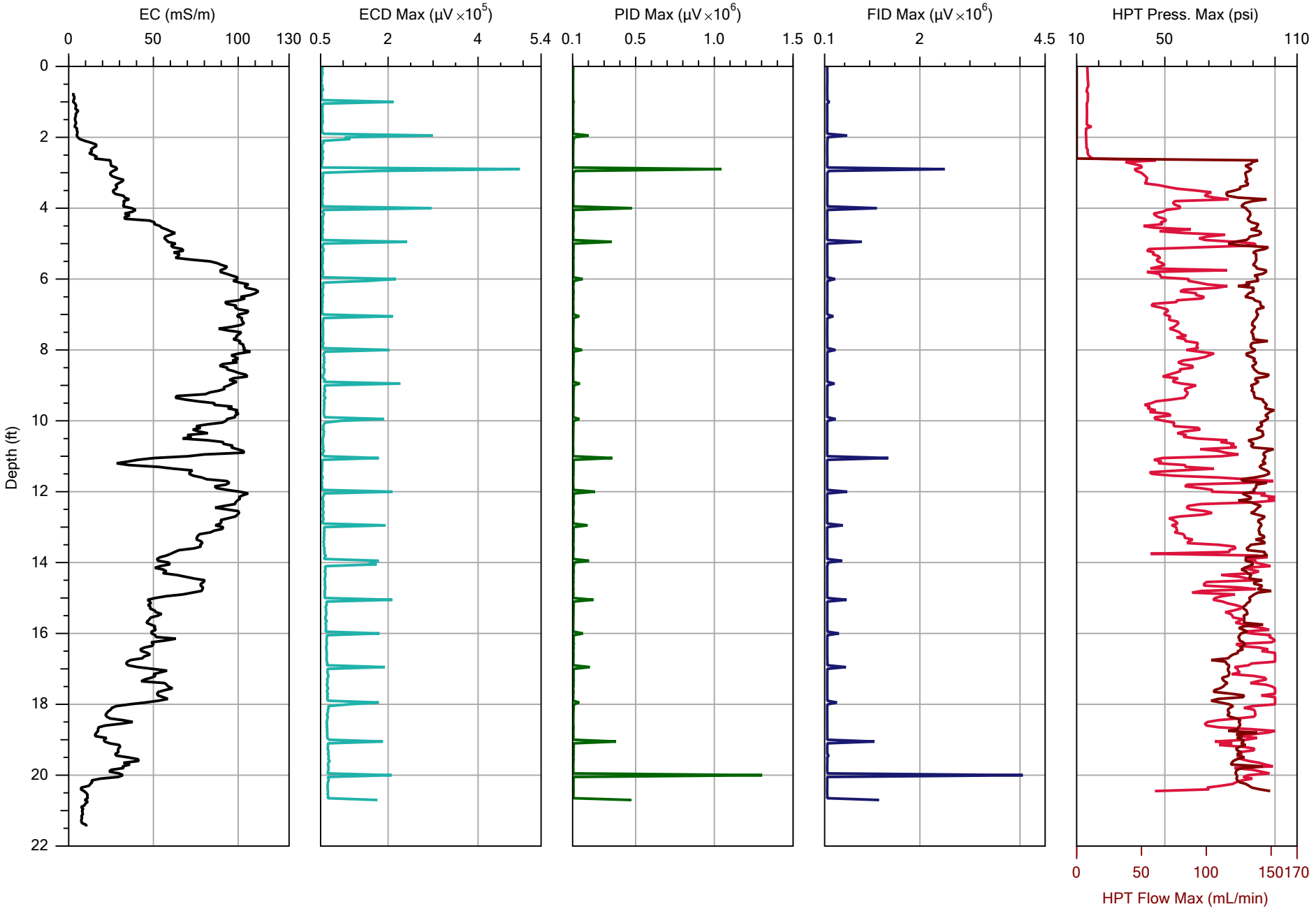
ENVIRON

		File: M314.MHP
Company: Columbia Technologies	Operator: DJM	Date: 8/8/2014
Project ID: Fort Smith	Client: Environ	Location:



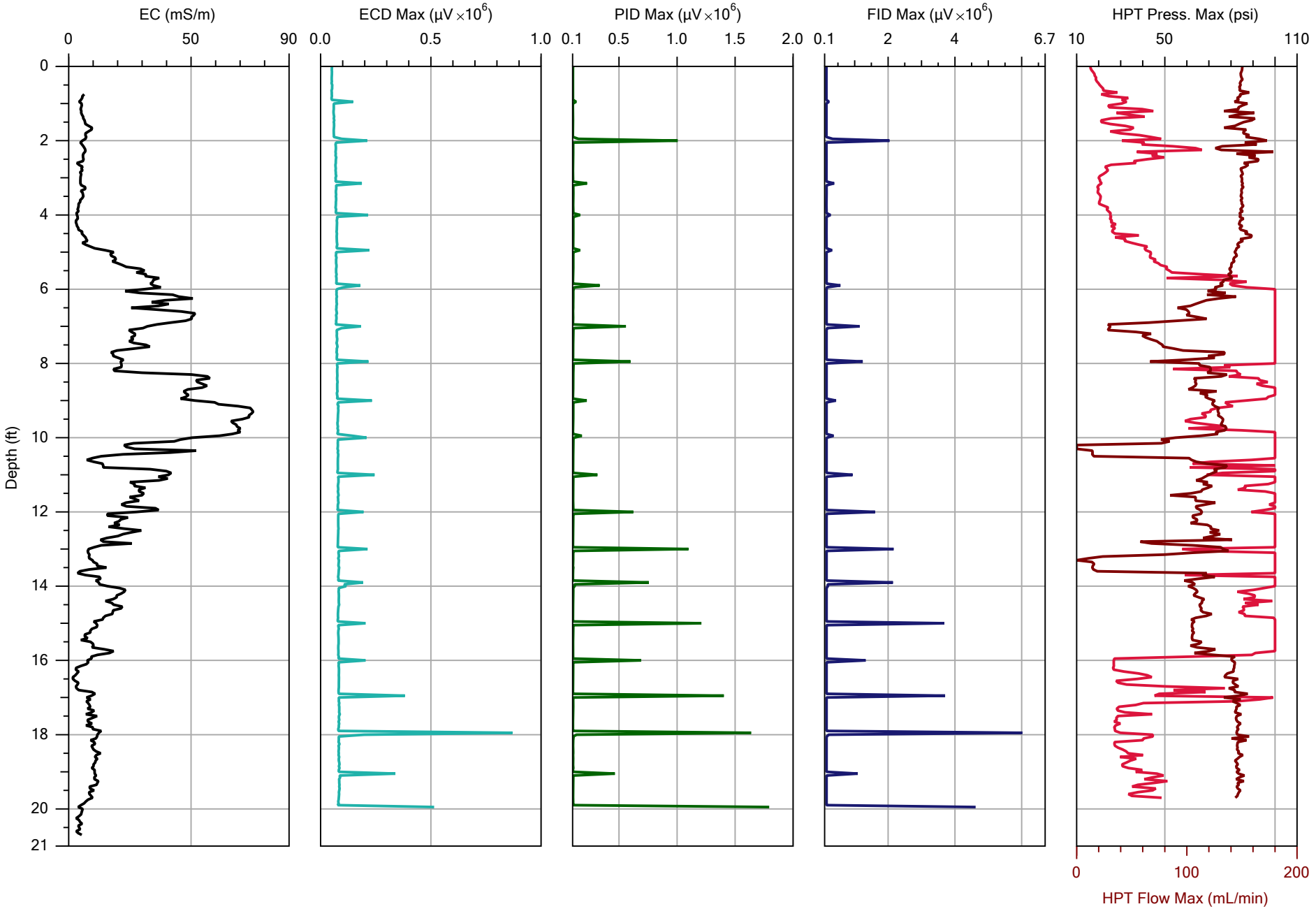
ENVIRON

		File: M315.MHP
Company: Columbia Technologies	Operator: DJM	Date: 8/8/2014
Project ID: Fort Smith	Client: Environ	Location:



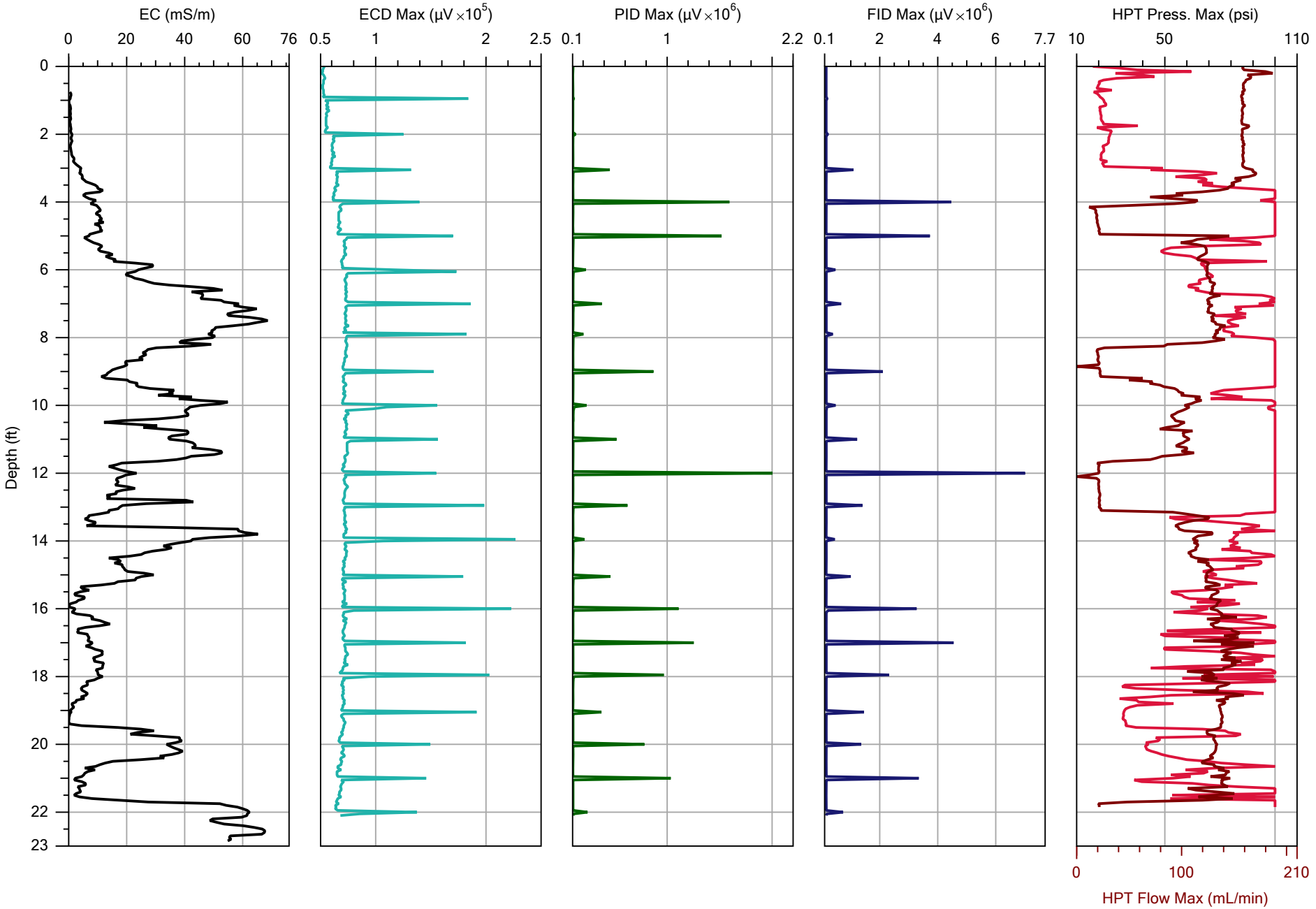
ENVIRON

		File: M316.MHP
Company: Columbia Technologies	Operator: DJM	Date:
Project ID: Fort Smith	Client: Environ	Location:



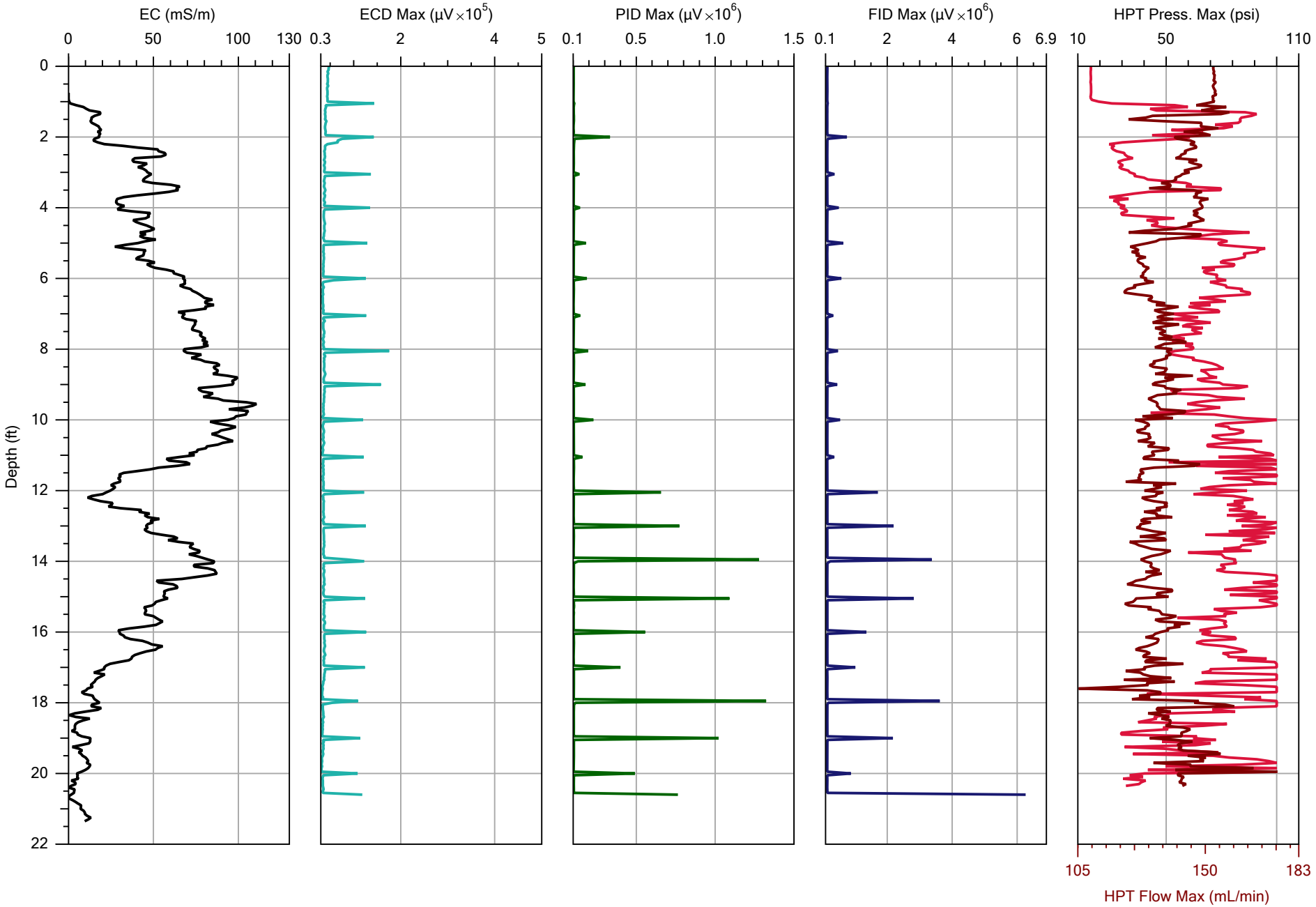
ENVIRON

		File: M317.MHP
Company: Columbia Technologies	Operator: DJM	Date: 8/11/2014
Project ID: Fort Smith	Client: Environ	Location:



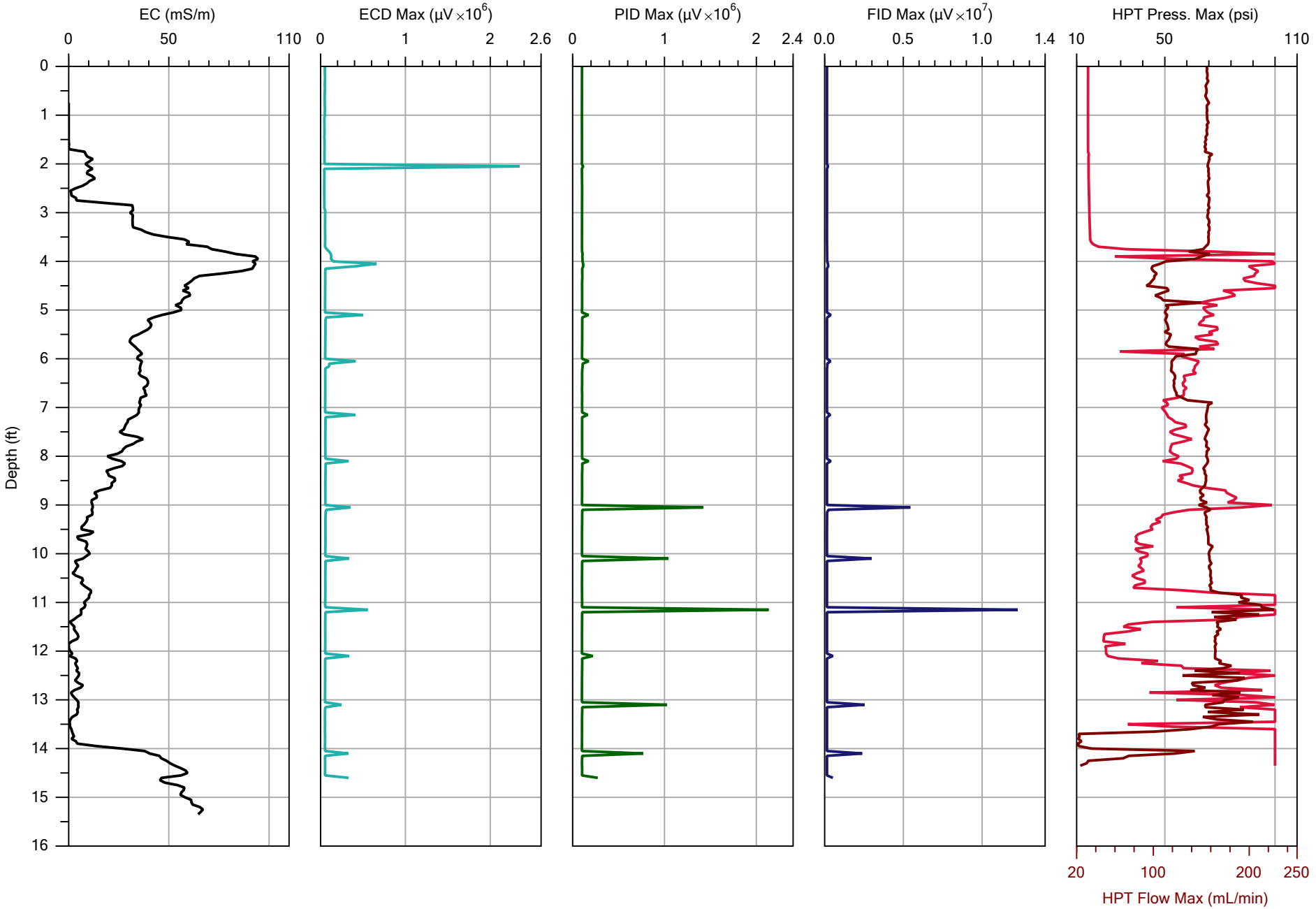
ENVIRON

		File: M318.MHP
Company: Columbia Technologies	Operator: DJM	Date: 8/11/2014
Project ID: Fort Smith	Client: Environ	Location:



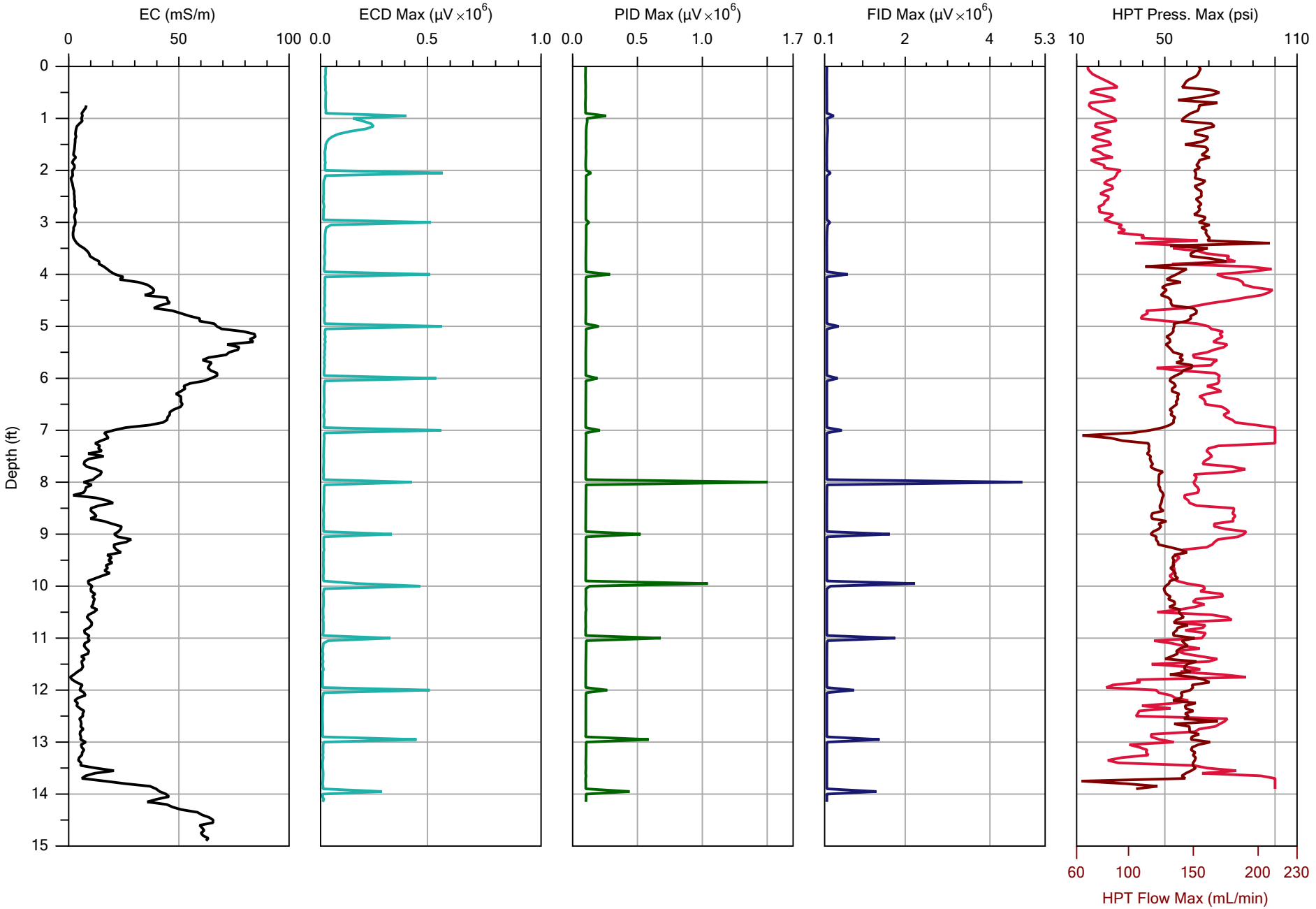
ENVIRON

		File: M319.MHP
Company: Columbia Technologies	Operator: DJM	Date: 8/12/2014
Project ID: Fort Smith	Client: Environ	Location:



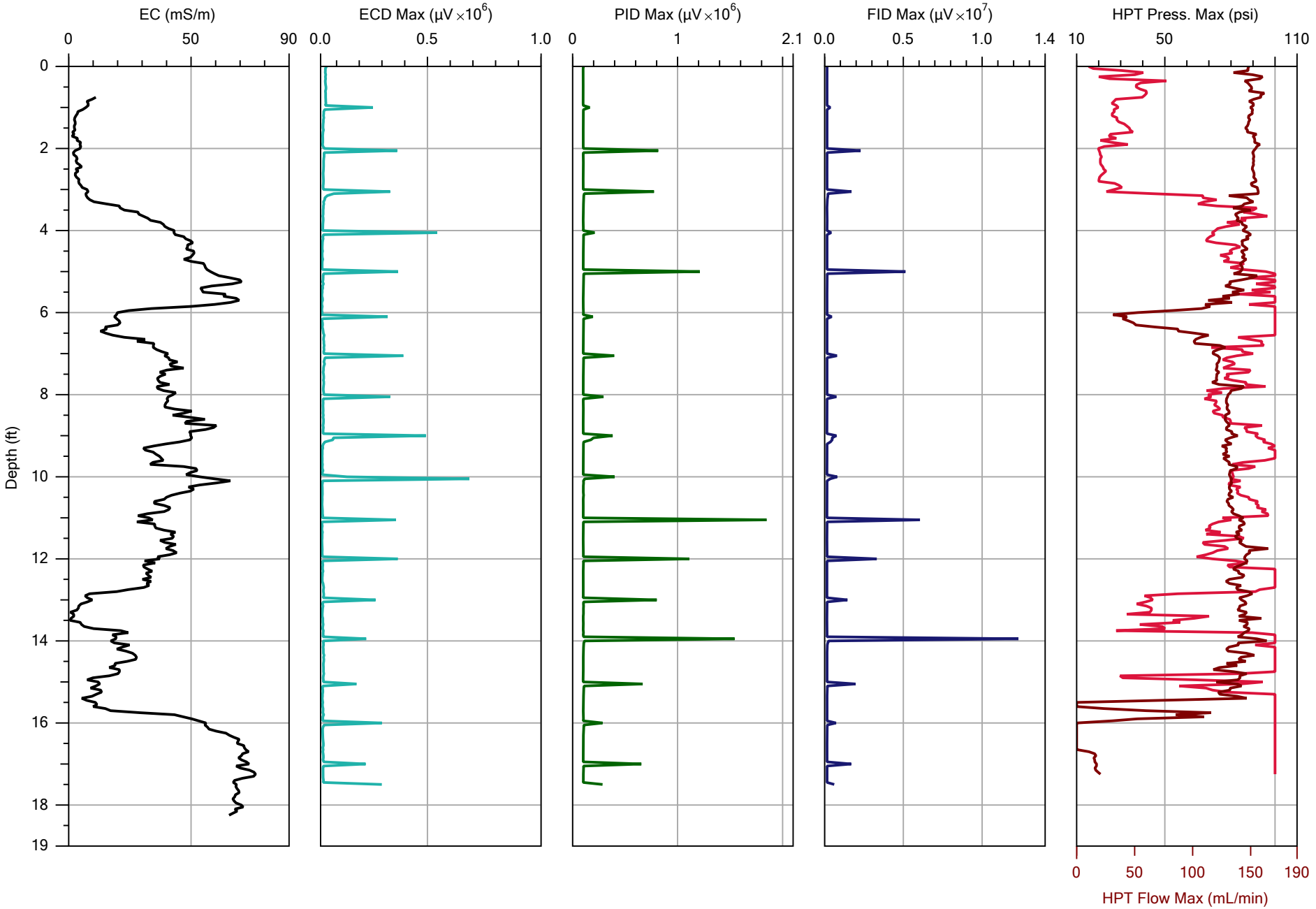
ENVIRON

		File: M326A.MHP
Company: Columbia Technologies	Operator: DJM	Date: 8/14/2014
Project ID: Fort Smith	Client: Environ	Location:



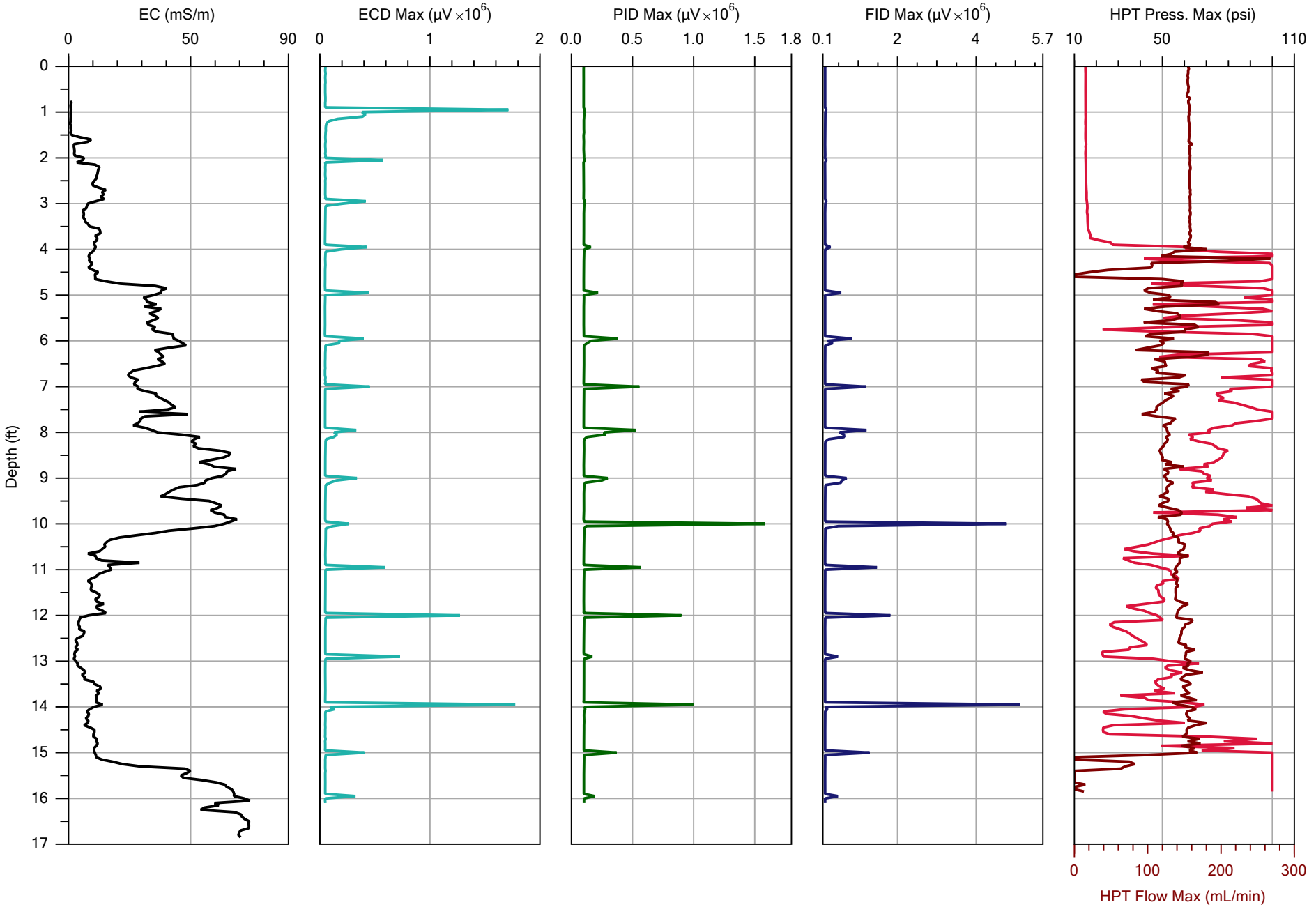
ENVIRON

		File: M327.MHP
Company: Columbia Technologies	Operator: DJM	Date: 8/14/2014
Project ID: Fort Smith	Client: Environ	Location:



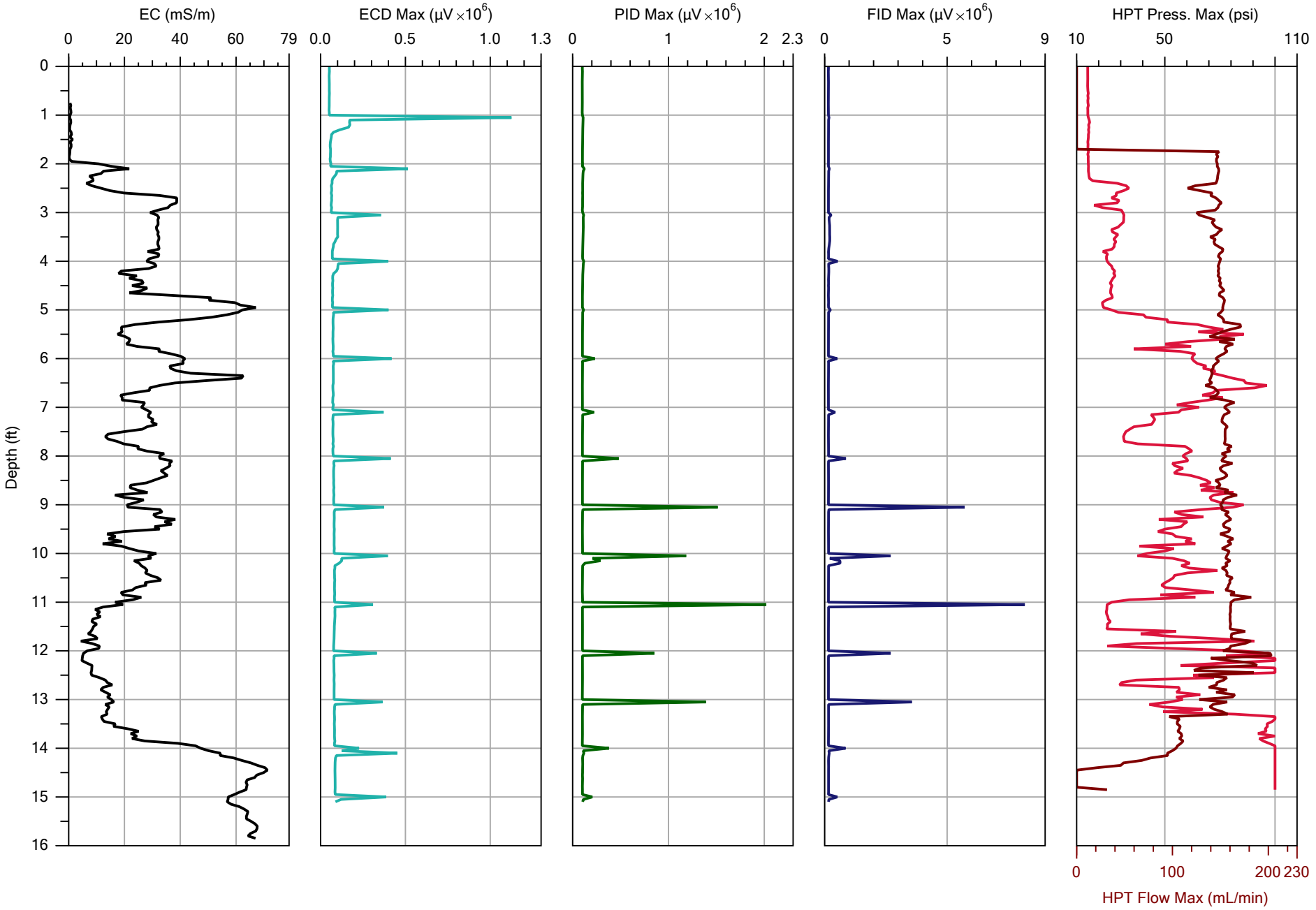
ENVIRON

		File: M328.MHP
Company: Columbia Technologies	Operator: DJM	Date: 8/14/2014
Project ID: Fort Smith	Client: Environ	Location:



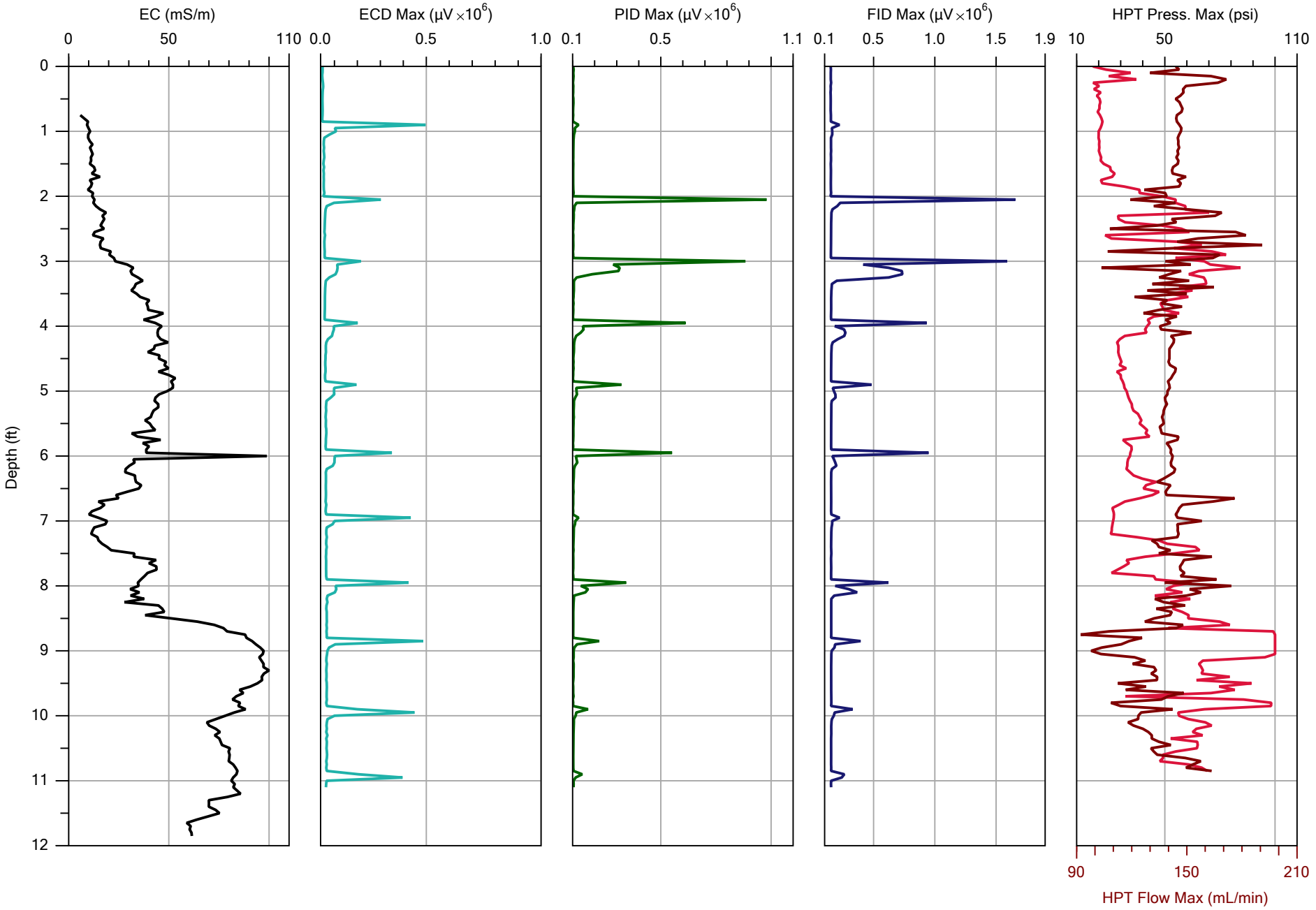
ENVIRON

		File: M331.MHP
Company: Columbia Technologies	Operator: DJM	Date: 8/18/2014
Project ID: Fort Smith	Client: Environ	Location:



ENVIRON

		File: M332.MHP
Company: Columbia Technologies	Operator: DJM	Date: 8/18/2014
Project ID: Fort Smith	Client: Environ	Location:



ENVIRON

		File: M333.MHP
Company: Columbia Technologies	Operator: DJM	Date: 8/18/2014
Project ID: Fort Smith	Client: Environ	Location:

APPENDIX C
Laboratory Reports

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

July 15, 2014

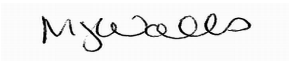
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60172176

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on June 24, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: EDD, Environ_AR
Tamara Gleason, ENVIRON International Corporation

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60172176

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60172176

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172176001	**MW-90 (14.5 FT) - 062014**	Solid	06/23/14 11:20	06/24/14 01:48
60172176002	**MW-90 (20.5 FT) - 062014**	Solid	06/23/14 11:45	06/24/14 01:48
60172176003	**MW-88 (12.0 FT) - 062014**	Solid	06/23/14 08:50	06/24/14 01:48
60172176004	**MW-89 (17.5 FT) - 062014**	Solid	06/23/14 14:00	06/24/14 01:48
60172176005	**TRIP BLANK 01 - 062014**	Solid	06/23/14 08:50	06/24/14 01:48

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60172176

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172176001	**MW-90 (14.5 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172176002	**MW-90 (20.5 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172176003	**MW-88 (12.0 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172176004	**MW-89 (17.5 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172176005	**TRIP BLANK 01 - 062014**	EPA 8260	JKL	37

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60172176

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: July 15, 2014

General Information:
5 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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/62527

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.: 60172176

Sample: MW-90 (14.5 FT) - 062014 **Lab ID: 60172176001** Collected: 06/23/14 11:20 Received: 06/24/14 01:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	20.3	10.2	1		06/24/14 19:09	67-64-1	
Benzene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	71-43-2	
Bromodichloromethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	75-27-4	
Bromoform	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	75-25-2	
Bromomethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.2	5.1	1		06/24/14 19:09	78-93-3	
Carbon disulfide	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	56-23-5	
Chlorobenzene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	108-90-7	
Chloroethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	75-00-3	
Chloroform	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	67-66-3	
Chloromethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	74-87-3	
Dibromochloromethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	10061-02-6	
Ethylbenzene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	100-41-4	
2-Hexanone	ND	ug/kg	20.3	10.2	1		06/24/14 19:09	591-78-6	
Methylene chloride	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.2	5.1	1		06/24/14 19:09	108-10-1	
Styrene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	79-34-5	
Tetrachloroethene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	127-18-4	
Toluene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	79-00-5	
Trichloroethene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	79-01-6	
Vinyl chloride	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	75-01-4	
Xylene (Total)	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	1330-20-7	
Surrogates									
Toluene-d8 (S)	98	%	80-120		1		06/24/14 19:09	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		06/24/14 19:09	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-129		1		06/24/14 19:09	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**10**	%	0.50	0.50	1		06/25/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172176

Sample: MW-90 (20.5 FT) - 062014 **Lab ID: 60172176002** Collected: 06/23/14 11:45 Received: 06/24/14 01:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	20.1	10.0	1		06/24/14 19:24	67-64-1	
Benzene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	71-43-2	
Bromodichloromethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	75-27-4	
Bromoform	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	75-25-2	
Bromomethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.0	5.0	1		06/24/14 19:24	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	75-00-3	
Chloroform	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	67-66-3	
Chloromethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	74-87-3	
Dibromochloromethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	100-41-4	
2-Hexanone	ND	ug/kg	20.1	10.0	1		06/24/14 19:24	591-78-6	
Methylene chloride	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	5.0	1		06/24/14 19:24	108-10-1	
Styrene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	127-18-4	
Toluene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	79-00-5	
Trichloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	79-01-6	
Vinyl chloride	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	1330-20-7	
Surrogates									
Toluene-d8 (S)	99	%	80-120		1		06/24/14 19:24	2037-26-5	
4-Bromofluorobenzene (S)	99	%	76-123		1		06/24/14 19:24	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-129		1		06/24/14 19:24	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**10.4**	%	0.50	0.50	1		06/25/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172176

Sample: MW-88 (12.0 FT) - 062014 **Lab ID: 60172176003** Collected: 06/23/14 08:50 Received: 06/24/14 01:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	17.6	8.8	1		06/24/14 19:40	67-64-1	
Benzene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	71-43-2	
Bromodichloromethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	75-27-4	
Bromoform	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	75-25-2	
Bromomethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.8	4.4	1		06/24/14 19:40	78-93-3	
Carbon disulfide	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	108-90-7	
Chloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	75-00-3	
Chloroform	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	67-66-3	
Chloromethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	74-87-3	
Dibromochloromethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	100-41-4	
2-Hexanone	ND	ug/kg	17.6	8.8	1		06/24/14 19:40	591-78-6	
Methylene chloride	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.8	4.4	1		06/24/14 19:40	108-10-1	
Styrene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	127-18-4	
Toluene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	79-00-5	
Trichloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	79-01-6	
Vinyl chloride	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	75-01-4	
Xylene (Total)	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	1330-20-7	
Surrogates									
Toluene-d8 (S)	97	%	80-120		1		06/24/14 19:40	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		06/24/14 19:40	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-129		1		06/24/14 19:40	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**15.2**	%	0.50	0.50	1		06/25/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172176

Sample: MW-89 (17.5 FT) - 062014 **Lab ID: 60172176004** Collected: 06/23/14 14:00 Received: 06/24/14 01:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	17.6	8.8	1		06/24/14 19:55	67-64-1	
Benzene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	71-43-2	
Bromodichloromethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	75-27-4	
Bromoform	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	75-25-2	
Bromomethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.8	4.4	1		06/24/14 19:55	78-93-3	
Carbon disulfide	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	108-90-7	
Chloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	75-00-3	
Chloroform	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	67-66-3	
Chloromethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	74-87-3	
Dibromochloromethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	100-41-4	
2-Hexanone	ND	ug/kg	17.6	8.8	1		06/24/14 19:55	591-78-6	
Methylene chloride	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.8	4.4	1		06/24/14 19:55	108-10-1	
Styrene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	127-18-4	
Toluene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	79-00-5	
Trichloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	79-01-6	
Vinyl chloride	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	75-01-4	
Xylene (Total)	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	1330-20-7	
Surrogates									
Toluene-d8 (S)	98	%	80-120		1		06/24/14 19:55	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		06/24/14 19:55	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	75-129		1		06/24/14 19:55	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**11.7**	%	0.50	0.50	1		06/25/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172176

Sample: TRIP BLANK 01 - 062014 **Lab ID: 60172176005** Collected: 06/23/14 08:50 Received: 06/24/14 01:48 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	20.0	10.0	1		06/24/14 20:10	67-64-1	
Benzene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	71-43-2	
Bromodichloromethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	75-27-4	
Bromoform	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	75-25-2	
Bromomethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.0	5.0	1		06/24/14 20:10	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	75-00-3	
Chloroform	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	67-66-3	
Chloromethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	74-87-3	
Dibromochloromethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	100-41-4	
2-Hexanone	ND	ug/kg	20.0	10.0	1		06/24/14 20:10	591-78-6	
Methylene chloride	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	5.0	1		06/24/14 20:10	108-10-1	
Styrene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	127-18-4	
Toluene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	79-00-5	
Trichloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	79-01-6	
Vinyl chloride	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	1330-20-7	
Surrogates									
Toluene-d8 (S)	97	%	80-120		1		06/24/14 20:10	2037-26-5	
4-Bromofluorobenzene (S)	98	%	76-123		1		06/24/14 20:10	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	75-129		1		06/24/14 20:10	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172176

QC Batch: MSV/62527 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60172176001, 60172176002, 60172176003, 60172176004, 60172176005

METHOD BLANK: 1400132 Matrix: Solid
Associated Lab Samples: 60172176001, 60172176002, 60172176003, 60172176004, 60172176005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	06/24/14 17:37	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	06/24/14 17:37	
1,1,2-Trichloroethane	ug/kg	ND	5.0	06/24/14 17:37	
1,1-Dichloroethane	ug/kg	ND	5.0	06/24/14 17:37	
1,1-Dichloroethene	ug/kg	ND	5.0	06/24/14 17:37	
1,2-Dichloroethane	ug/kg	ND	5.0	06/24/14 17:37	
1,2-Dichloropropane	ug/kg	ND	5.0	06/24/14 17:37	
2-Butanone (MEK)	ug/kg	ND	10.0	06/24/14 17:37	
2-Hexanone	ug/kg	ND	20.0	06/24/14 17:37	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	06/24/14 17:37	
Acetone	ug/kg	ND	20.0	06/24/14 17:37	
Benzene	ug/kg	ND	5.0	06/24/14 17:37	
Bromodichloromethane	ug/kg	ND	5.0	06/24/14 17:37	
Bromoform	ug/kg	ND	5.0	06/24/14 17:37	
Bromomethane	ug/kg	ND	5.0	06/24/14 17:37	
Carbon disulfide	ug/kg	ND	5.0	06/24/14 17:37	
Carbon tetrachloride	ug/kg	ND	5.0	06/24/14 17:37	
Chlorobenzene	ug/kg	ND	5.0	06/24/14 17:37	
Chloroethane	ug/kg	ND	5.0	06/24/14 17:37	
Chloroform	ug/kg	ND	5.0	06/24/14 17:37	
Chloromethane	ug/kg	ND	5.0	06/24/14 17:37	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/24/14 17:37	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	06/24/14 17:37	
Dibromochloromethane	ug/kg	ND	5.0	06/24/14 17:37	
Ethylbenzene	ug/kg	ND	5.0	06/24/14 17:37	
Methylene chloride	ug/kg	ND	5.0	06/24/14 17:37	
Styrene	ug/kg	ND	5.0	06/24/14 17:37	
Tetrachloroethene	ug/kg	ND	5.0	06/24/14 17:37	
Toluene	ug/kg	ND	5.0	06/24/14 17:37	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	06/24/14 17:37	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	06/24/14 17:37	
Trichloroethene	ug/kg	ND	5.0	06/24/14 17:37	
Vinyl chloride	ug/kg	ND	5.0	06/24/14 17:37	
Xylene (Total)	ug/kg	ND	5.0	06/24/14 17:37	
1,2-Dichloroethane-d4 (S)	%	93	75-129	06/24/14 17:37	
4-Bromofluorobenzene (S)	%	97	76-123	06/24/14 17:37	
Toluene-d8 (S)	%	97	80-120	06/24/14 17:37	

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172176

LABORATORY CONTROL SAMPLE: 1400133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	97.6	98	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	93.3	93	73-120	
1,1,2-Trichloroethane	ug/kg	100	92.9	93	76-120	
1,1-Dichloroethane	ug/kg	100	92.9	93	71-120	
1,1-Dichloroethene	ug/kg	100	94.6	95	76-130	
1,2-Dichloroethane	ug/kg	100	94.1	94	78-120	
1,2-Dichloropropane	ug/kg	100	91.8	92	80-120	
2-Butanone (MEK)	ug/kg	500	445	89	55-135	
2-Hexanone	ug/kg	500	473	95	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	450	90	71-128	
Acetone	ug/kg	500	515	103	43-144	
Benzene	ug/kg	100	89.3	89	80-120	
Bromodichloromethane	ug/kg	100	94.1	94	80-120	
Bromoform	ug/kg	100	102	102	75-124	
Bromomethane	ug/kg	100	136	136	38-150	
Carbon disulfide	ug/kg	100	112	112	58-137	
Carbon tetrachloride	ug/kg	100	97.6	98	75-140	
Chlorobenzene	ug/kg	100	97.4	97	80-120	
Chloroethane	ug/kg	100	100	100	65-127	
Chloroform	ug/kg	100	92.2	92	74-120	
Chloromethane	ug/kg	100	115	115	39-138	
cis-1,2-Dichloroethene	ug/kg	100	95.2	95	76-124	
cis-1,3-Dichloropropene	ug/kg	100	90.5	90	82-120	
Dibromochloromethane	ug/kg	100	102	102	80-124	
Ethylbenzene	ug/kg	100	99.4	99	80-120	
Methylene chloride	ug/kg	100	111	111	70-123	
Styrene	ug/kg	100	97.0	97	79-120	
Tetrachloroethene	ug/kg	100	99.6	100	78-128	
Toluene	ug/kg	100	92.7	93	79-120	
trans-1,2-Dichloroethene	ug/kg	100	92.2	92	76-124	
trans-1,3-Dichloropropene	ug/kg	100	97.4	97	80-124	
Trichloroethene	ug/kg	100	90.5	90	80-120	
Vinyl chloride	ug/kg	100	104	104	57-132	
Xylene (Total)	ug/kg	300	289	96	79-120	
1,2-Dichloroethane-d4 (S)	%			97	75-129	
4-Bromofluorobenzene (S)	%			101	76-123	
Toluene-d8 (S)	%			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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172176

QC Batch: PMST/9762 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60172176001, 60172176002, 60172176003, 60172176004

METHOD BLANK: 1400483 Matrix: Solid
Associated Lab Samples: 60172176001, 60172176002, 60172176003, 60172176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	06/25/14 00:00	

SAMPLE DUPLICATE: 1400484

Parameter	Units	60171944001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.6	23.0	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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60172176

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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BATCH QUALIFIERS

Batch: MSV/62527

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60172176

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172176001	**MW-90 (14.5 FT) - 062014**	EPA 8260	MSV/62527		
60172176002	**MW-90 (20.5 FT) - 062014**	EPA 8260	MSV/62527		
60172176003	**MW-88 (12.0 FT) - 062014**	EPA 8260	MSV/62527		
60172176004	**MW-89 (17.5 FT) - 062014**	EPA 8260	MSV/62527		
60172176005	**TRIP BLANK 01 - 062014**	EPA 8260	MSV/62527		
60172176001	**MW-90 (14.5 FT) - 062014**	ASTM D2974	PMST/9762		
60172176002	**MW-90 (20.5 FT) - 062014**	ASTM D2974	PMST/9762		
60172176003	**MW-88 (12.0 FT) - 062014**	ASTM D2974	PMST/9762		
60172176004	**MW-89 (17.5 FT) - 062014**	ASTM D2974	PMST/9762		

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Sample Condition Upon Receipt

WO#:60172176

60172176

Optional
Proj Due Date:
Proj Name:

Client Name: Environ

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ VIA

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 ☑ ZPLC

Thermometer Used: T-239 (circled) / T-194 **Type of Ice:** Wet (circled) Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 2.4

Temperature should be above freezing to 6°C

Date and initials of person examining contents: MV

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. Kits
Rush Turn Around Time requested:	☑Yes	☐No	☐N/A	7. 1Day
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~~ SL pv 6/24/14				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, TOC, O&G, WI-DRO (water), Phenolics	☑Yes	☐No		Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes	☐No	☐N/A	
Pace Trip Blank lot # (if purchased): 111813-3				15.
Headspace in VOA vials (>6mm):	☐Yes	☐No	☑N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☑No	☐N/A	17. List State: AR

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: ______ Date/Time: ______

Comments/ Resolution: Held per Tamara Gleason pending rush water results mw 6/24/14

Project Manager Review: MW Date: 6/24/14

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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 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:	3433233A

Section C — Invoice Information:

Attention:	Tamara Gleason
Company Name:	ENVIRON
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJ Walls
Pace Profile #:	7444, line 1

REGULATORY AGENCY

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

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

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

Requested Analysis Filtered (Y/N)

Pace Project No./Lab I.D.: 60172176

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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 client specific list	Requested Analysis (other columns)	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
1	MW-90 (14.5 FT)-062014	SL	G			6/23/14	1120		5	X						X	X		X	1D9M 1D69B		2V/G9U 1BP8U 01
2	MW-90 (20.5 FT)-062014	↓	↓			↓	1145		↓	↓						↓	↓		↓	↓		↓ 02
3	MW-88 (12.0 FT)-062014	↓	↓			↓	0850		↓	↓						↓	↓		↓	↓		↓ 03
4	MW-89 (17.5 FT)-062014	↓	↓			↓	1400		↓	↓						↓	↓		↓	↓		↓ 04
5	Trip Blank 01-062014								2	↓			2V/G9U						↓	RV 6/24/14		RV 6/24/14 05
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1-Day TAT	[signature] / ENVIRON	6/23/14	1900	[signature] PASI	6/24	0148	2-4	Y	Y	Y

SAMPLE CONDITIONS

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/23/14

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

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

July 17, 2014

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

RE: Project: FORT SMITH, AR
Pace Project No.: 60172280

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on June 25, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Amended report revised to correct for reporting TCE sample 60172280010.

Amended report, REV-2 on 7/16/14, to add additional sample testing per the clients requet.

Amended report, REV-3 on 7/17/14, to add additional sample testing per the clients requets.

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

Sincerely,

Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: EDD, Environ_AR
Tamara Gleason, ENVIRON International Corporation

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60172280

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60172280

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172280001	**MW-87 (4.5 FT) - 062014**	Solid	06/24/14 07:40	06/25/14 08:15
60172280002	**MW-87 (15.0 FT) - 062014**	Solid	06/24/14 07:55	06/25/14 08:15
60172280003	**MW-91 (12.5 FT) - 062014**	Solid	06/24/14 09:56	06/25/14 08:15
60172280004	**DP-23 (4.5 FT) - 062014**	Solid	06/24/14 13:20	06/25/14 08:15
60172280005	**DP-23 (10.0 FT) - 062014**	Solid	06/24/14 13:35	06/25/14 08:15
60172280006	**DP-23 (15.0 FT) - 062014**	Solid	06/24/14 13:40	06/25/14 08:15
60172280007	**DP-23 (17.5 FT) - 062014**	Solid	06/24/14 13:55	06/25/14 08:15
60172280008	**DP-23 (20.5 FT) - 062014**	Solid	06/24/14 14:10	06/25/14 08:15
60172280009	**DP-28 (4.5 FT) - 062014**	Solid	06/24/14 14:50	06/25/14 08:15
60172280010	**DP-28 (7.5 FT) - 062014**	Solid	06/24/14 15:00	06/25/14 08:15
60172280011	**DP-28 (12.0 FT) - 062014**	Solid	06/24/14 15:10	06/25/14 08:15
60172280012	**DP-28 (17.0 FT) - 062014**	Solid	06/24/14 15:20	06/25/14 08:15
60172280013	**DP-28 (20.5 FT) - 062015**	Solid	06/24/14 15:40	06/25/14 08:15
60172280014	**DP-28 (26.5 FT) - 062014**	Solid	06/24/14 15:50	06/25/14 08:15
60172280015	**TRIP BLANK 02 - 062014**	Solid	06/24/14 07:40	06/25/14 08:15

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60172280

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172280001	**MW-87 (4.5 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280002	**MW-87 (15.0 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280003	**MW-91 (12.5 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280004	**DP-23 (4.5 FT) - 062014**	EPA 8260	JKL	37
60172280005	**DP-23 (10.0 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280006	**DP-23 (15.0 FT) - 062014**	EPA 8260	JKL	37
60172280008	**DP-23 (20.5 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280009	**DP-28 (4.5 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280010	**DP-28 (7.5 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280011	**DP-28 (12.0 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280012	**DP-28 (17.0 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280013	**DP-28 (20.5 FT) - 062015**	EPA 8260	JKL	37
		ASTM D2974	DWC	1

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60172280

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: July 17, 2014

General Information:
12 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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-87 (15.0 FT) - 062014 (Lab ID: 60172280002)
- MW-87 (4.5 FT) - 062014 (Lab ID: 60172280001)
- MW-91 (12.5 FT) - 062014 (Lab ID: 60172280003)

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/62575

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/62603

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/62998

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Sample Comments:

Analyzed outside of holding time per the clients request.
- MW-87 (4.5 FT) - 062014 (Lab ID: 60172280001)

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60172280

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: July 17, 2014

Sample Comments:

Analyzed outside of holding time per the clients request.
- MW-87 (15.0 FT) - 062014 (Lab ID: 60172280002)

Analysis performed outside of holding time per the clients request.
- DP-23 (4.5 FT) - 062014 (Lab ID: 60172280004)
- DP-23 (15.0 FT) - 062014 (Lab ID: 60172280006)
- DP-28 (4.5 FT) - 062014 (Lab ID: 60172280009)
- DP-28 (12.0 FT) - 062014 (Lab ID: 60172280011)
- DP-28 (17.0 FT) - 062014 (Lab ID: 60172280012)

Analyte Comments:

QC Batch: MSV/62575

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- DP-23 (10.0 FT) - 062014 (Lab ID: 60172280005)
  - Vinyl chloride
- DP-28 (7.5 FT) - 062014 (Lab ID: 60172280010)
  - Vinyl chloride

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.: 60172280

Sample: MW-87 (4.5 FT) - 062014 **Lab ID: 60172280001** Collected: 06/24/14 07:40 Received: 06/25/14 08:15 Matrix: Solid

Results reported on a "dry-weight" basis
Comments: • Analyzed outside of holding time per the clients request.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	**25.9**	ug/kg	17.7	8.8	1		07/15/14 18:19	67-64-1	H1
Benzene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	71-43-2	H1
Bromodichloromethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	75-27-4	H1
Bromoform	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	75-25-2	H1
Bromomethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	74-83-9	H1
2-Butanone (MEK)	ND	ug/kg	8.8	4.4	1		07/15/14 18:19	78-93-3	H1
Carbon disulfide	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	75-15-0	H1
Carbon tetrachloride	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	56-23-5	H1
Chlorobenzene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	108-90-7	H1
Chloroethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	75-00-3	H1
Chloroform	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	67-66-3	H1
Chloromethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	74-87-3	H1
Dibromochloromethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	124-48-1	H1
1,1-Dichloroethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	75-34-3	H1
1,2-Dichloroethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	107-06-2	H1
1,1-Dichloroethene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	75-35-4	H1
cis-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	156-59-2	H1
trans-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	156-60-5	H1
1,2-Dichloropropane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	78-87-5	H1
cis-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	10061-01-5	H1
trans-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	10061-02-6	H1
Ethylbenzene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	100-41-4	H1
2-Hexanone	ND	ug/kg	17.7	8.8	1		07/15/14 18:19	591-78-6	H1
Methylene chloride	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	75-09-2	H1
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.8	4.4	1		07/15/14 18:19	108-10-1	H1
Styrene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	100-42-5	H1
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	79-34-5	H1
Tetrachloroethene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	127-18-4	H1
Toluene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	108-88-3	H1
1,1,1-Trichloroethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	71-55-6	H1
1,1,2-Trichloroethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	79-00-5	H1
Trichloroethene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	79-01-6	H1
Vinyl chloride	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	75-01-4	H1
Xylene (Total)	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	80-120		1		07/15/14 18:19	2037-26-5	
4-Bromofluorobenzene (S)	104	%	76-123		1		07/15/14 18:19	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	75-129		1		07/15/14 18:19	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**11.7**	%	0.50	0.50	1		07/16/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172280

Sample: MW-87 (15.0 FT) - 062014 **Lab ID: 60172280002** Collected: 06/24/14 07:55 Received: 06/25/14 08:15 Matrix: Solid

Results reported on a "dry-weight" basis
Comments: • Analyzed outside of holding time per the clients request.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	16.9	8.4	1		07/15/14 18:34	67-64-1	H1
Benzene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	71-43-2	H1
Bromodichloromethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	75-27-4	H1
Bromoform	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	75-25-2	H1
Bromomethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	74-83-9	H1
2-Butanone (MEK)	ND	ug/kg	8.4	4.2	1		07/15/14 18:34	78-93-3	H1
Carbon disulfide	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	75-15-0	H1
Carbon tetrachloride	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	56-23-5	H1
Chlorobenzene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	108-90-7	H1
Chloroethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	75-00-3	H1
Chloroform	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	67-66-3	H1
Chloromethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	74-87-3	H1
Dibromochloromethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	124-48-1	H1
1,1-Dichloroethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	75-34-3	H1
1,2-Dichloroethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	107-06-2	H1
1,1-Dichloroethene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	75-35-4	H1
cis-1,2-Dichloroethene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	156-59-2	H1
trans-1,2-Dichloroethene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	156-60-5	H1
1,2-Dichloropropane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	78-87-5	H1
cis-1,3-Dichloropropene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	10061-01-5	H1
trans-1,3-Dichloropropene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	10061-02-6	H1
Ethylbenzene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	100-41-4	H1
2-Hexanone	ND	ug/kg	16.9	8.4	1		07/15/14 18:34	591-78-6	H1
Methylene chloride	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	75-09-2	H1
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.4	4.2	1		07/15/14 18:34	108-10-1	H1
Styrene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	100-42-5	H1
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	79-34-5	H1
Tetrachloroethene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	127-18-4	H1
Toluene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	108-88-3	H1
1,1,1-Trichloroethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	71-55-6	H1
1,1,2-Trichloroethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	79-00-5	H1
Trichloroethene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	79-01-6	H1
Vinyl chloride	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	75-01-4	H1
Xylene (Total)	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		07/15/14 18:34	2037-26-5	
4-Bromofluorobenzene (S)	104	%	76-123		1		07/15/14 18:34	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	75-129		1		07/15/14 18:34	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**14.3**	%	0.50	0.50	1		07/16/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172280

Sample: MW-91 (12.5 FT) - 062014 **Lab ID: 60172280003** Collected: 06/24/14 09:56 Received: 06/25/14 08:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	**18.8**	ug/kg	18.6	9.3	1		07/15/14 18:49	67-64-1	H1
Benzene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	71-43-2	H1
Bromodichloromethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	75-27-4	H1
Bromoform	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	75-25-2	H1
Bromomethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	74-83-9	H1
2-Butanone (MEK)	ND	ug/kg	9.3	4.7	1		07/15/14 18:49	78-93-3	H1
Carbon disulfide	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	75-15-0	H1
Carbon tetrachloride	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	56-23-5	H1
Chlorobenzene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	108-90-7	H1
Chloroethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	75-00-3	H1
Chloroform	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	67-66-3	H1
Chloromethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	74-87-3	H1
Dibromochloromethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	124-48-1	H1
1,1-Dichloroethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	75-34-3	H1
1,2-Dichloroethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	107-06-2	H1
1,1-Dichloroethene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	75-35-4	H1
cis-1,2-Dichloroethene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	156-59-2	H1
trans-1,2-Dichloroethene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	156-60-5	H1
1,2-Dichloropropane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	78-87-5	H1
cis-1,3-Dichloropropene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	10061-01-5	H1
trans-1,3-Dichloropropene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	10061-02-6	H1
Ethylbenzene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	100-41-4	H1
2-Hexanone	ND	ug/kg	18.6	9.3	1		07/15/14 18:49	591-78-6	H1
Methylene chloride	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	75-09-2	H1
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.3	4.7	1		07/15/14 18:49	108-10-1	H1
Styrene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	100-42-5	H1
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	79-34-5	H1
Tetrachloroethene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	127-18-4	H1
Toluene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	108-88-3	H1
1,1,1-Trichloroethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	71-55-6	H1
1,1,2-Trichloroethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	79-00-5	H1
Trichloroethene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	79-01-6	H1
Vinyl chloride	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	75-01-4	H1
Xylene (Total)	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		07/15/14 18:49	2037-26-5	
4-Bromofluorobenzene (S)	99	%	76-123		1		07/15/14 18:49	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	75-129		1		07/15/14 18:49	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**13.5**	%	0.50	0.50	1		07/16/14 00:00		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172280

QC Batch: MSV/62575 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60172280004, 60172280005, 60172280006, 60172280008, 60172280009, 60172280010, 60172280011, 60172280012, 60172280013

METHOD BLANK: 1400840 Matrix: Solid
Associated Lab Samples: 60172280004, 60172280005, 60172280006, 60172280008, 60172280009, 60172280010, 60172280011, 60172280012, 60172280013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	06/25/14 16:48	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	06/25/14 16:48	
1,1,2-Trichloroethane	ug/kg	ND	5.0	06/25/14 16:48	
1,1-Dichloroethane	ug/kg	ND	5.0	06/25/14 16:48	
1,1-Dichloroethene	ug/kg	ND	5.0	06/25/14 16:48	
1,2-Dichloroethane	ug/kg	ND	5.0	06/25/14 16:48	
1,2-Dichloropropane	ug/kg	ND	5.0	06/25/14 16:48	
2-Butanone (MEK)	ug/kg	ND	10.0	06/25/14 16:48	
2-Hexanone	ug/kg	ND	20.0	06/25/14 16:48	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	06/25/14 16:48	
Acetone	ug/kg	ND	20.0	06/25/14 16:48	
Benzene	ug/kg	ND	5.0	06/25/14 16:48	
Bromodichloromethane	ug/kg	ND	5.0	06/25/14 16:48	
Bromoform	ug/kg	ND	5.0	06/25/14 16:48	
Bromomethane	ug/kg	2.7J	5.0	06/25/14 16:48	
Carbon disulfide	ug/kg	ND	5.0	06/25/14 16:48	
Carbon tetrachloride	ug/kg	ND	5.0	06/25/14 16:48	
Chlorobenzene	ug/kg	ND	5.0	06/25/14 16:48	
Chloroethane	ug/kg	ND	5.0	06/25/14 16:48	
Chloroform	ug/kg	ND	5.0	06/25/14 16:48	
Chloromethane	ug/kg	ND	5.0	06/25/14 16:48	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/25/14 16:48	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	06/25/14 16:48	
Dibromochloromethane	ug/kg	ND	5.0	06/25/14 16:48	
Ethylbenzene	ug/kg	ND	5.0	06/25/14 16:48	
Methylene chloride	ug/kg	ND	5.0	06/25/14 16:48	
Styrene	ug/kg	ND	5.0	06/25/14 16:48	
Tetrachloroethene	ug/kg	ND	5.0	06/25/14 16:48	
Toluene	ug/kg	ND	5.0	06/25/14 16:48	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	06/25/14 16:48	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	06/25/14 16:48	
Vinyl chloride	ug/kg	ND	5.0	06/25/14 16:48	
Xylene (Total)	ug/kg	ND	5.0	06/25/14 16:48	
1,2-Dichloroethane-d4 (S)	%	99	75-129	06/25/14 16:48	
4-Bromofluorobenzene (S)	%	99	76-123	06/25/14 16:48	
Toluene-d8 (S)	%	100	80-120	06/25/14 16:48	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172280

LABORATORY CONTROL SAMPLE: 1400841

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	87.5	88	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	90.4	90	73-120	
1,1,2-Trichloroethane	ug/kg	100	90.0	90	76-120	
1,1-Dichloroethane	ug/kg	100	86.5	87	71-120	
1,1-Dichloroethene	ug/kg	100	85.8	86	76-130	
1,2-Dichloroethane	ug/kg	100	89.2	89	78-120	
1,2-Dichloropropane	ug/kg	100	86.4	86	80-120	
2-Butanone (MEK)	ug/kg	500	402	80	55-135	
2-Hexanone	ug/kg	500	446	89	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	411	82	71-128	
Acetone	ug/kg	500	466	93	43-144	
Benzene	ug/kg	100	86.2	86	80-120	
Bromodichloromethane	ug/kg	100	90.4	90	80-120	
Bromoform	ug/kg	100	98.3	98	75-124	
Bromomethane	ug/kg	100	128	128	38-150	
Carbon disulfide	ug/kg	100	103	103	58-137	
Carbon tetrachloride	ug/kg	100	87.9	88	75-140	
Chlorobenzene	ug/kg	100	90.4	90	80-120	
Chloroethane	ug/kg	100	93.8	94	65-127	
Chloroform	ug/kg	100	86.0	86	74-120	
Chloromethane	ug/kg	100	105	105	39-138	
cis-1,2-Dichloroethene	ug/kg	100	89.7	90	76-124	
cis-1,3-Dichloropropene	ug/kg	100	84.1	84	82-120	
Dibromochloromethane	ug/kg	100	93.6	94	80-124	
Ethylbenzene	ug/kg	100	89.0	89	80-120	
Methylene chloride	ug/kg	100	94.5	94	70-123	
Styrene	ug/kg	100	88.6	89	79-120	
Tetrachloroethene	ug/kg	100	91.9	92	78-128	
Toluene	ug/kg	100	84.2	84	79-120	
trans-1,2-Dichloroethene	ug/kg	100	86.8	87	76-124	
trans-1,3-Dichloropropene	ug/kg	100	91.5	92	80-124	
Vinyl chloride	ug/kg	100	96.1	96	57-132	
Xylene (Total)	ug/kg	300	268	89	79-120	
1,2-Dichloroethane-d4 (S)	%			98	75-129	
4-Bromofluorobenzene (S)	%			98	76-123	
Toluene-d8 (S)	%			96	80-120	

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REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172280

QC Batch: MSV/62603 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60172280004, 60172280005, 60172280006, 60172280008, 60172280009, 60172280010, 60172280011, 60172280012, 60172280013

METHOD BLANK: 1401487 Matrix: Solid
Associated Lab Samples: 60172280004, 60172280005, 60172280006, 60172280008, 60172280009, 60172280010, 60172280011, 60172280012, 60172280013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/26/14 22:29	
Methylene chloride	ug/kg	ND	5.0	06/26/14 22:29	
Trichloroethene	ug/kg	ND	5.0	06/26/14 22:29	
Vinyl chloride	ug/kg	ND	5.0	06/26/14 22:29	
1,2-Dichloroethane-d4 (S)	%	97	75-129	06/26/14 22:29	
4-Bromofluorobenzene (S)	%	97	76-123	06/26/14 22:29	
Toluene-d8 (S)	%	100	80-120	06/26/14 22:29	

LABORATORY CONTROL SAMPLE: 1401488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/kg	100	92.7	93	76-124	
Methylene chloride	ug/kg	100	113	113	70-123	
Trichloroethene	ug/kg	100	90.9	91	80-120	
Vinyl chloride	ug/kg	100	92.7	93	57-132	
1,2-Dichloroethane-d4 (S)	%			102	75-129	
4-Bromofluorobenzene (S)	%			100	76-123	
Toluene-d8 (S)	%			100	80-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172280

QC Batch: MSV/62998 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60172280001, 60172280002, 60172280003

METHOD BLANK: 1410713 Matrix: Solid
Associated Lab Samples: 60172280001, 60172280002, 60172280003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	07/15/14 18:03	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	07/15/14 18:03	
1,1,2-Trichloroethane	ug/kg	ND	5.0	07/15/14 18:03	
1,1-Dichloroethane	ug/kg	ND	5.0	07/15/14 18:03	
1,1-Dichloroethene	ug/kg	ND	5.0	07/15/14 18:03	
1,2-Dichloroethane	ug/kg	ND	5.0	07/15/14 18:03	
1,2-Dichloropropane	ug/kg	ND	5.0	07/15/14 18:03	
2-Butanone (MEK)	ug/kg	ND	10.0	07/15/14 18:03	
2-Hexanone	ug/kg	ND	20.0	07/15/14 18:03	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	07/15/14 18:03	
Acetone	ug/kg	ND	20.0	07/15/14 18:03	
Benzene	ug/kg	ND	5.0	07/15/14 18:03	
Bromodichloromethane	ug/kg	ND	5.0	07/15/14 18:03	
Bromoform	ug/kg	ND	5.0	07/15/14 18:03	
Bromomethane	ug/kg	ND	5.0	07/15/14 18:03	
Carbon disulfide	ug/kg	ND	5.0	07/15/14 18:03	
Carbon tetrachloride	ug/kg	ND	5.0	07/15/14 18:03	
Chlorobenzene	ug/kg	ND	5.0	07/15/14 18:03	
Chloroethane	ug/kg	ND	5.0	07/15/14 18:03	
Chloroform	ug/kg	ND	5.0	07/15/14 18:03	
Chloromethane	ug/kg	ND	5.0	07/15/14 18:03	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	07/15/14 18:03	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	07/15/14 18:03	
Dibromochloromethane	ug/kg	ND	5.0	07/15/14 18:03	
Ethylbenzene	ug/kg	ND	5.0	07/15/14 18:03	
Methylene chloride	ug/kg	ND	5.0	07/15/14 18:03	
Styrene	ug/kg	ND	5.0	07/15/14 18:03	
Tetrachloroethene	ug/kg	ND	5.0	07/15/14 18:03	
Toluene	ug/kg	ND	5.0	07/15/14 18:03	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	07/15/14 18:03	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	07/15/14 18:03	
Trichloroethene	ug/kg	ND	5.0	07/15/14 18:03	
Vinyl chloride	ug/kg	ND	5.0	07/15/14 18:03	
Xylene (Total)	ug/kg	ND	5.0	07/15/14 18:03	
1,2-Dichloroethane-d4 (S)	%	102	75-129	07/15/14 18:03	
4-Bromofluorobenzene (S)	%	100	76-123	07/15/14 18:03	
Toluene-d8 (S)	%	99	80-120	07/15/14 18:03	

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REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172280

LABORATORY CONTROL SAMPLE: 1410714

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	94.2	94	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	90.0	90	73-120	
1,1,2-Trichloroethane	ug/kg	100	88.6	89	76-120	
1,1-Dichloroethane	ug/kg	100	89.7	90	71-120	
1,1-Dichloroethene	ug/kg	100	89.4	89	76-130	
1,2-Dichloroethane	ug/kg	100	94.7	95	78-120	
1,2-Dichloropropane	ug/kg	100	89.6	90	80-120	
2-Butanone (MEK)	ug/kg	500	466	93	55-135	
2-Hexanone	ug/kg	500	473	95	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	483	97	71-128	
Acetone	ug/kg	500	458	92	43-144	
Benzene	ug/kg	100	89.3	89	80-120	
Bromodichloromethane	ug/kg	100	93.6	94	80-120	
Bromoform	ug/kg	100	96.3	96	75-124	
Bromomethane	ug/kg	100	105	105	38-150	
Carbon disulfide	ug/kg	100	100	100	58-137	
Carbon tetrachloride	ug/kg	100	92.6	93	75-140	
Chlorobenzene	ug/kg	100	87.1	87	80-120	
Chloroethane	ug/kg	100	96.4	96	65-127	
Chloroform	ug/kg	100	93.5	94	74-120	
Chloromethane	ug/kg	100	111	111	39-138	
cis-1,2-Dichloroethene	ug/kg	100	85.0	85	76-124	
cis-1,3-Dichloropropene	ug/kg	100	92.4	92	82-120	
Dibromochloromethane	ug/kg	100	92.8	93	80-124	
Ethylbenzene	ug/kg	100	87.8	88	80-120	
Methylene chloride	ug/kg	100	83.9	84	70-123	
Styrene	ug/kg	100	89.3	89	79-120	
Tetrachloroethene	ug/kg	100	84.9	85	78-128	
Toluene	ug/kg	100	87.9	88	79-120	
trans-1,2-Dichloroethene	ug/kg	100	87.3	87	76-124	
trans-1,3-Dichloropropene	ug/kg	100	89.7	90	80-124	
Trichloroethene	ug/kg	100	88.6	89	80-120	
Vinyl chloride	ug/kg	100	97.6	98	57-132	
Xylene (Total)	ug/kg	300	261	87	79-120	
1,2-Dichloroethane-d4 (S)	%			100	75-129	
4-Bromofluorobenzene (S)	%			99	76-123	
Toluene-d8 (S)	%			101	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172280

QC Batch: PMST/9764 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60172280004, 60172280005, 60172280006, 60172280008, 60172280009, 60172280010

METHOD BLANK: 1400860 Matrix: Solid
Associated Lab Samples: 60172280004, 60172280005, 60172280006, 60172280008, 60172280009, 60172280010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	06/25/14 00:00	

SAMPLE DUPLICATE: 1400861

Parameter	Units	7516259001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%		14.1			

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172280

QC Batch: PMST/9766 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60172280011, 60172280012, 60172280013

METHOD BLANK: 1401289 Matrix: Solid
Associated Lab Samples: 60172280011, 60172280012, 60172280013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	06/26/14 00:00	

SAMPLE DUPLICATE: 1401290

Parameter	Units	60171814027 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.0	17.4	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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(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172280

QC Batch: PMST/9831 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60172280001, 60172280002, 60172280003

METHOD BLANK: 1411285 Matrix: Solid
Associated Lab Samples: 60172280001, 60172280002, 60172280003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	07/16/14 00:00	

SAMPLE DUPLICATE: 1411286

Parameter	Units	60172280001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.7	11.6	1	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.: 60172280

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/62575

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/62603

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/62998

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H1 Analysis conducted outside the EPA method holding time.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60172280

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172280001	**MW-87 (4.5 FT) - 062014**	EPA 8260	MSV/62998		
60172280002	**MW-87 (15.0 FT) - 062014**	EPA 8260	MSV/62998		
60172280003	**MW-91 (12.5 FT) - 062014**	EPA 8260	MSV/62998		
60172280004	**DP-23 (4.5 FT) - 062014**	EPA 8260	MSV/62575		
60172280004	**DP-23 (4.5 FT) - 062014**	EPA 8260	MSV/62603		
60172280005	**DP-23 (10.0 FT) - 062014**	EPA 8260	MSV/62575		
60172280005	**DP-23 (10.0 FT) - 062014**	EPA 8260	MSV/62603		
60172280006	**DP-23 (15.0 FT) - 062014**	EPA 8260	MSV/62575		
60172280006	**DP-23 (15.0 FT) - 062014**	EPA 8260	MSV/62603		
60172280008	**DP-23 (20.5 FT) - 062014**	EPA 8260	MSV/62575		
60172280008	**DP-23 (20.5 FT) - 062014**	EPA 8260	MSV/62603		
60172280009	**DP-28 (4.5 FT) - 062014**	EPA 8260	MSV/62575		
60172280009	**DP-28 (4.5 FT) - 062014**	EPA 8260	MSV/62603		
60172280010	**DP-28 (7.5 FT) - 062014**	EPA 8260	MSV/62575		
60172280010	**DP-28 (7.5 FT) - 062014**	EPA 8260	MSV/62603		
60172280011	**DP-28 (12.0 FT) - 062014**	EPA 8260	MSV/62575		
60172280011	**DP-28 (12.0 FT) - 062014**	EPA 8260	MSV/62603		
60172280012	**DP-28 (17.0 FT) - 062014**	EPA 8260	MSV/62575		
60172280012	**DP-28 (17.0 FT) - 062014**	EPA 8260	MSV/62603		
60172280013	**DP-28 (20.5 FT) - 062015**	EPA 8260	MSV/62575		
60172280013	**DP-28 (20.5 FT) - 062015**	EPA 8260	MSV/62603		
60172280001	**MW-87 (4.5 FT) - 062014**	ASTM D2974	PMST/9831		
60172280002	**MW-87 (15.0 FT) - 062014**	ASTM D2974	PMST/9831		
60172280003	**MW-91 (12.5 FT) - 062014**	ASTM D2974	PMST/9831		
60172280005	**DP-23 (10.0 FT) - 062014**	ASTM D2974	PMST/9764		
60172280008	**DP-23 (20.5 FT) - 062014**	ASTM D2974	PMST/9764		
60172280009	**DP-28 (4.5 FT) - 062014**	ASTM D2974	PMST/9764		
60172280010	**DP-28 (7.5 FT) - 062014**	ASTM D2974	PMST/9764		
60172280011	**DP-28 (12.0 FT) - 062014**	ASTM D2974	PMST/9766		
60172280012	**DP-28 (17.0 FT) - 062014**	ASTM D2974	PMST/9766		
60172280013	**DP-28 (20.5 FT) - 062015**	ASTM D2974	PMST/9766		

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Sample Condition Upon Receipt

WO#: 60172280

60172280

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 8043 8677 8990 Pace Shipping Label Used? Yes ☒ No ☐ (Knight)

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☑ Bubble Bags ☐ Foam ☐ None ☐ Other ☐

Thermometer Used: ~~T-239~~ / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.4

Date and initials of person examining contents: DRS 6/25/19 935

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. 3 day TAT
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: ~~water~~ soil		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, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed: MA / Lot # of added preservative:
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 111813-3		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☒No ☐N/A	17. List State: Fort Smith, AR

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / (N)

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: A for (MJD) Date: 6/25

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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:	3-Day 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:	3433233A

Section C — Invoice Information:

Attention:	Tamara Gleason
Company Name:	ENVIRON
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJ Walls
Pace Profile #:	7444, line 1

REGULATORY AGENCY

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

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): N

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: 8260 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60172280
1	MW-87 (4.5 FT) -062014	SL	G			6/24/14	0740		5	X						X	X	X		Hold 01
2	MW-87 (15.0 FT) -062014						0755													Hold 02
3	MW-91 (12.5 FT) -062014						0950													Hold 03
4	DP-23 (4.5 FT) -062014						1320													04
5	DP-23 (10.0 FT) -062014						1335													05
6	DP-23 (15.0 FT) -062014						1340													06
7	DP-23 (17.5 FT) -062014						1355													07
8	DP-23 (20.5 FT) -062014						1410													08
9	DP-28 (4.5 FT) -062014						1450													09
10	DP-28 (7.5 FT) -062014						1500													010
11	DP-28 (12.0 FT) -062014						1510													011
12	DP-28 (17.0 FT) -062014						1520													012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
3-Day TAT See samples for hold	[signature] / ENVIRON	6/24/14	1750	[signature] / Pace	6/25/14	815	2.4	Y	Y	Y

SAMPLE CONDITIONS

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 6/24/14

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

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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

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:	3-Day 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:	3433233A

Section C Invoice Information:

Attention:	Tamara Gleason
Company Name:	ENVIRON
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJ Walls
Pace Profile #:	7444, line 1

REGULATORY AGENCY

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

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

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

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 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-28 (20.5 FT) -062014	SL	G			6/24/14	1540		5	X						X	X		X		2(VOA) 1(8260) 1(VOA) 1(8260) 003
2	DP-28 (26.5 FT) -062014	↓	↓			↓	1550			↓						↓	↓		↓		004
3	Trip Blank 02 -062014	WT																			2(VOA) 005
4	Temp Blank																				
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
3-Day TAT	/ENVIRON	6/24/14	1750	/Pace	6/25/14	815	2.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): 6/24/14

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

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

June 26, 2014

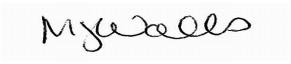
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60172300

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on June 25, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: EDD, Environ_AR
Tamara Gleason, ENVIRON International Corporation
Wayne Weber, Environ

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60172300

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60172300

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172300001	**20140624-GW-MW-88**	Water	06/24/14 14:20	06/25/14 08:15
60172300002	**20140624-GW-MW-89**	Water	06/24/14 16:40	06/25/14 08:15
60172300003	**TRIP BLANK-GW-01**	Water	06/24/14 08:00	06/25/14 08:15

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60172300

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172300001	**20140624-GW-MW-88**	EPA 5030B/8260	PRG	38
60172300002	**20140624-GW-MW-89**	EPA 5030B/8260	PRG	38
60172300003	**TRIP BLANK-GW-01**	EPA 5030B/8260	PRG	38

Pace Analytical Services, Inc.
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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60172300

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: June 26, 2014

General Information:
3 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

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/62580

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.

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172300

Sample: 20140624-GW-MW-88 **Lab ID: 60172300001** Collected: 06/24/14 14:20 Received: 06/25/14 08:15 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	5.0	1		06/26/14 10:16	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		06/26/14 10:16	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		06/26/14 10:16	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		06/26/14 10:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		06/26/14 10:16	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		06/26/14 10:16	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		06/26/14 10:16	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		06/26/14 10:16	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		06/26/14 10:16	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		06/26/14 10:16	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		06/26/14 10:16	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		06/26/14 10:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		06/26/14 10:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/26/14 10:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/26/14 10:16	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		06/26/14 10:16	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		06/26/14 10:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		06/26/14 10:16	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/26/14 10:16	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:16	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		06/26/14 10:16	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		06/26/14 10:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		06/26/14 10:16	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120		1		06/26/14 10:16	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		06/26/14 10:16	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/26/14 10:16		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172300

Sample: 20140624-GW-MW-89 **Lab ID: 60172300002** Collected: 06/24/14 16:40 Received: 06/25/14 08:15 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	5.0	1		06/26/14 10:31	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		06/26/14 10:31	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		06/26/14 10:31	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		06/26/14 10:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		06/26/14 10:31	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		06/26/14 10:31	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		06/26/14 10:31	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		06/26/14 10:31	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		06/26/14 10:31	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		06/26/14 10:31	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		06/26/14 10:31	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		06/26/14 10:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		06/26/14 10:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/26/14 10:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/26/14 10:31	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		06/26/14 10:31	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		06/26/14 10:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		06/26/14 10:31	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/26/14 10:31	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:31	79-00-5	
Trichloroethene	**19.5**	ug/L	5.0	0.50	1		06/26/14 10:31	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		06/26/14 10:31	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		06/26/14 10:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	80-120		1		06/26/14 10:31	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120		1		06/26/14 10:31	17060-07-0	
Toluene-d8 (S)	95	%	80-120		1		06/26/14 10:31	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/26/14 10:31		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172300

Sample: TRIP BLANK-GW-01 **Lab ID: 60172300003** Collected: 06/24/14 08:00 Received: 06/25/14 08:15 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	5.0	1		06/26/14 10:02	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		06/26/14 10:02	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		06/26/14 10:02	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		06/26/14 10:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		06/26/14 10:02	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		06/26/14 10:02	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		06/26/14 10:02	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		06/26/14 10:02	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		06/26/14 10:02	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		06/26/14 10:02	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		06/26/14 10:02	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		06/26/14 10:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		06/26/14 10:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/26/14 10:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/26/14 10:02	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		06/26/14 10:02	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		06/26/14 10:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		06/26/14 10:02	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/26/14 10:02	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:02	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		06/26/14 10:02	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		06/26/14 10:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		06/26/14 10:02	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120		1		06/26/14 10:02	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		06/26/14 10:02	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/26/14 10:02		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172300

QC Batch: MSV/62580 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60172300001, 60172300002, 60172300003

METHOD BLANK: 1400905 Matrix: Water
Associated Lab Samples: 60172300001, 60172300002, 60172300003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/26/14 09:48	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/26/14 09:48	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/26/14 09:48	
1,1-Dichloroethane	ug/L	ND	2.4	06/26/14 09:48	
1,1-Dichloroethene	ug/L	ND	5.0	06/26/14 09:48	
1,2-Dichloroethane	ug/L	ND	5.0	06/26/14 09:48	
1,2-Dichloropropane	ug/L	ND	5.0	06/26/14 09:48	
2-Butanone (MEK)	ug/L	ND	10.0	06/26/14 09:48	
2-Hexanone	ug/L	ND	10.0	06/26/14 09:48	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/26/14 09:48	
Acetone	ug/L	ND	10.0	06/26/14 09:48	
Benzene	ug/L	ND	5.0	06/26/14 09:48	
Bromodichloromethane	ug/L	ND	5.0	06/26/14 09:48	
Bromoform	ug/L	ND	5.0	06/26/14 09:48	
Bromomethane	ug/L	ND	7.0	06/26/14 09:48	
Carbon disulfide	ug/L	ND	10.0	06/26/14 09:48	
Carbon tetrachloride	ug/L	ND	5.0	06/26/14 09:48	
Chlorobenzene	ug/L	ND	5.0	06/26/14 09:48	
Chloroethane	ug/L	ND	10.0	06/26/14 09:48	
Chloroform	ug/L	ND	5.0	06/26/14 09:48	
Chloromethane	ug/L	ND	10.0	06/26/14 09:48	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/26/14 09:48	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/26/14 09:48	
Dibromochloromethane	ug/L	ND	5.0	06/26/14 09:48	
Ethylbenzene	ug/L	ND	5.0	06/26/14 09:48	
Methylene chloride	ug/L	1.2J	5.0	06/26/14 09:48	
Styrene	ug/L	ND	5.0	06/26/14 09:48	
Tetrachloroethene	ug/L	ND	5.0	06/26/14 09:48	
Toluene	ug/L	ND	5.0	06/26/14 09:48	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/26/14 09:48	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/26/14 09:48	
Trichloroethene	ug/L	ND	5.0	06/26/14 09:48	
Vinyl chloride	ug/L	ND	2.0	06/26/14 09:48	
Xylene (Total)	ug/L	ND	5.0	06/26/14 09:48	
1,2-Dichloroethane-d4 (S)	%	95	80-120	06/26/14 09:48	
4-Bromofluorobenzene (S)	%	99	80-120	06/26/14 09:48	
Toluene-d8 (S)	%	97	80-120	06/26/14 09:48	

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172300

LABORATORY CONTROL SAMPLE: 1400906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.6	103	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	21.0	105	73-124	
1,1,2-Trichloroethane	ug/L	20	20.7	103	80-120	
1,1-Dichloroethane	ug/L	20	20.3	102	77-120	
1,1-Dichloroethene	ug/L	20	20.5	103	78-126	
1,2-Dichloroethane	ug/L	20	19.6	98	77-123	
1,2-Dichloropropane	ug/L	20	21.2	106	80-121	
2-Butanone (MEK)	ug/L	100	98.8	99	52-145	
2-Hexanone	ug/L	100	93.2	93	57-139	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	71-131	
Acetone	ug/L	100	94.7	95	32-155	
Benzene	ug/L	20	20.9	105	80-120	
Bromodichloromethane	ug/L	20	21.8	109	80-120	
Bromoform	ug/L	20	21.3	107	73-124	
Bromomethane	ug/L	20	16.8	84	31-144	
Carbon disulfide	ug/L	20	22.0	110	65-125	
Carbon tetrachloride	ug/L	20	20.2	101	78-128	
Chlorobenzene	ug/L	20	20.8	104	80-120	
Chloroethane	ug/L	20	23.9	119	55-137	
Chloroform	ug/L	20	21.0	105	79-120	
Chloromethane	ug/L	20	8.9J	44	22-138	
cis-1,2-Dichloroethene	ug/L	20	20.7	104	80-120	
cis-1,3-Dichloropropene	ug/L	20	21.0	105	80-120	
Dibromochloromethane	ug/L	20	20.2	101	80-120	
Ethylbenzene	ug/L	20	20.4	102	80-121	
Methylene chloride	ug/L	20	24.0	120	73-126	
Styrene	ug/L	20	21.7	108	80-120	
Tetrachloroethene	ug/L	20	20.6	103	80-121	
Toluene	ug/L	20	20.2	101	80-122	
trans-1,2-Dichloroethene	ug/L	20	18.8	94	79-121	
trans-1,3-Dichloropropene	ug/L	20	20.0	100	80-127	
Trichloroethene	ug/L	20	19.9	100	80-120	
Vinyl chloride	ug/L	20	17.9	90	59-120	
Xylene (Total)	ug/L	60	62.5	104	80-121	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60172300

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/62580

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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.: 60172300

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172300001	**20140624-GW-MW-88**	EPA 5030B/8260	MSV/62580		
60172300002	**20140624-GW-MW-89**	EPA 5030B/8260	MSV/62580		
60172300003	**TRIP BLANK-GW-01**	EPA 5030B/8260	MSV/62580		

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Sample Condition Upon Receipt

WO# : 60172300

60172300

Client Name: Enviro

Optional
Proj Due Date:
Proj Name:

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

Tracking #: 8043 8677 9004 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 ☑ Zip

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet / Blue / None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 0.8

Temperature should be above freezing to 6°C

Date and initials of person examining contents: AH 6/25

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. 1 day
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: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	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, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): 050514-SGFD	☑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:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW Date: 6/25/14

Pace Analytical
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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:	1-Day 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:	3433233A

Section C Invoice Information:

Attention:	Tamara Gleason
Company Name:	ENVIRON
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJ Walls
Pace Profile #:	7444, line 1

REGULATORY AGENCY

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

Site Location STATE: AR

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N): N

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	8260 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	20140624-GW-MW-88	WT	G			6-24-14	1420		3				X					X		3(DG9H) 01
2	20140624-GW-MW-89	WT	G			6-24-14	1640		3				X					X		↓ 02
3	Trip Blank - GW-01					6-24-14			2				X					X		2(DG9H) 03
4	Temperature Blank								1	X								X (crossed out)		
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Pace Project No.: 6017230

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1-DAY TAT	[signature] / ENVIRON	6-24-14	1710	[signature] / PASI	6/25	8:15	0.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jeff Melson

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6-24-14

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

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

June 27, 2014

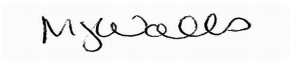
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: Fort Smith
Pace Project No.: 60172431

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on June 26, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: EDD, Environ_AR
Tamara Gleason, ENVIRON International Corporation
Wayne Weber, Environ

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

CERTIFICATIONS

Project: Fort Smith
Pace Project No.: 60172431

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: Fort Smith
Pace Project No.: 60172431

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172431001	**20140625-GW-MW-87**	Water	06/25/14 10:50	06/26/14 02:03
60172431002	**20140625-GW-MW-90**	Water	06/25/14 08:00	06/26/14 02:03
60172431003	**20140625-GW-MW-91**	Water	06/25/14 13:15	06/26/14 02:03
60172431004	**TRIP BLANK**	Water	06/25/14 13:15	06/26/14 02:03

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: Fort Smith
Pace Project No.: 60172431

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172431001	**20140625-GW-MW-87**	EPA 5030B/8260	PRG	38
60172431002	**20140625-GW-MW-90**	EPA 5030B/8260	PRG	38
60172431003	**20140625-GW-MW-91**	EPA 5030B/8260	PRG	38
60172431004	**TRIP BLANK**	EPA 5030B/8260	PRG	38

Pace Analytical Services, Inc.
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PROJECT NARRATIVE

Project: Fort Smith
Pace Project No.: 60172431

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: June 27, 2014

General Information:
4 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

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/62615

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.

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Fort Smith
Pace Project No.: 60172431

Sample: 20140625-GW-MW-87 **Lab ID: 60172431001** Collected: 06/25/14 10:50 Received: 06/26/14 02:03 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	5.0	1		06/27/14 10:27	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		06/27/14 10:27	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		06/27/14 10:27	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		06/27/14 10:27	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		06/27/14 10:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		06/27/14 10:27	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		06/27/14 10:27	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		06/27/14 10:27	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		06/27/14 10:27	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		06/27/14 10:27	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		06/27/14 10:27	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		06/27/14 10:27	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		06/27/14 10:27	124-48-1	
1,1-Dichloroethane	**2.1J**	ug/L	2.4	0.50	1		06/27/14 10:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:27	107-06-2	
1,1-Dichloroethene	**5.8**	ug/L	5.0	0.50	1		06/27/14 10:27	75-35-4	
cis-1,2-Dichloroethene	**41.8**	ug/L	5.0	0.50	1		06/27/14 10:27	156-59-2	
trans-1,2-Dichloroethene	**4.5J**	ug/L	5.0	0.50	1		06/27/14 10:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		06/27/14 10:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/27/14 10:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/27/14 10:27	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		06/27/14 10:27	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		06/27/14 10:27	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		06/27/14 10:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		06/27/14 10:27	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		06/27/14 10:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/27/14 10:27	79-34-5	
Tetrachloroethene	**2.6J**	ug/L	5.0	0.50	1		06/27/14 10:27	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		06/27/14 10:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:27	79-00-5	
Trichloroethene	**564**	ug/L	50.0	5.0	10		06/27/14 11:11	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		06/27/14 10:27	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		06/27/14 10:27	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		06/27/14 10:27	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120		1		06/27/14 10:27	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		06/27/14 10:27	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/27/14 10:27		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith
Pace Project No.: 60172431

Sample: 20140625-GW-MW-90 **Lab ID: 60172431002** Collected: 06/25/14 08:00 Received: 06/26/14 02:03 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	5.0	1		06/27/14 10:42	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		06/27/14 10:42	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		06/27/14 10:42	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		06/27/14 10:42	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		06/27/14 10:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		06/27/14 10:42	78-93-3	
Carbon disulfide	**3.2J**	ug/L	10.0	2.5	1		06/27/14 10:42	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		06/27/14 10:42	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		06/27/14 10:42	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		06/27/14 10:42	75-00-3	
Chloroform	**1.6J**	ug/L	5.0	0.50	1		06/27/14 10:42	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		06/27/14 10:42	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		06/27/14 10:42	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		06/27/14 10:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		06/27/14 10:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/27/14 12:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/27/14 10:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		06/27/14 10:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/27/14 10:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/27/14 10:42	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		06/27/14 10:42	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		06/27/14 10:42	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		06/27/14 10:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		06/27/14 10:42	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		06/27/14 10:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/27/14 10:42	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		06/27/14 10:42	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		06/27/14 10:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:42	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		06/27/14 12:51	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		06/27/14 10:42	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		06/27/14 10:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	80-120		1		06/27/14 10:42	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120		1		06/27/14 10:42	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		06/27/14 10:42	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/27/14 10:42		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith
Pace Project No.: 60172431

Sample: 20140625-GW-MW-91 **Lab ID: 60172431003** Collected: 06/25/14 13:15 Received: 06/26/14 02:03 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	5.0	1		06/27/14 10:56	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		06/27/14 10:56	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		06/27/14 10:56	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		06/27/14 10:56	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		06/27/14 10:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		06/27/14 10:56	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		06/27/14 10:56	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		06/27/14 10:56	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		06/27/14 10:56	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		06/27/14 10:56	75-00-3	
Chloroform	**4.8J**	ug/L	5.0	0.50	1		06/27/14 10:56	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		06/27/14 10:56	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		06/27/14 10:56	124-48-1	
1,1-Dichloroethane	**0.93J**	ug/L	2.4	0.50	1		06/27/14 10:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:56	107-06-2	
1,1-Dichloroethene	**2.6J**	ug/L	5.0	0.50	1		06/27/14 10:56	75-35-4	
cis-1,2-Dichloroethene	**21.7**	ug/L	5.0	0.50	1		06/27/14 10:56	156-59-2	
trans-1,2-Dichloroethene	**2.2J**	ug/L	5.0	0.50	1		06/27/14 10:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		06/27/14 10:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/27/14 10:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/27/14 10:56	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		06/27/14 10:56	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		06/27/14 10:56	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		06/27/14 10:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		06/27/14 10:56	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		06/27/14 10:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/27/14 10:56	79-34-5	
Tetrachloroethene	**1.1J**	ug/L	5.0	0.50	1		06/27/14 10:56	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		06/27/14 10:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:56	79-00-5	
Trichloroethene	**234**	ug/L	25.0	2.5	5		06/27/14 11:25	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		06/27/14 10:56	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		06/27/14 10:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		06/27/14 10:56	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	80-120		1		06/27/14 10:56	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		06/27/14 10:56	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/27/14 10:56		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith
Pace Project No.: 60172431

Sample: TRIP BLANK **Lab ID: 60172431004** Collected: 06/25/14 13:15 Received: 06/26/14 02:03 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	5.0	1		06/27/14 09:15	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		06/27/14 09:15	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		06/27/14 09:15	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		06/27/14 09:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		06/27/14 09:15	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		06/27/14 09:15	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		06/27/14 09:15	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		06/27/14 09:15	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		06/27/14 09:15	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		06/27/14 09:15	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		06/27/14 09:15	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		06/27/14 09:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 09:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		06/27/14 09:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/27/14 09:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/27/14 09:15	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		06/27/14 09:15	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		06/27/14 09:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		06/27/14 09:15	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/27/14 09:15	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 09:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 09:15	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		06/27/14 09:15	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		06/27/14 09:15	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		06/27/14 09:15	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	80-120		1		06/27/14 09:15	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		06/27/14 09:15	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/27/14 09:15		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Fort Smith
Pace Project No.: 60172431

QC Batch: MSV/62615 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60172431001, 60172431002, 60172431003, 60172431004

METHOD BLANK: 1401669 Matrix: Water
Associated Lab Samples: 60172431001, 60172431002, 60172431003, 60172431004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/27/14 09:01	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/27/14 09:01	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/27/14 09:01	
1,1-Dichloroethane	ug/L	ND	2.4	06/27/14 09:01	
1,1-Dichloroethene	ug/L	ND	5.0	06/27/14 09:01	
1,2-Dichloroethane	ug/L	ND	5.0	06/27/14 09:01	
1,2-Dichloropropane	ug/L	ND	5.0	06/27/14 09:01	
2-Butanone (MEK)	ug/L	ND	10.0	06/27/14 09:01	
2-Hexanone	ug/L	ND	10.0	06/27/14 09:01	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/27/14 09:01	
Acetone	ug/L	ND	10.0	06/27/14 09:01	
Benzene	ug/L	ND	5.0	06/27/14 09:01	
Bromodichloromethane	ug/L	ND	5.0	06/27/14 09:01	
Bromoform	ug/L	ND	5.0	06/27/14 09:01	
Bromomethane	ug/L	ND	7.0	06/27/14 09:01	
Carbon disulfide	ug/L	ND	10.0	06/27/14 09:01	
Carbon tetrachloride	ug/L	ND	5.0	06/27/14 09:01	
Chlorobenzene	ug/L	ND	5.0	06/27/14 09:01	
Chloroethane	ug/L	ND	10.0	06/27/14 09:01	
Chloroform	ug/L	ND	5.0	06/27/14 09:01	
Chloromethane	ug/L	ND	10.0	06/27/14 09:01	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/27/14 09:01	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/27/14 09:01	
Dibromochloromethane	ug/L	ND	5.0	06/27/14 09:01	
Ethylbenzene	ug/L	ND	5.0	06/27/14 09:01	
Methylene chloride	ug/L	ND	5.0	06/27/14 09:01	
Styrene	ug/L	ND	5.0	06/27/14 09:01	
Tetrachloroethene	ug/L	ND	5.0	06/27/14 09:01	
Toluene	ug/L	ND	5.0	06/27/14 09:01	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/27/14 09:01	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/27/14 09:01	
Trichloroethene	ug/L	ND	5.0	06/27/14 09:01	
Vinyl chloride	ug/L	ND	2.0	06/27/14 09:01	
Xylene (Total)	ug/L	ND	5.0	06/27/14 09:01	
1,2-Dichloroethane-d4 (S)	%	92	80-120	06/27/14 09:01	
4-Bromofluorobenzene (S)	%	99	80-120	06/27/14 09:01	
Toluene-d8 (S)	%	99	80-120	06/27/14 09:01	

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Fort Smith
Pace Project No.: 60172431

LABORATORY CONTROL SAMPLE: 1401670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.0	100	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	20.7	104	73-124	
1,1,2-Trichloroethane	ug/L	20	20.5	103	80-120	
1,1-Dichloroethane	ug/L	20	20.4	102	77-120	
1,1-Dichloroethene	ug/L	20	19.4	97	78-126	
1,2-Dichloroethane	ug/L	20	18.4	92	77-123	
1,2-Dichloropropane	ug/L	20	21.7	108	80-121	
2-Butanone (MEK)	ug/L	100	101	101	52-145	
2-Hexanone	ug/L	100	96.8	97	57-139	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	71-131	
Acetone	ug/L	100	98.8	99	32-155	
Benzene	ug/L	20	20.7	104	80-120	
Bromodichloromethane	ug/L	20	21.3	106	80-120	
Bromoform	ug/L	20	21.7	108	73-124	
Bromomethane	ug/L	20	15.7	78	31-144	
Carbon disulfide	ug/L	20	20.9	104	65-125	
Carbon tetrachloride	ug/L	20	19.7	99	78-128	
Chlorobenzene	ug/L	20	20.9	105	80-120	
Chloroethane	ug/L	20	24.5	122	55-137	
Chloroform	ug/L	20	20.2	101	79-120	
Chloromethane	ug/L	20	8.8J	44	22-138	
cis-1,2-Dichloroethene	ug/L	20	20.0	100	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.9	104	80-120	
Dibromochloromethane	ug/L	20	20.7	104	80-120	
Ethylbenzene	ug/L	20	20.8	104	80-121	
Methylene chloride	ug/L	20	22.5	112	73-126	
Styrene	ug/L	20	22.2	111	80-120	
Tetrachloroethene	ug/L	20	20.4	102	80-121	
Toluene	ug/L	20	20.1	101	80-122	
trans-1,2-Dichloroethene	ug/L	20	18.3	91	79-121	
trans-1,3-Dichloropropene	ug/L	20	19.6	98	80-127	
Trichloroethene	ug/L	20	19.4	97	80-120	
Vinyl chloride	ug/L	20	15.0	75	59-120	
Xylene (Total)	ug/L	60	64.1	107	80-121	
1,2-Dichloroethane-d4 (S)	%			90	80-120	
4-Bromofluorobenzene (S)	%			94	80-120	
Toluene-d8 (S)	%			96	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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: Fort Smith
Pace Project No.: 60172431

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/62615

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fort Smith
Pace Project No.: 60172431

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172431001	**20140625-GW-MW-87**	EPA 5030B/8260	MSV/62615		
60172431002	**20140625-GW-MW-90**	EPA 5030B/8260	MSV/62615		
60172431003	**20140625-GW-MW-91**	EPA 5030B/8260	MSV/62615		
60172431004	**TRIP BLANK**	EPA 5030B/8260	MSV/62615		

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Sample Condition Upon Receipt

WO# : 60172431

60172431

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☑ VIA

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 ☒ ZPLC

Thermometer Used: (T-239) / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 4.4

Date and initials of person examining contents: JB 6/2.6

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. 1-Day
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, TOC, O&G, WI-DRO (water), Phenolics	☑Yes	☐No		Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes	☐No	☐N/A	
Pace Trip Blank lot # (if purchased): 5/6/14				15.
Headspace in VOA vials (>6mm):	☐Yes	☒No	☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☐No	☒N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW Date: 6/26/14

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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:	Tamara Gleason
Address:	7500 College Blvd., Ste. 925	Copy To:	Tamara Gleason	Company Name:	ENVIRON
	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:	MJ Walls
Requested Due Date/TAT:	1-Day TAT	Project Number:	3433233A	Pace Profile #:	7444, line 1

REGULATORY AGENCY

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

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 — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	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 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	20140625-GW-MW-87		WT	G			6-25-14	1050		3				X						X	(3)DGAH		01
2	20140625-GW-MW-90		WT	G			↓	0800		↓				↓						↓	↓		~~HOLD~~ JM 02
3	20140625-GW-MW-91		WT	G			↓	1315		↓				↓						↓	↓		~~HOLD~~ JM 03
4	TRIP BLANK																				(2)DGAH		04
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

60172431

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)
1-Day TAT	Jeff Melson / ENVIRON	6-25-14	1445	Pace	6/26	0203	4.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jeff Melson

SIGNATURE of SAMPLER: Jeff Melson DATE Signed (MM/DD/YY): 6-25-14

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 11, 2014

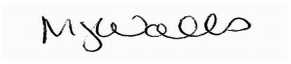
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: Ft. Smith Soil
Pace Project No.: 60175335

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on August 08, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: EDD, Environ_AR
Tamara Gleason, ENVIRON International Corporation

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: Ft. Smith Soil
Pace Project No.: 60175335

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: Ft. Smith Soil
Pace Project No.: 60175335

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60175335001	**DP-40 (4.0 FT) - 082014**	Solid	08/07/14 13:05	08/08/14 08:40
60175335002	**DP-40 (11.0 FT) - 082014**	Solid	08/07/14 13:25	08/08/14 08:40
60175335003	**DP-40 (14.5 FT) - 082014**	Solid	08/07/14 14:20	08/08/14 08:40
60175335004	**TRIP BLANK**	Solid	08/07/14 13:05	08/08/14 08:40

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SAMPLE ANALYTE COUNT

Project: Ft. Smith Soil
Pace Project No.: 60175335

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60175335001	**DP-40 (4.0 FT) - 082014**	EPA 8260	JKL	37
		ASTM D2974	TMD	1
60175335002	**DP-40 (11.0 FT) - 082014**	EPA 8260	JKL	37
		ASTM D2974	TMD	1
60175335003	**DP-40 (14.5 FT) - 082014**	EPA 8260	JKL	37
		ASTM D2974	TMD	1
60175335004	**TRIP BLANK**	EPA 8260	JKL	37

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: Ft. Smith Soil
Pace Project No.: 60175335

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: August 11, 2014

General Information:
4 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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/63457

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1422645)
  - Bromomethane
  - Chloromethane

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

QC Batch: MSV/63457

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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60175335

Sample: DP-40 (4.0 FT) - 082014 **Lab ID: 60175335001** Collected: 08/07/14 13:05 Received: 08/08/14 08:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	19.5	9.7	1		08/08/14 18:09	67-64-1	
Benzene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	71-43-2	
Bromodichloromethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	75-27-4	
Bromoform	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	75-25-2	
Bromomethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	74-83-9	L3
2-Butanone (MEK)	ND	ug/kg	9.7	4.9	1		08/08/14 18:09	78-93-3	
Carbon disulfide	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	108-90-7	
Chloroethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	75-00-3	
Chloroform	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	67-66-3	
Chloromethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	74-87-3	L3
Dibromochloromethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	10061-02-6	
Ethylbenzene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	100-41-4	
2-Hexanone	ND	ug/kg	19.5	9.7	1		08/08/14 18:09	591-78-6	
Methylene chloride	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.7	4.9	1		08/08/14 18:09	108-10-1	
Styrene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	127-18-4	
Toluene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	79-00-5	
Trichloroethene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	79-01-6	
Vinyl chloride	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	75-01-4	
Xylene (Total)	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	1330-20-7	
Surrogates									
Toluene-d8 (S)	106	%	80-120		1		08/08/14 18:09	2037-26-5	
4-Bromofluorobenzene (S)	105	%	76-123		1		08/08/14 18:09	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	75-129		1		08/08/14 18:09	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**14.7**	%	0.50	0.50	1		08/09/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60175335

Sample: DP-40 (11.0 FT) - 082014 **Lab ID: 60175335002** Collected: 08/07/14 13:25 Received: 08/08/14 08:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	17.7	8.9	1		08/08/14 18:25	67-64-1	
Benzene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	71-43-2	
Bromodichloromethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	75-27-4	
Bromoform	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	75-25-2	
Bromomethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	74-83-9	L3
2-Butanone (MEK)	ND	ug/kg	8.9	4.4	1		08/08/14 18:25	78-93-3	
Carbon disulfide	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	108-90-7	
Chloroethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	75-00-3	
Chloroform	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	67-66-3	
Chloromethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	74-87-3	L3
Dibromochloromethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	100-41-4	
2-Hexanone	ND	ug/kg	17.7	8.9	1		08/08/14 18:25	591-78-6	
Methylene chloride	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.9	4.4	1		08/08/14 18:25	108-10-1	
Styrene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	127-18-4	
Toluene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	79-00-5	
Trichloroethene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	79-01-6	
Vinyl chloride	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	75-01-4	
Xylene (Total)	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	1330-20-7	
Surrogates									
Toluene-d8 (S)	105	%	80-120		1		08/08/14 18:25	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/08/14 18:25	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	75-129		1		08/08/14 18:25	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**12.1**	%	0.50	0.50	1		08/09/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60175335

Sample: DP-40 (14.5 FT) - 082014 **Lab ID: 60175335003** Collected: 08/07/14 14:20 Received: 08/08/14 08:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	19.4	9.7	1		08/08/14 18:40	67-64-1	
Benzene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	71-43-2	
Bromodichloromethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	75-27-4	
Bromoform	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	75-25-2	
Bromomethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	74-83-9	L3
2-Butanone (MEK)	ND	ug/kg	9.7	4.8	1		08/08/14 18:40	78-93-3	
Carbon disulfide	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	108-90-7	
Chloroethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	75-00-3	
Chloroform	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	67-66-3	
Chloromethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	74-87-3	L3
Dibromochloromethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	100-41-4	
2-Hexanone	ND	ug/kg	19.4	9.7	1		08/08/14 18:40	591-78-6	
Methylene chloride	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.7	4.8	1		08/08/14 18:40	108-10-1	
Styrene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	127-18-4	
Toluene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	79-00-5	
Trichloroethene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	79-01-6	
Vinyl chloride	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	75-01-4	
Xylene (Total)	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	1330-20-7	
Surrogates									
Toluene-d8 (S)	104	%	80-120		1		08/08/14 18:40	2037-26-5	
4-Bromofluorobenzene (S)	104	%	76-123		1		08/08/14 18:40	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-129		1		08/08/14 18:40	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**12.4**	%	0.50	0.50	1		08/09/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60175335

Sample: TRIP BLANK **Lab ID: 60175335004** Collected: 08/07/14 13:05 Received: 08/08/14 08:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	20.0	10.0	1		08/08/14 17:39	67-64-1	
Benzene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	71-43-2	
Bromodichloromethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	75-27-4	
Bromoform	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	75-25-2	
Bromomethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	74-83-9	L3
2-Butanone (MEK)	ND	ug/kg	10.0	5.0	1		08/08/14 17:39	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	75-00-3	
Chloroform	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	67-66-3	
Chloromethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	74-87-3	L3
Dibromochloromethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	100-41-4	
2-Hexanone	ND	ug/kg	20.0	10.0	1		08/08/14 17:39	591-78-6	
Methylene chloride	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	5.0	1		08/08/14 17:39	108-10-1	
Styrene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	127-18-4	
Toluene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	79-00-5	
Trichloroethene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	79-01-6	
Vinyl chloride	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	1330-20-7	
Surrogates									
Toluene-d8 (S)	105	%	80-120		1		08/08/14 17:39	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/08/14 17:39	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	75-129		1		08/08/14 17:39	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Soil
Pace Project No.: 60175335

QC Batch: MSV/63457 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60175335001, 60175335002, 60175335003, 60175335004

METHOD BLANK: 1422644 Matrix: Solid
Associated Lab Samples: 60175335001, 60175335002, 60175335003, 60175335004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/08/14 17:23	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/08/14 17:23	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/08/14 17:23	
1,1-Dichloroethane	ug/kg	ND	5.0	08/08/14 17:23	
1,1-Dichloroethene	ug/kg	ND	5.0	08/08/14 17:23	
1,2-Dichloroethane	ug/kg	ND	5.0	08/08/14 17:23	
1,2-Dichloropropane	ug/kg	ND	5.0	08/08/14 17:23	
2-Butanone (MEK)	ug/kg	ND	10.0	08/08/14 17:23	
2-Hexanone	ug/kg	ND	20.0	08/08/14 17:23	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	08/08/14 17:23	
Acetone	ug/kg	ND	20.0	08/08/14 17:23	
Benzene	ug/kg	ND	5.0	08/08/14 17:23	
Bromodichloromethane	ug/kg	ND	5.0	08/08/14 17:23	
Bromoform	ug/kg	ND	5.0	08/08/14 17:23	
Bromomethane	ug/kg	ND	5.0	08/08/14 17:23	
Carbon disulfide	ug/kg	ND	5.0	08/08/14 17:23	
Carbon tetrachloride	ug/kg	ND	5.0	08/08/14 17:23	
Chlorobenzene	ug/kg	ND	5.0	08/08/14 17:23	
Chloroethane	ug/kg	ND	5.0	08/08/14 17:23	
Chloroform	ug/kg	ND	5.0	08/08/14 17:23	
Chloromethane	ug/kg	ND	5.0	08/08/14 17:23	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/08/14 17:23	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/08/14 17:23	
Dibromochloromethane	ug/kg	ND	5.0	08/08/14 17:23	
Ethylbenzene	ug/kg	ND	5.0	08/08/14 17:23	
Methylene chloride	ug/kg	2.5J	5.0	08/08/14 17:23	
Styrene	ug/kg	ND	5.0	08/08/14 17:23	
Tetrachloroethene	ug/kg	ND	5.0	08/08/14 17:23	
Toluene	ug/kg	ND	5.0	08/08/14 17:23	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/08/14 17:23	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/08/14 17:23	
Trichloroethene	ug/kg	ND	5.0	08/08/14 17:23	
Vinyl chloride	ug/kg	ND	5.0	08/08/14 17:23	
Xylene (Total)	ug/kg	ND	5.0	08/08/14 17:23	
1,2-Dichloroethane-d4 (S)	%	101	75-129	08/08/14 17:23	
4-Bromofluorobenzene (S)	%	102	76-123	08/08/14 17:23	
Toluene-d8 (S)	%	105	80-120	08/08/14 17:23	

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Soil
Pace Project No.: 60175335

LABORATORY CONTROL SAMPLE: 1422645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	102	102	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	83.3	83	73-120	
1,1,2-Trichloroethane	ug/kg	100	86.6	87	76-120	
1,1-Dichloroethane	ug/kg	100	96.8	97	71-120	
1,1-Dichloroethene	ug/kg	100	101	101	76-130	
1,2-Dichloroethane	ug/kg	100	100	100	78-120	
1,2-Dichloropropane	ug/kg	100	101	101	80-120	
2-Butanone (MEK)	ug/kg	500	489	98	55-135	
2-Hexanone	ug/kg	500	423	85	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	484	97	71-128	
Acetone	ug/kg	500	514	103	43-144	
Benzene	ug/kg	100	96.7	97	80-120	
Bromodichloromethane	ug/kg	100	104	104	80-120	
Bromoform	ug/kg	100	93.9	94	75-124	
Bromomethane	ug/kg	100	151	151	38-150	L0
Carbon disulfide	ug/kg	100	110	110	58-137	
Carbon tetrachloride	ug/kg	100	103	103	75-140	
Chlorobenzene	ug/kg	100	88.3	88	80-120	
Chloroethane	ug/kg	100	102	102	65-127	
Chloroform	ug/kg	100	96.8	97	74-120	
Chloromethane	ug/kg	100	143	143	39-138	L0
cis-1,2-Dichloroethene	ug/kg	100	102	102	76-124	
cis-1,3-Dichloropropene	ug/kg	100	101	101	82-120	
Dibromochloromethane	ug/kg	100	93.8	94	80-124	
Ethylbenzene	ug/kg	100	85.9	86	80-120	
Methylene chloride	ug/kg	100	92.7	93	70-123	
Styrene	ug/kg	100	97.0	97	79-120	
Tetrachloroethene	ug/kg	100	87.6	88	78-128	
Toluene	ug/kg	100	96.2	96	79-120	
trans-1,2-Dichloroethene	ug/kg	100	97.0	97	76-124	
trans-1,3-Dichloropropene	ug/kg	100	90.9	91	80-124	
Trichloroethene	ug/kg	100	97.5	97	80-120	
Vinyl chloride	ug/kg	100	110	110	57-132	
Xylene (Total)	ug/kg	300	254	85	79-120	
1,2-Dichloroethane-d4 (S)	%			100	75-129	
4-Bromofluorobenzene (S)	%			104	76-123	
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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Soil
Pace Project No.: 60175335

QC Batch: PMST/9897 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60175335001, 60175335002, 60175335003

METHOD BLANK: 1422922 Matrix: Solid
Associated Lab Samples: 60175335001, 60175335002, 60175335003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/09/14 00:00	

SAMPLE DUPLICATE: 1422923

Parameter	Units	60175335001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.7	14.7	0	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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: Ft. Smith Soil
Pace Project No.: 60175335

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/63457

[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.

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ft. Smith Soil
Pace Project No.: 60175335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60175335001	**DP-40 (4.0 FT) - 082014**	EPA 8260	MSV/63457		
60175335002	**DP-40 (11.0 FT) - 082014**	EPA 8260	MSV/63457		
60175335003	**DP-40 (14.5 FT) - 082014**	EPA 8260	MSV/63457		
60175335004	**TRIP BLANK**	EPA 8260	MSV/63457		
60175335001	**DP-40 (4.0 FT) - 082014**	ASTM D2974	PMST/9897		
60175335002	**DP-40 (11.0 FT) - 082014**	ASTM D2974	PMST/9897		
60175335003	**DP-40 (14.5 FT) - 082014**	ASTM D2974	PMST/9897		

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO# : 60175335

60175335

Client Name: Enviro

Optional
Proj Due Date:
Proj Name:

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

Tracking #: 6113 3077 3530 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 ☑ zpac

Thermometer Used: T-239 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 4.0

Date and initials of person examining contents: at 8/8

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. Kits
Rush Turn Around Time requested:	☑Yes ☐No ☐N/A	7. 1 day
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: Includes date/time/ID/analyses Matrix: SL	☑Yes ☐No ☐N/A	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, TOC, O&G, WI-DRO (water), Phenolics	☐Yes ☑No	Initial when completed / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased):	☐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: AR

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] Date: 8/8

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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

1777351

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 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:	3433233A

Section C Invoice Information:

Attention:	Tamara Gleason
Company Name:	ENVIRON
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: ________

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N): 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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: 8260 Specific List	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60175335
1	DP-40(4.0FT)-082014	SL	G			8/7/14	1305		5	X						X	X	X		1(BR0) 1(DG4M) 1(DG9B) 2(VG9U) 001
2	DP-40(11.0FT)-082014	↓	↓				1325		↓	↓						↓	↓	↓		↓ 002
3	DP-40(14.5FT)-082014	↓	↓				1420		↓	↓						↓	↓	↓		↓ 003
4	Trip Blank 05-082014	WT							2	X								↓		2(VG9U) 004
5	Temp Blank	WT							1	X										
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
1-Day TAT! (24 hr.)	[signature] / ENVIRON	8/7/14	1800	[signature] / PASI	8/8	8:40	4.0	Y	Y	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/7/14

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

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 13, 2014

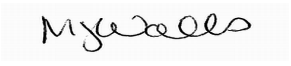
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on August 09, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: EDD, Environ_AR
Tamara Gleason, ENVIRON International Corporation

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60175425001	**DP-41 (4.0 FT) - 082014**	Solid	08/08/14 07:40	08/09/14 01:32
60175425002	**DP-41 (10.0 FT) - 082014**	Solid	08/08/14 08:05	08/09/14 01:32
60175425003	**DP-41 (14.0 FT) - 082014**	Solid	08/08/14 08:15	08/09/14 01:32
60175425004	**DP-42 (4.0 FT) - 082014**	Solid	08/08/14 10:20	08/09/14 01:32
60175425005	**DP-42 (8-0 FT) - 082014**	Solid	08/08/14 10:30	08/09/14 01:32
60175425006	**DP-42 (12.0 FT) - 082014**	Solid	08/08/14 10:40	08/09/14 01:32
60175425007	**TB06-20140808**	Solid	08/08/14 10:40	08/09/14 01:32

Pace Analytical Services, Inc.
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SAMPLE ANALYTE COUNT

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60175425001	**DP-41 (4.0 FT) - 082014**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175425002	**DP-41 (10.0 FT) - 082014**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175425003	**DP-41 (14.0 FT) - 082014**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175425004	**DP-42 (4.0 FT) - 082014**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175425005	**DP-42 (8-0 FT) - 082014**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175425006	**DP-42 (12.0 FT) - 082014**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175425007	**TB06-20140808**	EPA 8260	TJT	37

Pace Analytical Services, Inc.
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PROJECT NARRATIVE

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: August 13, 2014

General Information:
7 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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/63498

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1424042)
  - cis-1,3-Dichloropropene

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.

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Sample: DP-41 (4.0 FT) - 082014 **Lab ID: 60175425001** Collected: 08/08/14 07:40 Received: 08/09/14 01:32 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	24.0	12.0	1		08/11/14 16:22	67-64-1	
Benzene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	71-43-2	
Bromodichloromethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	75-27-4	
Bromoform	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	75-25-2	
Bromomethane	**3.1J**	ug/kg	6.0	3.0	1		08/11/14 16:22	74-83-9	
2-Butanone (MEK)	ND	ug/kg	12.0	6.0	1		08/11/14 16:22	78-93-3	
Carbon disulfide	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	56-23-5	
Chlorobenzene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	108-90-7	
Chloroethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	75-00-3	
Chloroform	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	67-66-3	
Chloromethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	74-87-3	
Dibromochloromethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	124-48-1	
1,1-Dichloroethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	10061-02-6	
Ethylbenzene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	100-41-4	
2-Hexanone	ND	ug/kg	24.0	12.0	1		08/11/14 16:22	591-78-6	
Methylene chloride	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	12.0	6.0	1		08/11/14 16:22	108-10-1	
Styrene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	79-34-5	
Tetrachloroethene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	127-18-4	
Toluene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	79-00-5	
Trichloroethene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	79-01-6	
Vinyl chloride	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	75-01-4	
Xylene (Total)	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/11/14 16:22	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		08/11/14 16:22	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	75-129		1		08/11/14 16:22	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**17.6**	%	0.50	0.50	1		08/11/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Sample: DP-41 (10.0 FT) - 082014 **Lab ID: 60175425002** Collected: 08/08/14 08:05 Received: 08/09/14 01:32 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	18.2	9.1	1		08/11/14 16:37	67-64-1	
Benzene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	71-43-2	
Bromodichloromethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	75-27-4	
Bromoform	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	75-25-2	
Bromomethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.1	4.6	1		08/11/14 16:37	78-93-3	
Carbon disulfide	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	108-90-7	
Chloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	75-00-3	
Chloroform	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	67-66-3	
Chloromethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	74-87-3	
Dibromochloromethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	100-41-4	
2-Hexanone	ND	ug/kg	18.2	9.1	1		08/11/14 16:37	591-78-6	
Methylene chloride	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.1	4.6	1		08/11/14 16:37	108-10-1	
Styrene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	127-18-4	
Toluene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	79-00-5	
Trichloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	79-01-6	
Vinyl chloride	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	75-01-4	
Xylene (Total)	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	80-120		1		08/11/14 16:37	2037-26-5	
4-Bromofluorobenzene (S)	97	%	76-123		1		08/11/14 16:37	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	75-129		1		08/11/14 16:37	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**15.0**	%	0.50	0.50	1		08/11/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Sample: DP-41 (14.0 FT) - 082014 **Lab ID: 60175425003** Collected: 08/08/14 08:15 Received: 08/09/14 01:32 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	18.1	9.1	1		08/11/14 16:53	67-64-1	
Benzene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	71-43-2	
Bromodichloromethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	75-27-4	
Bromoform	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	75-25-2	
Bromomethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.1	4.5	1		08/11/14 16:53	78-93-3	
Carbon disulfide	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	108-90-7	
Chloroethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	75-00-3	
Chloroform	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	67-66-3	
Chloromethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	74-87-3	
Dibromochloromethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	10061-02-6	
Ethylbenzene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	100-41-4	
2-Hexanone	ND	ug/kg	18.1	9.1	1		08/11/14 16:53	591-78-6	
Methylene chloride	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.1	4.5	1		08/11/14 16:53	108-10-1	
Styrene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	127-18-4	
Toluene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	79-00-5	
Trichloroethene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	79-01-6	
Vinyl chloride	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	75-01-4	
Xylene (Total)	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		08/11/14 16:53	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		08/11/14 16:53	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-129		1		08/11/14 16:53	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**14.4**	%	0.50	0.50	1		08/11/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Sample: DP-42 (4.0 FT) - 082014 **Lab ID: 60175425004** Collected: 08/08/14 10:20 Received: 08/09/14 01:32 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	19.6	9.8	1		08/11/14 17:08	67-64-1	
Benzene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	71-43-2	
Bromodichloromethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	75-27-4	
Bromoform	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	75-25-2	
Bromomethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.8	4.9	1		08/11/14 17:08	78-93-3	
Carbon disulfide	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	108-90-7	
Chloroethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	75-00-3	
Chloroform	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	67-66-3	
Chloromethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	74-87-3	
Dibromochloromethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	10061-02-6	
Ethylbenzene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	100-41-4	
2-Hexanone	ND	ug/kg	19.6	9.8	1		08/11/14 17:08	591-78-6	
Methylene chloride	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.8	4.9	1		08/11/14 17:08	108-10-1	
Styrene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	127-18-4	
Toluene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	79-00-5	
Trichloroethene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	79-01-6	
Vinyl chloride	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	75-01-4	
Xylene (Total)	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/11/14 17:08	2037-26-5	
4-Bromofluorobenzene (S)	96	%	76-123		1		08/11/14 17:08	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	75-129		1		08/11/14 17:08	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**17.8**	%	0.50	0.50	1		08/11/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Sample: DP-42 (8-0 FT) - 082014 **Lab ID: 60175425005** Collected: 08/08/14 10:30 Received: 08/09/14 01:32 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	18.5	9.2	1		08/11/14 17:23	67-64-1	
Benzene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	71-43-2	
Bromodichloromethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	75-27-4	
Bromoform	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	75-25-2	
Bromomethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.2	4.6	1		08/11/14 17:23	78-93-3	
Carbon disulfide	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	108-90-7	
Chloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	75-00-3	
Chloroform	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	67-66-3	
Chloromethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	74-87-3	
Dibromochloromethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	100-41-4	
2-Hexanone	ND	ug/kg	18.5	9.2	1		08/11/14 17:23	591-78-6	
Methylene chloride	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.2	4.6	1		08/11/14 17:23	108-10-1	
Styrene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	127-18-4	
Toluene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	79-00-5	
Trichloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	79-01-6	
Vinyl chloride	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	75-01-4	
Xylene (Total)	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/11/14 17:23	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/11/14 17:23	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-129		1		08/11/14 17:23	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**9.7**	%	0.50	0.50	1		08/11/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Sample: DP-42 (12.0 FT) - 082014 **Lab ID: 60175425006** Collected: 08/08/14 10:40 Received: 08/09/14 01:32 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	17.1	8.6	1		08/11/14 17:39	67-64-1	
Benzene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	71-43-2	
Bromodichloromethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	75-27-4	
Bromoform	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	75-25-2	
Bromomethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.6	4.3	1		08/11/14 17:39	78-93-3	
Carbon disulfide	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	108-90-7	
Chloroethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	75-00-3	
Chloroform	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	67-66-3	
Chloromethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	74-87-3	
Dibromochloromethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	100-41-4	
2-Hexanone	ND	ug/kg	17.1	8.6	1		08/11/14 17:39	591-78-6	
Methylene chloride	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.6	4.3	1		08/11/14 17:39	108-10-1	
Styrene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	127-18-4	
Toluene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	79-00-5	
Trichloroethene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	79-01-6	
Vinyl chloride	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	75-01-4	
Xylene (Total)	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	1330-20-7	
Surrogates									
Toluene-d8 (S)	99	%	80-120		1		08/11/14 17:39	2037-26-5	
4-Bromofluorobenzene (S)	99	%	76-123		1		08/11/14 17:39	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	75-129		1		08/11/14 17:39	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**10.9**	%	0.50	0.50	1		08/11/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Sample: TB06-20140808 **Lab ID: 60175425007** Collected: 08/08/14 10:40 Received: 08/09/14 01:32 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	20.0	10.0	1		08/12/14 10:08	67-64-1	
Benzene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	71-43-2	
Bromodichloromethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	75-27-4	
Bromoform	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	75-25-2	
Bromomethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.0	5.0	1		08/12/14 10:08	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	75-00-3	
Chloroform	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	67-66-3	
Chloromethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	74-87-3	
Dibromochloromethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	100-41-4	
2-Hexanone	ND	ug/kg	20.0	10.0	1		08/12/14 10:08	591-78-6	
Methylene chloride	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	5.0	1		08/12/14 10:08	108-10-1	
Styrene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	127-18-4	
Toluene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	79-00-5	
Trichloroethene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	79-01-6	
Vinyl chloride	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/12/14 10:08	2037-26-5	
4-Bromofluorobenzene (S)	97	%	76-123		1		08/12/14 10:08	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	75-129		1		08/12/14 10:08	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

QC Batch: MSV/63488 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60175425001, 60175425002, 60175425003, 60175425004, 60175425005, 60175425006

METHOD BLANK: 1423834 Matrix: Solid
Associated Lab Samples: 60175425001, 60175425002, 60175425003, 60175425004, 60175425005, 60175425006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/11/14 15:19	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/11/14 15:19	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/11/14 15:19	
1,1-Dichloroethane	ug/kg	ND	5.0	08/11/14 15:19	
1,1-Dichloroethene	ug/kg	ND	5.0	08/11/14 15:19	
1,2-Dichloroethane	ug/kg	ND	5.0	08/11/14 15:19	
1,2-Dichloropropane	ug/kg	ND	5.0	08/11/14 15:19	
2-Butanone (MEK)	ug/kg	ND	10.0	08/11/14 15:19	
2-Hexanone	ug/kg	ND	20.0	08/11/14 15:19	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	08/11/14 15:19	
Acetone	ug/kg	ND	20.0	08/11/14 15:19	
Benzene	ug/kg	ND	5.0	08/11/14 15:19	
Bromodichloromethane	ug/kg	ND	5.0	08/11/14 15:19	
Bromoform	ug/kg	ND	5.0	08/11/14 15:19	
Bromomethane	ug/kg	ND	5.0	08/11/14 15:19	
Carbon disulfide	ug/kg	ND	5.0	08/11/14 15:19	
Carbon tetrachloride	ug/kg	ND	5.0	08/11/14 15:19	
Chlorobenzene	ug/kg	ND	5.0	08/11/14 15:19	
Chloroethane	ug/kg	ND	5.0	08/11/14 15:19	
Chloroform	ug/kg	ND	5.0	08/11/14 15:19	
Chloromethane	ug/kg	ND	5.0	08/11/14 15:19	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/11/14 15:19	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/11/14 15:19	
Dibromochloromethane	ug/kg	ND	5.0	08/11/14 15:19	
Ethylbenzene	ug/kg	ND	5.0	08/11/14 15:19	
Methylene chloride	ug/kg	ND	5.0	08/11/14 15:19	
Styrene	ug/kg	ND	5.0	08/11/14 15:19	
Tetrachloroethene	ug/kg	ND	5.0	08/11/14 15:19	
Toluene	ug/kg	ND	5.0	08/11/14 15:19	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/11/14 15:19	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/11/14 15:19	
Trichloroethene	ug/kg	ND	5.0	08/11/14 15:19	
Vinyl chloride	ug/kg	ND	5.0	08/11/14 15:19	
Xylene (Total)	ug/kg	ND	5.0	08/11/14 15:19	
1,2-Dichloroethane-d4 (S)	%	99	75-129	08/11/14 15:19	
4-Bromofluorobenzene (S)	%	100	76-123	08/11/14 15:19	
Toluene-d8 (S)	%	100	80-120	08/11/14 15:19	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

LABORATORY CONTROL SAMPLE: 1423835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	94.6	95	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	89.7	90	73-120	
1,1,2-Trichloroethane	ug/kg	100	88.9	89	76-120	
1,1-Dichloroethane	ug/kg	100	81.8	82	71-120	
1,1-Dichloroethene	ug/kg	100	89.5	89	76-130	
1,2-Dichloroethane	ug/kg	100	93.8	94	78-120	
1,2-Dichloropropane	ug/kg	100	93.0	93	80-120	
2-Butanone (MEK)	ug/kg	500	428	86	55-135	
2-Hexanone	ug/kg	500	461	92	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	462	92	71-128	
Acetone	ug/kg	500	400	80	43-144	
Benzene	ug/kg	100	88.9	89	80-120	
Bromodichloromethane	ug/kg	100	94.1	94	80-120	
Bromoform	ug/kg	100	91.7	92	75-124	
Bromomethane	ug/kg	100	80.9	81	38-150	
Carbon disulfide	ug/kg	100	94.2	94	58-137	
Carbon tetrachloride	ug/kg	100	89.6	90	75-140	
Chlorobenzene	ug/kg	100	90.4	90	80-120	
Chloroethane	ug/kg	100	91.7	92	65-127	
Chloroform	ug/kg	100	83.9	84	74-120	
Chloromethane	ug/kg	100	92.6	93	39-138	
cis-1,2-Dichloroethene	ug/kg	100	96.1	96	76-124	
cis-1,3-Dichloropropene	ug/kg	100	84.6	85	82-120	
Dibromochloromethane	ug/kg	100	92.9	93	80-124	
Ethylbenzene	ug/kg	100	88.6	89	80-120	
Methylene chloride	ug/kg	100	72.0	72	70-123	
Styrene	ug/kg	100	91.3	91	79-120	
Tetrachloroethene	ug/kg	100	86.5	87	78-128	
Toluene	ug/kg	100	91.6	92	79-120	
trans-1,2-Dichloroethene	ug/kg	100	86.5	86	76-124	
trans-1,3-Dichloropropene	ug/kg	100	85.3	85	80-124	
Trichloroethene	ug/kg	100	92.1	92	80-120	
Vinyl chloride	ug/kg	100	83.5	83	57-132	
Xylene (Total)	ug/kg	300	266	89	79-120	
1,2-Dichloroethane-d4 (S)	%			96	75-129	
4-Bromofluorobenzene (S)	%			96	76-123	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1423836 1423837

Parameter	Units	60175350006 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/kg	ND	101	101	81.6	78.2	81	77	21-144	4	43	
1,1,2,2-Tetrachloroethane	ug/kg	ND	101	101	59.4	50.2	59	50	10-151	17	46	
1,1,2-Trichloroethane	ug/kg	ND	101	101	75.2	72.4	74	71	10-140	4	46	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1423836 1423837

Parameter	Units	60175350006 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/kg	ND	101	101	68.0	68.9	67	68	19-137	1	43	
1,1-Dichloroethene	ug/kg	ND	101	101	80.7	75.5	80	75	27-143	7	41	
1,2-Dichloroethane	ug/kg	ND	101	101	73.9	69.7	73	69	21-147	6	38	
1,2-Dichloropropane	ug/kg	ND	101	101	74.7	76.4	74	75	15-145	2	43	
2-Butanone (MEK)	ug/kg	ND	506	506	343	355	68	70	10-160	3	50	
2-Hexanone	ug/kg	ND	506	506	425	403	84	80	10-160	5	50	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	506	506	380	373	75	74	10-152	2	47	
Acetone	ug/kg	ND	506	506	333	322	66	64	10-160	3	49	
Benzene	ug/kg	ND	101	101	75.3	75.2	74	74	22-144	0	38	
Bromodichloromethane	ug/kg	ND	101	101	78.0	75.9	77	75	10-143	3	42	
Bromoform	ug/kg	ND	101	101	72.1	73.1	71	72	10-145	1	44	
Bromomethane	ug/kg	ND	101	101	59.3	60.8	59	60	10-137	3	47	
Carbon disulfide	ug/kg	ND	101	101	80.5	104	79	103	10-142	26	44	
Carbon tetrachloride	ug/kg	ND	101	101	77.3	77.9	76	77	15-153	1	45	
Chlorobenzene	ug/kg	ND	101	101	72.9	73.1	72	72	10-145	0	46	
Chloroethane	ug/kg	ND	101	101	69.6	71.2	69	70	17-134	2	42	
Chloroform	ug/kg	ND	101	101	72.1	67.1	71	66	17-138	7	44	
Chloromethane	ug/kg	ND	101	101	55.1	43.1	54	43	10-128	24	39	
cis-1,2-Dichloroethene	ug/kg	ND	101	101	80.5	80.1	80	79	17-140	1	46	
cis-1,3-Dichloropropene	ug/kg	ND	101	101	70.1	69.8	69	69	10-142	0	43	
Dibromochloromethane	ug/kg	ND	101	101	73.9	74.4	73	73	10-149	1	42	
Ethylbenzene	ug/kg	ND	101	101	79.2	79.2	78	78	10-154	0	42	
Methylene chloride	ug/kg	7.4	101	101	59.3	60.0	51	52	15-140	1	46	
Styrene	ug/kg	ND	101	101	76.4	72.8	75	72	10-142	5	44	
Tetrachloroethene	ug/kg	ND	101	101	77.9	76.8	77	76	10-150	1	48	
Toluene	ug/kg	ND	101	101	77.3	77.2	76	76	11-150	0	40	
trans-1,2-Dichloroethene	ug/kg	ND	101	101	76.8	73.2	76	72	20-140	5	42	
trans-1,3-Dichloropropene	ug/kg	ND	101	101	68.8	68.0	68	67	10-149	1	41	
Trichloroethene	ug/kg	ND	101	101	99.3	101	98	100	14-146	2	45	
Vinyl chloride	ug/kg	ND	101	101	74.7	71.9	74	71	19-131	4	37	
Xylene (Total)	ug/kg	ND	303	303	224	223	74	74	10-154	0	41	
1,2-Dichloroethane-d4 (S)	%						100	100	75-129			
4-Bromofluorobenzene (S)	%						98	98	76-123			
Toluene-d8 (S)	%						100	101	80-120			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

QC Batch: MSV/63498
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60175425007

METHOD BLANK: 1424041
Matrix: Solid
Associated Lab Samples: 60175425007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,1-Dichloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,1-Dichloroethene	ug/kg	ND	5.0	08/12/14 09:37	
1,2-Dichloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,2-Dichloropropane	ug/kg	ND	5.0	08/12/14 09:37	
2-Butanone (MEK)	ug/kg	ND	10.0	08/12/14 09:37	
2-Hexanone	ug/kg	ND	20.0	08/12/14 09:37	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	08/12/14 09:37	
Acetone	ug/kg	ND	20.0	08/12/14 09:37	
Benzene	ug/kg	ND	5.0	08/12/14 09:37	
Bromodichloromethane	ug/kg	ND	5.0	08/12/14 09:37	
Bromoform	ug/kg	ND	5.0	08/12/14 09:37	
Bromomethane	ug/kg	ND	5.0	08/12/14 09:37	
Carbon disulfide	ug/kg	ND	5.0	08/12/14 09:37	
Carbon tetrachloride	ug/kg	ND	5.0	08/12/14 09:37	
Chlorobenzene	ug/kg	ND	5.0	08/12/14 09:37	
Chloroethane	ug/kg	ND	5.0	08/12/14 09:37	
Chloroform	ug/kg	ND	5.0	08/12/14 09:37	
Chloromethane	ug/kg	ND	5.0	08/12/14 09:37	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/12/14 09:37	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/12/14 09:37	
Dibromochloromethane	ug/kg	ND	5.0	08/12/14 09:37	
Ethylbenzene	ug/kg	ND	5.0	08/12/14 09:37	
Methylene chloride	ug/kg	ND	5.0	08/12/14 09:37	
Styrene	ug/kg	ND	5.0	08/12/14 09:37	
Tetrachloroethene	ug/kg	ND	5.0	08/12/14 09:37	
Toluene	ug/kg	ND	5.0	08/12/14 09:37	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/12/14 09:37	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/12/14 09:37	
Trichloroethene	ug/kg	ND	5.0	08/12/14 09:37	
Vinyl chloride	ug/kg	ND	5.0	08/12/14 09:37	
Xylene (Total)	ug/kg	ND	5.0	08/12/14 09:37	
1,2-Dichloroethane-d4 (S)	%	95	75-129	08/12/14 09:37	
4-Bromofluorobenzene (S)	%	98	76-123	08/12/14 09:37	
Toluene-d8 (S)	%	101	80-120	08/12/14 09:37	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

LABORATORY CONTROL SAMPLE: 1424042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	87.9	88	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	90.1	90	73-120	
1,1,2-Trichloroethane	ug/kg	100	91.4	91	76-120	
1,1-Dichloroethane	ug/kg	100	99.4	99	71-120	
1,1-Dichloroethene	ug/kg	100	102	102	76-130	
1,2-Dichloroethane	ug/kg	100	81.6	82	78-120	
1,2-Dichloropropane	ug/kg	100	86.5	87	80-120	
2-Butanone (MEK)	ug/kg	500	393	79	55-135	
2-Hexanone	ug/kg	500	447	89	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	436	87	71-128	
Acetone	ug/kg	500	495	99	43-144	
Benzene	ug/kg	100	85.4	85	80-120	
Bromodichloromethane	ug/kg	100	88.4	88	80-120	
Bromoform	ug/kg	100	90.4	90	75-124	
Bromomethane	ug/kg	100	74.7	75	38-150	
Carbon disulfide	ug/kg	100	95.0	95	58-137	
Carbon tetrachloride	ug/kg	100	84.2	84	75-140	
Chlorobenzene	ug/kg	100	89.1	89	80-120	
Chloroethane	ug/kg	100	76.9	77	65-127	
Chloroform	ug/kg	100	77.8	78	74-120	
Chloromethane	ug/kg	100	41.1	41	39-138	
cis-1,2-Dichloroethene	ug/kg	100	88.7	89	76-124	
cis-1,3-Dichloropropene	ug/kg	100	80.7	81	82-120	L0
Dibromochloromethane	ug/kg	100	89.1	89	80-124	
Ethylbenzene	ug/kg	100	88.2	88	80-120	
Methylene chloride	ug/kg	100	83.5	83	70-123	
Styrene	ug/kg	100	89.3	89	79-120	
Tetrachloroethene	ug/kg	100	87.9	88	78-128	
Toluene	ug/kg	100	84.7	85	79-120	
trans-1,2-Dichloroethene	ug/kg	100	98.2	98	76-124	
trans-1,3-Dichloropropene	ug/kg	100	85.2	85	80-124	
Trichloroethene	ug/kg	100	88.5	88	80-120	
Vinyl chloride	ug/kg	100	72.5	72	57-132	
Xylene (Total)	ug/kg	300	264	88	79-120	
1,2-Dichloroethane-d4 (S)	%			91	75-129	
4-Bromofluorobenzene (S)	%			97	76-123	
Toluene-d8 (S)	%			100	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

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

QC Batch: PMST/9898 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60175425001, 60175425002, 60175425003, 60175425004, 60175425005, 60175425006

METHOD BLANK: 1423546 Matrix: Solid
Associated Lab Samples: 60175425001, 60175425002, 60175425003, 60175425004, 60175425005, 60175425006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/11/14 00:00	

SAMPLE DUPLICATE: 1423547

Parameter	Units	60175425001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.6	16.6	6	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

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

QUALIFIERS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60175425001	**DP-41 (4.0 FT) - 082014**	EPA 8260	MSV/63488		
60175425002	**DP-41 (10.0 FT) - 082014**	EPA 8260	MSV/63488		
60175425003	**DP-41 (14.0 FT) - 082014**	EPA 8260	MSV/63488		
60175425004	**DP-42 (4.0 FT) - 082014**	EPA 8260	MSV/63488		
60175425005	**DP-42 (8-0 FT) - 082014**	EPA 8260	MSV/63488		
60175425006	**DP-42 (12.0 FT) - 082014**	EPA 8260	MSV/63488		
60175425007	**TB06-20140808**	EPA 8260	MSV/63498		
60175425001	**DP-41 (4.0 FT) - 082014**	ASTM D2974	PMST/9898		
60175425002	**DP-41 (10.0 FT) - 082014**	ASTM D2974	PMST/9898		
60175425003	**DP-41 (14.0 FT) - 082014**	ASTM D2974	PMST/9898		
60175425004	**DP-42 (4.0 FT) - 082014**	ASTM D2974	PMST/9898		
60175425005	**DP-42 (8-0 FT) - 082014**	ASTM D2974	PMST/9898		
60175425006	**DP-42 (12.0 FT) - 082014**	ASTM D2974	PMST/9898		

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Sample Condition Upon Receipt

WO#: 60175425

60175425

Optional
Proj Due Date:
Proj Name:

Client Name: Environ

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☑ via

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 ☑ zpac

Thermometer Used: T-239 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: AH 8/9

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. Kits
Rush Turn Around Time requested:	☑Yes ☐No ☐N/A	7. 1 day
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 AH 8/9	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: SL	☑Yes ☐No ☐N/A	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, TOC, O&G, WI-DRO (water), Phenolics	☐Yes ☑No	Initial when completed / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): 102813-3	☑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: AL

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 8/11/17 8/11/17

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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		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:	MJ Walls
Requested Due Date/TAT:	1-DAY TAT	Project Number:		Pace Profile #:	7444 water, 7709 soil

REGULATORY AGENCY

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

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): N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	TIME	COMPOSITE END/GRAB DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	8260 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60175425
1	~~DP-42~~ DP-41 (4.0FT)-082014	SL	G			8/8/14	0740		5	X						X	X		X		1(BP3U)1(DEAM)1(DG9B)2(VG9U) a1
2	DP-41 (10.0FT)-082014						0805														a2
3	DP-41 (14.0FT)-082014						0815														a3
4	DP-42 (4.0FT)-082014						1020														a4
5	DP-42 (8.0FT)-082014						1030														a5
6	DP-42 (12.0FT)-082014						1040														a6
7	Trip Blank H06-082014	WT							2												a7
8	Temp Blank	WT							1												
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
1-DAY TAT! (24 hr.)	[signature]	8/8/14	1945	[signature] / PASI	8/9	0132	2.2	Y	Y	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: Nick Zurweller

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/8/14

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

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 13, 2014

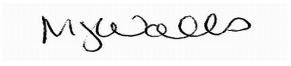
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60175525

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: EDD, Environ_AR
Tamara Gleason, ENVIRON International Corporation

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
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CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60175525

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60175525001	**DP-43-SL (4.0 FT) - 20140811**	Solid	08/11/14 09:15	08/12/14 01:30
60175525002	**DP-43-SL (10.0 FT) - 20140811**	Solid	08/11/14 09:40	08/12/14 01:30
60175525003	**DP-43-SL (19.0 FT) - 20140811**	Solid	08/11/14 10:07	08/12/14 01:30
60175525004	**DP-44-SL (4.0 FT) - 20140811**	Solid	08/11/14 11:09	08/12/14 01:30
60175525005	**DP-44-SL (11.0 FT) - 20140811**	Solid	08/11/14 11:28	08/12/14 01:30
60175525006	**DP-44-SL (18.0 FT) - 20140811**	Solid	08/11/14 11:41	08/12/14 01:30
60175525007	**DP-44-SL (21.5 FT) - 20140811**	Solid	08/11/14 12:07	08/12/14 01:30
60175525008	**DP-45-SL (4.0 FT) - 20140811**	Solid	08/11/14 14:49	08/12/14 01:30
60175525009	**DP-45-SL (12.0 FT) - 20140811**	Solid	08/11/14 15:10	08/12/14 01:30
60175525010	**DP-45-SL (18.0 FT) - 20140811**	Solid	08/11/14 15:25	08/12/14 01:30

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60175525

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60175525001	**DP-43-SL (4.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525002	**DP-43-SL (10.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525003	**DP-43-SL (19.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525004	**DP-44-SL (4.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525005	**DP-44-SL (11.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525006	**DP-44-SL (18.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525007	**DP-44-SL (21.5 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525008	**DP-45-SL (4.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525009	**DP-45-SL (12.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525010	**DP-45-SL (18.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60175525

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: August 13, 2014

General Information:
10 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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/63498

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1424042)
  - cis-1,3-Dichloropropene

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.: 60175525

Sample: DP-43-SL (4.0 FT) - 20140811 **Lab ID: 60175525001** Collected: 08/11/14 09:15 Received: 08/12/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	24.3	12.1	1		08/12/14 12:27	67-64-1	
Benzene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	71-43-2	
Bromodichloromethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	75-27-4	
Bromoform	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	75-25-2	
Bromomethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	12.1	6.1	1		08/12/14 12:27	78-93-3	
Carbon disulfide	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	56-23-5	
Chlorobenzene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	108-90-7	
Chloroethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	75-00-3	
Chloroform	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	67-66-3	
Chloromethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	74-87-3	
Dibromochloromethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	124-48-1	
1,1-Dichloroethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	10061-02-6	
Ethylbenzene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	100-41-4	
2-Hexanone	ND	ug/kg	24.3	12.1	1		08/12/14 12:27	591-78-6	
Methylene chloride	**3.3J**	ug/kg	6.1	3.0	1		08/12/14 12:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	12.1	6.1	1		08/12/14 12:27	108-10-1	
Styrene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	79-34-5	
Tetrachloroethene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	127-18-4	
Toluene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	79-00-5	
Trichloroethene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	79-01-6	
Vinyl chloride	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	75-01-4	
Xylene (Total)	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	80-120		1		08/12/14 12:27	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		08/12/14 12:27	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-129		1		08/12/14 12:27	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**22.1**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-43-SL (10.0 FT) - 20140811 **Lab ID: 60175525002** Collected: 08/11/14 09:40 Received: 08/12/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	17.8	8.9	1		08/12/14 12:42	67-64-1	
Benzene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	71-43-2	
Bromodichloromethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	75-27-4	
Bromoform	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	75-25-2	
Bromomethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.9	4.4	1		08/12/14 12:42	78-93-3	
Carbon disulfide	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	108-90-7	
Chloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	75-00-3	
Chloroform	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	67-66-3	
Chloromethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	74-87-3	
Dibromochloromethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	100-41-4	
2-Hexanone	ND	ug/kg	17.8	8.9	1		08/12/14 12:42	591-78-6	
Methylene chloride	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.9	4.4	1		08/12/14 12:42	108-10-1	
Styrene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	127-18-4	
Toluene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	79-00-5	
Trichloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	79-01-6	
Vinyl chloride	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	75-01-4	
Xylene (Total)	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/12/14 12:42	2037-26-5	
4-Bromofluorobenzene (S)	98	%	76-123		1		08/12/14 12:42	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-129		1		08/12/14 12:42	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**13.7**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-43-SL (19.0 FT) - 20140811 **Lab ID: 60175525003** Collected: 08/11/14 10:07 Received: 08/12/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	16.7	8.4	1		08/12/14 12:58	67-64-1	
Benzene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	71-43-2	
Bromodichloromethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	75-27-4	
Bromoform	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	75-25-2	
Bromomethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.4	4.2	1		08/12/14 12:58	78-93-3	
Carbon disulfide	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	56-23-5	
Chlorobenzene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	108-90-7	
Chloroethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	75-00-3	
Chloroform	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	67-66-3	
Chloromethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	74-87-3	
Dibromochloromethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	10061-02-6	
Ethylbenzene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	100-41-4	
2-Hexanone	ND	ug/kg	16.7	8.4	1		08/12/14 12:58	591-78-6	
Methylene chloride	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.4	4.2	1		08/12/14 12:58	108-10-1	
Styrene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	79-34-5	
Tetrachloroethene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	127-18-4	
Toluene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	79-00-5	
Trichloroethene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	79-01-6	
Vinyl chloride	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	75-01-4	
Xylene (Total)	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/12/14 12:58	2037-26-5	
4-Bromofluorobenzene (S)	99	%	76-123		1		08/12/14 12:58	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	75-129		1		08/12/14 12:58	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**12.9**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-44-SL (4.0 FT) - 20140811 **Lab ID: 60175525004** Collected: 08/11/14 11:09 Received: 08/12/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	23.3	11.7	1		08/12/14 13:13	67-64-1	
Benzene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	71-43-2	
Bromodichloromethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	75-27-4	
Bromoform	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	75-25-2	
Bromomethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	11.7	5.8	1		08/12/14 13:13	78-93-3	
Carbon disulfide	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	108-90-7	
Chloroethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	75-00-3	
Chloroform	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	67-66-3	
Chloromethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	74-87-3	
Dibromochloromethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	10061-02-6	
Ethylbenzene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	100-41-4	
2-Hexanone	ND	ug/kg	23.3	11.7	1		08/12/14 13:13	591-78-6	
Methylene chloride	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.7	5.8	1		08/12/14 13:13	108-10-1	
Styrene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	79-34-5	
Tetrachloroethene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	127-18-4	
Toluene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	79-00-5	
Trichloroethene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	79-01-6	
Vinyl chloride	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	75-01-4	
Xylene (Total)	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/12/14 13:13	2037-26-5	
4-Bromofluorobenzene (S)	103	%	76-123		1		08/12/14 13:13	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-129		1		08/12/14 13:13	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**22.1**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-44-SL (11.0 FT) - 20140811 **Lab ID: 60175525005** Collected: 08/11/14 11:28 Received: 08/12/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	18.4	9.2	1		08/12/14 13:29	67-64-1	
Benzene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	71-43-2	
Bromodichloromethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	75-27-4	
Bromoform	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	75-25-2	
Bromomethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.2	4.6	1		08/12/14 13:29	78-93-3	
Carbon disulfide	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	108-90-7	
Chloroethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	75-00-3	
Chloroform	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	67-66-3	
Chloromethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	74-87-3	
Dibromochloromethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	100-41-4	
2-Hexanone	ND	ug/kg	18.4	9.2	1		08/12/14 13:29	591-78-6	
Methylene chloride	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.2	4.6	1		08/12/14 13:29	108-10-1	
Styrene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	127-18-4	
Toluene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	79-00-5	
Trichloroethene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	79-01-6	
Vinyl chloride	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	75-01-4	
Xylene (Total)	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	1330-20-7	
Surrogates									
Toluene-d8 (S)	99	%	80-120		1		08/12/14 13:29	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		08/12/14 13:29	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	75-129		1		08/12/14 13:29	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**18.3**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-44-SL (18.0 FT) - 20140811 **Lab ID: 60175525006** Collected: 08/11/14 11:41 Received: 08/12/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	19.6	9.8	1		08/12/14 13:44	67-64-1	
Benzene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	71-43-2	
Bromodichloromethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	75-27-4	
Bromoform	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	75-25-2	
Bromomethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.8	4.9	1		08/12/14 13:44	78-93-3	
Carbon disulfide	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	108-90-7	
Chloroethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	75-00-3	
Chloroform	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	67-66-3	
Chloromethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	74-87-3	
Dibromochloromethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	10061-02-6	
Ethylbenzene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	100-41-4	
2-Hexanone	ND	ug/kg	19.6	9.8	1		08/12/14 13:44	591-78-6	
Methylene chloride	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.8	4.9	1		08/12/14 13:44	108-10-1	
Styrene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	127-18-4	
Toluene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	79-00-5	
Trichloroethene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	79-01-6	
Vinyl chloride	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	75-01-4	
Xylene (Total)	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/12/14 13:44	2037-26-5	
4-Bromofluorobenzene (S)	99	%	76-123		1		08/12/14 13:44	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-129		1		08/12/14 13:44	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**8.4**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-44-SL (21.5 FT) - 20140811 **Lab ID: 60175525007** Collected: 08/11/14 12:07 Received: 08/12/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	20.4	10.2	1		08/12/14 14:00	67-64-1	
Benzene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	71-43-2	
Bromodichloromethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	75-27-4	
Bromoform	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	75-25-2	
Bromomethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.2	5.1	1		08/12/14 14:00	78-93-3	
Carbon disulfide	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	56-23-5	
Chlorobenzene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	108-90-7	
Chloroethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	75-00-3	
Chloroform	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	67-66-3	
Chloromethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	74-87-3	
Dibromochloromethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	10061-02-6	
Ethylbenzene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	100-41-4	
2-Hexanone	ND	ug/kg	20.4	10.2	1		08/12/14 14:00	591-78-6	
Methylene chloride	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.2	5.1	1		08/12/14 14:00	108-10-1	
Styrene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	79-34-5	
Tetrachloroethene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	127-18-4	
Toluene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	79-00-5	
Trichloroethene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	79-01-6	
Vinyl chloride	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	75-01-4	
Xylene (Total)	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		08/12/14 14:00	2037-26-5	
4-Bromofluorobenzene (S)	97	%	76-123		1		08/12/14 14:00	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-129		1		08/12/14 14:00	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**11.4**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-45-SL (4.0 FT) - 20140811 **Lab ID: 60175525008** Collected: 08/11/14 14:49 Received: 08/12/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	**37.1**	ug/kg	17.7	8.9	1		08/12/14 14:15	67-64-1	
Benzene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	71-43-2	
Bromodichloromethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	75-27-4	
Bromoform	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	75-25-2	
Bromomethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.9	4.4	1		08/12/14 14:15	78-93-3	
Carbon disulfide	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	108-90-7	
Chloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	75-00-3	
Chloroform	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	67-66-3	
Chloromethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	74-87-3	
Dibromochloromethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	100-41-4	
2-Hexanone	ND	ug/kg	17.7	8.9	1		08/12/14 14:15	591-78-6	
Methylene chloride	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.9	4.4	1		08/12/14 14:15	108-10-1	
Styrene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	127-18-4	
Toluene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	79-00-5	
Trichloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	79-01-6	
Vinyl chloride	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	75-01-4	
Xylene (Total)	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/12/14 14:15	2037-26-5	
4-Bromofluorobenzene (S)	102	%	76-123		1		08/12/14 14:15	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	75-129		1		08/12/14 14:15	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**14.3**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-45-SL (12.0 FT) - 20140811 **Lab ID: 60175525009** Collected: 08/11/14 15:10 Received: 08/12/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	19.7	9.8	1		08/12/14 14:31	67-64-1	
Benzene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	71-43-2	
Bromodichloromethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	75-27-4	
Bromoform	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	75-25-2	
Bromomethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.8	4.9	1		08/12/14 14:31	78-93-3	
Carbon disulfide	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	108-90-7	
Chloroethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	75-00-3	
Chloroform	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	67-66-3	
Chloromethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	74-87-3	
Dibromochloromethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	10061-02-6	
Ethylbenzene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	100-41-4	
2-Hexanone	ND	ug/kg	19.7	9.8	1		08/12/14 14:31	591-78-6	
Methylene chloride	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.8	4.9	1		08/12/14 14:31	108-10-1	
Styrene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	127-18-4	
Toluene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	79-00-5	
Trichloroethene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	79-01-6	
Vinyl chloride	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	75-01-4	
Xylene (Total)	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	80-120		1		08/12/14 14:31	2037-26-5	
4-Bromofluorobenzene (S)	98	%	76-123		1		08/12/14 14:31	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-129		1		08/12/14 14:31	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**16.4**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-45-SL (18.0 FT) - 20140811 **Lab ID: 60175525010** Collected: 08/11/14 15:25 Received: 08/12/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	18.0	9.0	1		08/12/14 14:46	67-64-1	
Benzene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	71-43-2	
Bromodichloromethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	75-27-4	
Bromoform	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	75-25-2	
Bromomethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.0	4.5	1		08/12/14 14:46	78-93-3	
Carbon disulfide	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	108-90-7	
Chloroethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	75-00-3	
Chloroform	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	67-66-3	
Chloromethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	74-87-3	
Dibromochloromethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	10061-02-6	
Ethylbenzene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	100-41-4	
2-Hexanone	ND	ug/kg	18.0	9.0	1		08/12/14 14:46	591-78-6	
Methylene chloride	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.0	4.5	1		08/12/14 14:46	108-10-1	
Styrene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	127-18-4	
Toluene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	79-00-5	
Trichloroethene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	79-01-6	
Vinyl chloride	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	75-01-4	
Xylene (Total)	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/12/14 14:46	2037-26-5	
4-Bromofluorobenzene (S)	102	%	76-123		1		08/12/14 14:46	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	75-129		1		08/12/14 14:46	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**12.5**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60175525

QC Batch: MSV/63498 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60175525001, 60175525002, 60175525003, 60175525004, 60175525005, 60175525006, 60175525007, 60175525008, 60175525009, 60175525010

METHOD BLANK: 1424041 Matrix: Solid
Associated Lab Samples: 60175525001, 60175525002, 60175525003, 60175525004, 60175525005, 60175525006, 60175525007, 60175525008, 60175525009, 60175525010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,1-Dichloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,1-Dichloroethene	ug/kg	ND	5.0	08/12/14 09:37	
1,2-Dichloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,2-Dichloropropane	ug/kg	ND	5.0	08/12/14 09:37	
2-Butanone (MEK)	ug/kg	ND	10.0	08/12/14 09:37	
2-Hexanone	ug/kg	ND	20.0	08/12/14 09:37	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	08/12/14 09:37	
Acetone	ug/kg	ND	20.0	08/12/14 09:37	
Benzene	ug/kg	ND	5.0	08/12/14 09:37	
Bromodichloromethane	ug/kg	ND	5.0	08/12/14 09:37	
Bromoform	ug/kg	ND	5.0	08/12/14 09:37	
Bromomethane	ug/kg	ND	5.0	08/12/14 09:37	
Carbon disulfide	ug/kg	ND	5.0	08/12/14 09:37	
Carbon tetrachloride	ug/kg	ND	5.0	08/12/14 09:37	
Chlorobenzene	ug/kg	ND	5.0	08/12/14 09:37	
Chloroethane	ug/kg	ND	5.0	08/12/14 09:37	
Chloroform	ug/kg	ND	5.0	08/12/14 09:37	
Chloromethane	ug/kg	ND	5.0	08/12/14 09:37	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/12/14 09:37	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/12/14 09:37	
Dibromochloromethane	ug/kg	ND	5.0	08/12/14 09:37	
Ethylbenzene	ug/kg	ND	5.0	08/12/14 09:37	
Methylene chloride	ug/kg	ND	5.0	08/12/14 09:37	
Styrene	ug/kg	ND	5.0	08/12/14 09:37	
Tetrachloroethene	ug/kg	ND	5.0	08/12/14 09:37	
Toluene	ug/kg	ND	5.0	08/12/14 09:37	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/12/14 09:37	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/12/14 09:37	
Trichloroethene	ug/kg	ND	5.0	08/12/14 09:37	
Vinyl chloride	ug/kg	ND	5.0	08/12/14 09:37	
Xylene (Total)	ug/kg	ND	5.0	08/12/14 09:37	
1,2-Dichloroethane-d4 (S)	%	95	75-129	08/12/14 09:37	
4-Bromofluorobenzene (S)	%	98	76-123	08/12/14 09:37	
Toluene-d8 (S)	%	101	80-120	08/12/14 09:37	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60175525

LABORATORY CONTROL SAMPLE: 1424042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	87.9	88	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	90.1	90	73-120	
1,1,2-Trichloroethane	ug/kg	100	91.4	91	76-120	
1,1-Dichloroethane	ug/kg	100	99.4	99	71-120	
1,1-Dichloroethene	ug/kg	100	102	102	76-130	
1,2-Dichloroethane	ug/kg	100	81.6	82	78-120	
1,2-Dichloropropane	ug/kg	100	86.5	87	80-120	
2-Butanone (MEK)	ug/kg	500	393	79	55-135	
2-Hexanone	ug/kg	500	447	89	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	436	87	71-128	
Acetone	ug/kg	500	495	99	43-144	
Benzene	ug/kg	100	85.4	85	80-120	
Bromodichloromethane	ug/kg	100	88.4	88	80-120	
Bromoform	ug/kg	100	90.4	90	75-124	
Bromomethane	ug/kg	100	74.7	75	38-150	
Carbon disulfide	ug/kg	100	95.0	95	58-137	
Carbon tetrachloride	ug/kg	100	84.2	84	75-140	
Chlorobenzene	ug/kg	100	89.1	89	80-120	
Chloroethane	ug/kg	100	76.9	77	65-127	
Chloroform	ug/kg	100	77.8	78	74-120	
Chloromethane	ug/kg	100	41.1	41	39-138	
cis-1,2-Dichloroethene	ug/kg	100	88.7	89	76-124	
cis-1,3-Dichloropropene	ug/kg	100	80.7	81	82-120	L0
Dibromochloromethane	ug/kg	100	89.1	89	80-124	
Ethylbenzene	ug/kg	100	88.2	88	80-120	
Methylene chloride	ug/kg	100	83.5	83	70-123	
Styrene	ug/kg	100	89.3	89	79-120	
Tetrachloroethene	ug/kg	100	87.9	88	78-128	
Toluene	ug/kg	100	84.7	85	79-120	
trans-1,2-Dichloroethene	ug/kg	100	98.2	98	76-124	
trans-1,3-Dichloropropene	ug/kg	100	85.2	85	80-124	
Trichloroethene	ug/kg	100	88.5	88	80-120	
Vinyl chloride	ug/kg	100	72.5	72	57-132	
Xylene (Total)	ug/kg	300	264	88	79-120	
1,2-Dichloroethane-d4 (S)	%			91	75-129	
4-Bromofluorobenzene (S)	%			97	76-123	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1424051 1424052

Parameter	Units	60175350001 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/kg	ND	5950	5950	5940	5590	100	94	21-144	6	43	
1,1,2,2-Tetrachloroethane	ug/kg	636	5950	5950	6600	6190	100	93	10-151	6	46	
1,1,2-Trichloroethane	ug/kg	595	5950	5950	6340	6180	97	94	10-140	2	46	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60175525

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1424051 1424052

Parameter	Units	60175350001 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/kg	ND	5950	5950	6900	6240	116	105	19-137	10	43	
1,1-Dichloroethene	ug/kg	ND	5950	5950	6550	6170	110	104	27-143	6	41	
1,2-Dichloroethane	ug/kg	312	5950	5950	5490	5290	87	84	21-147	4	38	
1,2-Dichloropropane	ug/kg	347	5950	5950	5640	5520	89	87	15-145	2	43	
2-Butanone (MEK)	ug/kg	ND	29700	29700	25300	25400	85	85	10-160	1	50	
2-Hexanone	ug/kg	17600	29700	29700	48300	48300	103	103	10-160	0	50	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	29700	29700	32300	32500	107	108	10-152	0	47	
Acetone	ug/kg	ND	29700	29700	32100	25600	108	86	10-160	23	49	
Benzene	ug/kg	ND	5950	5950	5710	5440	94	90	22-144	5	38	
Bromodichloromethane	ug/kg	ND	5950	5950	5730	5580	95	93	10-143	3	42	
Bromoform	ug/kg	ND	5950	5950	5680	5590	92	90	10-145	2	44	
Bromomethane	ug/kg	ND	5950	5950	4580	4360	72	69	10-137	5	47	
Carbon disulfide	ug/kg	ND	5950	5950	7040	5250	118	88	10-142	29	44	
Carbon tetrachloride	ug/kg	ND	5950	5950	5710	5190	96	87	15-153	10	45	
Chlorobenzene	ug/kg	ND	5950	5950	5690	5400	94	89	10-145	5	46	
Chloroethane	ug/kg	ND	5950	5950	5140	4700	86	79	17-134	9	42	
Chloroform	ug/kg	ND	5950	5950	5180	4980	87	84	17-138	4	44	
Chloromethane	ug/kg	ND	5950	5950	4170	3970	70	67	10-128	5	39	
cis-1,2-Dichloroethene	ug/kg	ND	5950	5950	5770	5590	97	94	17-140	3	46	
cis-1,3-Dichloropropene	ug/kg	ND	5950	5950	5410	5220	91	88	10-142	4	43	
Dibromochloromethane	ug/kg	ND	5950	5950	5700	5360	94	88	10-149	6	42	
Ethylbenzene	ug/kg	2940	5950	5950	8760	8350	98	91	10-154	5	42	
Methylene chloride	ug/kg	ND	5950	5950	5560	4150	91	68	15-140	29	46	
Styrene	ug/kg	ND	5950	5950	6020	5810	97	94	10-142	4	44	
Tetrachloroethene	ug/kg	ND	5950	5950	5840	5590	98	94	10-150	4	48	
Toluene	ug/kg	2250	5950	5950	7970	7760	96	93	11-150	3	40	
trans-1,2-Dichloroethene	ug/kg	ND	5950	5950	6420	5160	108	87	20-140	22	42	
trans-1,3-Dichloropropene	ug/kg	ND	5950	5950	5390	5040	91	85	10-149	7	41	
Trichloroethene	ug/kg	ND	5950	5950	5890	5650	99	95	14-146	4	45	
Vinyl chloride	ug/kg	ND	5950	5950	4960	4650	83	78	19-131	6	37	
Xylene (Total)	ug/kg	52800	17800	17800	69800	67600	95	83	10-154	3	41	
1,2-Dichloroethane-d4 (S)	%						95	98	75-129			
4-Bromofluorobenzene (S)	%						102	100	76-123			
Toluene-d8 (S)	%						104	105	80-120			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60175525

QC Batch: PMST/9905 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60175525001, 60175525002, 60175525003, 60175525004, 60175525005, 60175525006, 60175525007, 60175525008, 60175525009, 60175525010

METHOD BLANK: 1424567 Matrix: Solid
Associated Lab Samples: 60175525001, 60175525002, 60175525003, 60175525004, 60175525005, 60175525006, 60175525007, 60175525008, 60175525009, 60175525010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/12/14 00:00	

SAMPLE DUPLICATE: 1424568

Parameter	Units	60175525001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.1	21.2	4	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60175525

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60175525

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60175525001	**DP-43-SL (4.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525002	**DP-43-SL (10.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525003	**DP-43-SL (19.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525004	**DP-44-SL (4.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525005	**DP-44-SL (11.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525006	**DP-44-SL (18.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525007	**DP-44-SL (21.5 FT) - 20140811**	EPA 8260	MSV/63498		
60175525008	**DP-45-SL (4.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525009	**DP-45-SL (12.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525010	**DP-45-SL (18.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525001	**DP-43-SL (4.0 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525002	**DP-43-SL (10.0 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525003	**DP-43-SL (19.0 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525004	**DP-44-SL (4.0 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525005	**DP-44-SL (11.0 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525006	**DP-44-SL (18.0 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525007	**DP-44-SL (21.5 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525008	**DP-45-SL (4.0 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525009	**DP-45-SL (12.0 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525010	**DP-45-SL (18.0 FT) - 20140811**	ASTM D2974	PMST/9905		

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Sample Condition Upon Receipt

WO#: 60175525

60175525

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ xroad

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 ☑ ZPlC

Thermometer Used: T-239 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2-6

Temperature should be above freezing to 6°C

Date and initials of person examining contents: AR 8/12/14

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. Kits
Rush Turn Around Time requested:	☑Yes ☐No ☐N/A	7. 1Day
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 8/12	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: Water WT/SL		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, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	~~☑Yes~~ ☑No ☐N/A	
Pace Trip Blank lot # (if purchased): ~~020314-3~~ Water		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☑No ☐N/A	17. List State: AR

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CR JM Date: 8/12

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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:	24 HR

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:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJ Walls
Pace Profile #:	7444, line 1

REGULATORY AGENCY

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

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)

Pace Project No./ Lab I.D.: 60175525

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	8260 client specific list				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-43-SL(4.0FT)-20140811	SL	G			8/11/14	0915		5	2					1	1		X	1D69M	1D69B	2V69U		1BP8U 01
2	DP-43-SL(10.0FT)-20140811	SL	G			8/11/14	0940		5	3					1	1		X	↓	↓	↓		↓ 02
3	DP-43-SL(19.0FT)-20140811	SL	G			8/11/14	1007		5	3					1	1		X					03
4	DP-44-SL(4.0FT)-20140811	SL	G			8/11/14	1109		5	3					1	1		X					04
5	DP-44-SL(11.0FT)-20140811	SL	G			8/11/14	1128		5	3					1	1		X					05
6	DP-44-SL(18.0FT)-20140811	SL	G			8/11/14	1141		5	3					1	1		X					06
7	DP-44-SL(21.5FT)-20140811	SL	G			8/11/14	1207		5	3					1	1		X					07
8	DP-45-SL(4.0FT)-20140811	SL	G			8/11/14	1449		5	3					1	1		X					08
9	DP-45-SL(12.0FT)-20140811	SL	G			8/11/14	1510		5	3					1	1		X					09
10	DP-45-SL(18.0FT)20140811	SL	G			8/11/14	1525		5	3					1	1		X					010
11	ME								5 ME														
12									5 ME														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature] / ENVIRON	8/11/14	1730	[signature] PASI	8/12/14	0130	2.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Michael Eddings

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 8/11/14

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

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 13, 2014

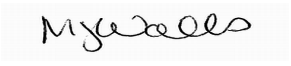
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60175526

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: EDD, Environ_AR
Tamara Gleason, ENVIRON International Corporation

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60175526

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60175526

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60175526001	**DP-41 - 082014**	Water	08/11/14 11:50	08/12/14 01:30
60175526002	**DP-40 - 082014**	Water	08/11/14 11:30	08/12/14 01:30
60175526003	**DP-42 - 082014**	Water	08/11/14 13:05	08/12/14 01:30
60175526004	**DP-43 - 082014**	Water	08/11/14 15:35	08/12/14 01:30
60175526005	**DP-44 - 082014**	Water	08/11/14 14:20	08/12/14 01:30
60175526006	**DP-45 - 082014**	Water	08/11/14 17:00	08/12/14 01:30
60175526007	**TB7-20140811**	Water	08/11/14 17:00	08/12/14 01:30

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60175526

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60175526001	**DP-41 - 082014**	EPA 5030B/8260	PRG	38
60175526002	**DP-40 - 082014**	EPA 5030B/8260	PRG	38
60175526003	**DP-42 - 082014**	EPA 5030B/8260	PRG	38
60175526004	**DP-43 - 082014**	EPA 5030B/8260	PRG	38
60175526005	**DP-44 - 082014**	EPA 5030B/8260	PRG	38
60175526006	**DP-45 - 082014**	EPA 5030B/8260	PRG	38
60175526007	**TB7-20140811**	EPA 5030B/8260	PRG	38

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60175526

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: August 13, 2014

General Information:
7 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

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/63499

B: Analyte was detected in the associated method blank.
- BLANK for HBN 350147 [MSV/6349 (Lab ID: 1424053)
  - Methylene chloride

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/63499

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: MSV/63499

1e: Sample was diluted due to the presence of high levels of sediment in the vial.
- DP-44 - 082014 (Lab ID: 60175526005)
  - 4-Bromofluorobenzene (S)

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175526

Sample: DP-41 - 082014 **Lab ID: 60175526001** Collected: 08/11/14 11:50 Received: 08/12/14 01:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**5.9J**	ug/L	10.0	5.0	1		08/12/14 12:33	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/12/14 12:33	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		08/12/14 12:33	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		08/12/14 12:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		08/12/14 12:33	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		08/12/14 12:33	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/12/14 12:33	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/12/14 12:33	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/12/14 12:33	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/12/14 12:33	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/12/14 12:33	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/12/14 12:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 12:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/12/14 12:33	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 12:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 12:33	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		08/12/14 12:33	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/12/14 12:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		08/12/14 12:33	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/12/14 12:33	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 12:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 12:33	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/12/14 12:33	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		08/12/14 12:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	80-120		1		08/12/14 12:33	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120		1		08/12/14 12:33	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		08/12/14 12:33	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/12/14 12:33		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175526

Sample: DP-40 - 082014 **Lab ID: 60175526002** Collected: 08/11/14 11:30 Received: 08/12/14 01:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**7.5J**	ug/L	10.0	5.0	1		08/12/14 12:47	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		08/12/14 12:47	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/12/14 12:47	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		08/12/14 12:47	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		08/12/14 12:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		08/12/14 12:47	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		08/12/14 12:47	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/12/14 12:47	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/12/14 12:47	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/12/14 12:47	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/12/14 12:47	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/12/14 12:47	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/12/14 12:47	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/12/14 12:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 12:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 12:47	75-35-4	
cis-1,2-Dichloroethene	**0.55J**	ug/L	5.0	0.50	1		08/12/14 12:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 12:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/12/14 12:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 12:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 12:47	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		08/12/14 12:47	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		08/12/14 12:47	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/12/14 12:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		08/12/14 12:47	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		08/12/14 12:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/12/14 12:47	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/12/14 12:47	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		08/12/14 12:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 12:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 12:47	79-00-5	
Trichloroethene	**3.2J**	ug/L	5.0	0.50	1		08/12/14 12:47	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/12/14 12:47	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		08/12/14 12:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		08/12/14 12:47	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120		1		08/12/14 12:47	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		08/12/14 12:47	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/12/14 12:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175526

Sample: DP-42 - 082014 **Lab ID: 60175526003** Collected: 08/11/14 13:05 Received: 08/12/14 01:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**6.4J**	ug/L	10.0	5.0	1		08/12/14 13:01	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/12/14 13:01	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		08/12/14 13:01	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		08/12/14 13:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		08/12/14 13:01	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		08/12/14 13:01	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/12/14 13:01	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/12/14 13:01	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/12/14 13:01	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/12/14 13:01	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/12/14 13:01	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/12/14 13:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/12/14 13:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 13:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 13:01	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		08/12/14 13:01	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/12/14 13:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		08/12/14 13:01	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/12/14 13:01	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:01	79-00-5	
Trichloroethene	**6.4**	ug/L	5.0	0.50	1		08/12/14 13:01	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/12/14 13:01	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		08/12/14 13:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		08/12/14 13:01	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120		1		08/12/14 13:01	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		08/12/14 13:01	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/12/14 13:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175526

Sample: DP-43 - 082014 **Lab ID: 60175526004** Collected: 08/11/14 15:35 Received: 08/12/14 01:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**6.9J**	ug/L	10.0	5.0	1		08/12/14 13:16	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/12/14 13:16	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		08/12/14 13:16	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		08/12/14 13:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		08/12/14 13:16	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		08/12/14 13:16	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/12/14 13:16	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/12/14 13:16	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/12/14 13:16	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/12/14 13:16	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/12/14 13:16	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/12/14 13:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/12/14 13:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 13:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 13:16	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		08/12/14 13:16	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/12/14 13:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		08/12/14 13:16	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/12/14 13:16	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:16	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/12/14 13:16	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		08/12/14 13:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		08/12/14 13:16	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120		1		08/12/14 13:16	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		08/12/14 13:16	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/12/14 13:16		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175526

Sample: DP-44 - 082014 **Lab ID: 60175526005** Collected: 08/11/14 14:20 Received: 08/12/14 01:30 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	50.0	25.0	5		08/12/14 13:30	67-64-1	
Benzene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	71-43-2	
Bromodichloromethane	ND	ug/L	25.0	2.5	5		08/12/14 13:30	75-27-4	
Bromoform	ND	ug/L	25.0	2.5	5		08/12/14 13:30	75-25-2	
Bromomethane	ND	ug/L	35.0	12.5	5		08/12/14 13:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	25.0	5		08/12/14 13:30	78-93-3	
Carbon disulfide	ND	ug/L	50.0	12.5	5		08/12/14 13:30	75-15-0	
Carbon tetrachloride	ND	ug/L	25.0	2.5	5		08/12/14 13:30	56-23-5	
Chlorobenzene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	108-90-7	
Chloroethane	ND	ug/L	50.0	2.5	5		08/12/14 13:30	75-00-3	
Chloroform	ND	ug/L	25.0	2.5	5		08/12/14 13:30	67-66-3	
Chloromethane	ND	ug/L	50.0	2.5	5		08/12/14 13:30	74-87-3	
Dibromochloromethane	ND	ug/L	25.0	2.5	5		08/12/14 13:30	124-48-1	
1,1-Dichloroethane	ND	ug/L	12.0	2.5	5		08/12/14 13:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	2.5	5		08/12/14 13:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	25.0	2.5	5		08/12/14 13:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	2.5	5		08/12/14 13:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	2.5	5		08/12/14 13:30	10061-02-6	
Ethylbenzene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	100-41-4	
2-Hexanone	ND	ug/L	50.0	25.0	5		08/12/14 13:30	591-78-6	
Methylene chloride	**3.4J**	ug/L	25.0	2.5	5		08/12/14 13:30	75-09-2	B
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	12.5	5		08/12/14 13:30	108-10-1	
Styrene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	2.5	5		08/12/14 13:30	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	127-18-4	
Toluene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	25.0	2.5	5		08/12/14 13:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	2.5	5		08/12/14 13:30	79-00-5	
Trichloroethene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	79-01-6	
Vinyl chloride	ND	ug/L	10.0	2.5	5		08/12/14 13:30	75-01-4	
Xylene (Total)	ND	ug/L	25.0	7.5	5		08/12/14 13:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		5		08/12/14 13:30	460-00-4	1e
1,2-Dichloroethane-d4 (S)	95	%	80-120		5		08/12/14 13:30	17060-07-0	
Toluene-d8 (S)	98	%	80-120		5		08/12/14 13:30	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	5		08/12/14 13:30		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175526

Sample: DP-45 - 082014 **Lab ID: 60175526006** Collected: 08/11/14 17:00 Received: 08/12/14 01:30 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	5.0	1		08/12/14 13:44	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		08/12/14 13:44	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/12/14 13:44	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		08/12/14 13:44	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		08/12/14 13:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		08/12/14 13:44	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		08/12/14 13:44	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/12/14 13:44	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/12/14 13:44	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/12/14 13:44	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/12/14 13:44	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/12/14 13:44	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/12/14 13:44	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/12/14 13:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:44	75-35-4	
cis-1,2-Dichloroethene	**1.3J**	ug/L	5.0	0.50	1		08/12/14 13:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/12/14 13:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 13:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 13:44	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		08/12/14 13:44	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		08/12/14 13:44	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/12/14 13:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		08/12/14 13:44	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		08/12/14 13:44	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/12/14 13:44	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:44	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		08/12/14 13:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:44	79-00-5	
Trichloroethene	**6.8**	ug/L	5.0	0.50	1		08/12/14 13:44	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/12/14 13:44	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		08/12/14 13:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		08/12/14 13:44	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		08/12/14 13:44	17060-07-0	
Toluene-d8 (S)	104	%	80-120		1		08/12/14 13:44	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/12/14 13:44		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175526

Sample: TB7-20140811 **Lab ID: 60175526007** Collected: 08/11/14 17:00 Received: 08/12/14 01:30 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	5.0	1		08/12/14 11:50	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/12/14 11:50	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		08/12/14 11:50	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		08/12/14 11:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		08/12/14 11:50	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		08/12/14 11:50	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/12/14 11:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/12/14 11:50	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/12/14 11:50	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/12/14 11:50	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/12/14 11:50	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/12/14 11:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 11:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/12/14 11:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 11:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 11:50	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		08/12/14 11:50	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/12/14 11:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		08/12/14 11:50	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/12/14 11:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 11:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 11:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/12/14 11:50	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		08/12/14 11:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		08/12/14 11:50	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120		1		08/12/14 11:50	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		08/12/14 11:50	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/12/14 11:50		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60175526

QC Batch: MSV/63499 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60175526001, 60175526002, 60175526003, 60175526004, 60175526005, 60175526006, 60175526007

METHOD BLANK: 1424053 Matrix: Water
Associated Lab Samples: 60175526001, 60175526002, 60175526003, 60175526004, 60175526005, 60175526006, 60175526007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	08/12/14 11:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/12/14 11:17	
1,1,2-Trichloroethane	ug/L	ND	5.0	08/12/14 11:17	
1,1-Dichloroethane	ug/L	ND	2.4	08/12/14 11:17	
1,1-Dichloroethene	ug/L	ND	5.0	08/12/14 11:17	
1,2-Dichloroethane	ug/L	ND	5.0	08/12/14 11:17	
1,2-Dichloropropane	ug/L	ND	5.0	08/12/14 11:17	
2-Butanone (MEK)	ug/L	ND	10.0	08/12/14 11:17	
2-Hexanone	ug/L	ND	10.0	08/12/14 11:17	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	08/12/14 11:17	
Acetone	ug/L	ND	10.0	08/12/14 11:17	
Benzene	ug/L	ND	5.0	08/12/14 11:17	
Bromodichloromethane	ug/L	ND	5.0	08/12/14 11:17	
Bromoform	ug/L	ND	5.0	08/12/14 11:17	
Bromomethane	ug/L	ND	7.0	08/12/14 11:17	
Carbon disulfide	ug/L	ND	10.0	08/12/14 11:17	
Carbon tetrachloride	ug/L	ND	5.0	08/12/14 11:17	
Chlorobenzene	ug/L	ND	5.0	08/12/14 11:17	
Chloroethane	ug/L	ND	10.0	08/12/14 11:17	
Chloroform	ug/L	ND	5.0	08/12/14 11:17	
Chloromethane	ug/L	ND	10.0	08/12/14 11:17	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/12/14 11:17	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/12/14 11:17	
Dibromochloromethane	ug/L	ND	5.0	08/12/14 11:17	
Ethylbenzene	ug/L	ND	5.0	08/12/14 11:17	
Methylene chloride	ug/L	0.53J	5.0	08/12/14 11:17	
Styrene	ug/L	ND	5.0	08/12/14 11:17	
Tetrachloroethene	ug/L	ND	5.0	08/12/14 11:17	
Toluene	ug/L	ND	5.0	08/12/14 11:17	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/12/14 11:17	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/12/14 11:17	
Trichloroethene	ug/L	ND	5.0	08/12/14 11:17	
Vinyl chloride	ug/L	ND	2.0	08/12/14 11:17	
Xylene (Total)	ug/L	ND	5.0	08/12/14 11:17	
1,2-Dichloroethane-d4 (S)	%	100	80-120	08/12/14 11:17	
4-Bromofluorobenzene (S)	%	99	80-120	08/12/14 11:17	
Toluene-d8 (S)	%	104	80-120	08/12/14 11:17	

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60175526

LABORATORY CONTROL SAMPLE: 1424054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.3	96	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	94	73-124	
1,1,2-Trichloroethane	ug/L	20	19.7	98	80-120	
1,1-Dichloroethane	ug/L	20	19.4	97	77-120	
1,1-Dichloroethene	ug/L	20	20.0	100	78-126	
1,2-Dichloroethane	ug/L	20	19.1	96	77-123	
1,2-Dichloropropane	ug/L	20	19.6	98	80-121	
2-Butanone (MEK)	ug/L	100	100	100	52-145	
2-Hexanone	ug/L	100	103	103	57-139	
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	71-131	
Acetone	ug/L	100	104	104	32-155	
Benzene	ug/L	20	19.0	95	80-120	
Bromodichloromethane	ug/L	20	18.9	94	80-120	
Bromoform	ug/L	20	19.1	95	73-124	
Bromomethane	ug/L	20	20.1	101	31-144	
Carbon disulfide	ug/L	20	21.8	109	65-125	
Carbon tetrachloride	ug/L	20	19.3	97	78-128	
Chlorobenzene	ug/L	20	19.4	97	80-120	
Chloroethane	ug/L	20	17.8	89	55-137	
Chloroform	ug/L	20	19.3	96	79-120	
Chloromethane	ug/L	20	19.9	100	22-138	
cis-1,2-Dichloroethene	ug/L	20	19.6	98	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.0	95	80-120	
Dibromochloromethane	ug/L	20	20.0	100	80-120	
Ethylbenzene	ug/L	20	19.2	96	80-121	
Methylene chloride	ug/L	20	19.2	96	73-126	
Styrene	ug/L	20	20.1	101	80-120	
Tetrachloroethene	ug/L	20	19.3	96	80-121	
Toluene	ug/L	20	19.2	96	80-122	
trans-1,2-Dichloroethene	ug/L	20	18.9	94	79-121	
trans-1,3-Dichloropropene	ug/L	20	19.1	96	80-127	
Trichloroethene	ug/L	20	19.9	100	80-120	
Vinyl chloride	ug/L	20	18.7	94	59-120	
Xylene (Total)	ug/L	60	59.5	99	80-121	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Toluene-d8 (S)	%			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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60175526

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/63499

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e Sample was diluted due to the presence of high levels of sediment in the vial.

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.: 60175526

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60175526001	**DP-41 - 082014**	EPA 5030B/8260	MSV/63499		
60175526002	**DP-40 - 082014**	EPA 5030B/8260	MSV/63499		
60175526003	**DP-42 - 082014**	EPA 5030B/8260	MSV/63499		
60175526004	**DP-43 - 082014**	EPA 5030B/8260	MSV/63499		
60175526005	**DP-44 - 082014**	EPA 5030B/8260	MSV/63499		
60175526006	**DP-45 - 082014**	EPA 5030B/8260	MSV/63499		
60175526007	**TB7-20140811**	EPA 5030B/8260	MSV/63499		

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Sample Condition Upon Receipt

WO#:60175526

60175526

Client Name: Environ

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ xroad

Tracking #: ______ Pace Shipping Label Used? Yes ☐ No ☒

Optional
Proj Due Date:
Proj Name:

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☒ ZPIC

Thermometer Used: T-239 / T-194 (T-239 circled) Type of Ice: Wet (circled) Blue None ☐ Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 2.6

Date and initials of person examining contents: [initials] 8/12/14

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. ~~K175~~ [initials] 8/12
Rush Turn Around Time requested:	☒Yes	☐No	☐N/A	7. 1Day
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: Includes date/time/ID/analyses Matrix: WT / SL [initials]	☒Yes	☐No	☐N/A	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 (circled), coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes	☐No		Initial when completed / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): 020314-3	☒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: AR

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: ______ Date/Time: ______

Comments/ Resolution: ______

Project Manager Review: [signature] Date: 8/12

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

Page: 2 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:	24HR

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, line 1

REGULATORY AGENCY

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

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 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-41-082014	WT	G			8/11/14	1150		1				X					X		60175526 1D69AH 01
2	DP-40-082014	WT	G			8/11/14	1130		3				X					X		3D69AH 02
3	DP-42-082014	WT	G			8/11/14	1305		3				X					X		03
4	DP-43-082014	WT	G			8/11/14	1535		3				X					X		04
5	DP-44-082014	WT	G			8/11/14	1420		3				X					X		05
6	DP-45-082014	WT	G			8/11/14	1700		3				X					X		06
7																				2D69AH TB 07
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / ENVIRON	8/11/14	1730	[signature] PASE	8/12/14	0130	2.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/11/14

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

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 14, 2014

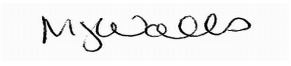
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH AR
Pace Project No.: 60175646

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on August 13, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: EDD, Environ_AR
Tamara Gleason, ENVIRON International Corporation

Pace Analytical Services, Inc.
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CERTIFICATIONS

Project: FORT SMITH AR
Pace Project No.: 60175646

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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SAMPLE SUMMARY

Project: FORT SMITH AR
Pace Project No.: 60175646

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60175646001	**DP-46-SL (4.5 FT) - 20140812**	Solid	08/12/14 08:00	08/13/14 08:30
60175646002	**DP-46-SL (13.5 FT) - 20140812**	Solid	08/12/14 08:30	08/13/14 08:30
60175646003	**DP-46-SL (18.0 FT) - 20140812**	Solid	08/12/14 08:50	08/13/14 08:30
60175646004	**DP-47-SL (5.0 FT) - 20140812**	Solid	08/12/14 13:50	08/13/14 08:30
60175646005	**DP-47-SL (22.0 FT) - 20140812**	Solid	08/12/14 14:40	08/13/14 08:30
60175646006	**TB15-20140812**	Solid	08/12/14 08:00	08/13/14 08:30

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60175646

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60175646001	**DP-46-SL (4.5 FT) - 20140812**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175646002	**DP-46-SL (13.5 FT) - 20140812**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175646003	**DP-46-SL (18.0 FT) - 20140812**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175646004	**DP-47-SL (5.0 FT) - 20140812**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175646005	**DP-47-SL (22.0 FT) - 20140812**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175646006	**TB15-20140812**	EPA 8260	TJT	37

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60175646

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: August 14, 2014

General Information:
6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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/63525

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.: 60175646

Sample: DP-46-SL (4.5 FT) - 20140812 **Lab ID: 60175646001** Collected: 08/12/14 08:00 Received: 08/13/14 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	21.0	10.5	1		08/13/14 15:28	67-64-1	
Benzene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	71-43-2	
Bromodichloromethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	75-27-4	
Bromoform	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	75-25-2	
Bromomethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.5	5.2	1		08/13/14 15:28	78-93-3	
Carbon disulfide	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	108-90-7	
Chloroethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	75-00-3	
Chloroform	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	67-66-3	
Chloromethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	74-87-3	
Dibromochloromethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	10061-02-6	
Ethylbenzene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	100-41-4	
2-Hexanone	ND	ug/kg	21.0	10.5	1		08/13/14 15:28	591-78-6	
Methylene chloride	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.5	5.2	1		08/13/14 15:28	108-10-1	
Styrene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	127-18-4	
Toluene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	79-00-5	
Trichloroethene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	79-01-6	
Vinyl chloride	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	75-01-4	
Xylene (Total)	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/13/14 15:28	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/13/14 15:28	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	75-129		1		08/13/14 15:28	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**14.5**	%	0.50	0.50	1		08/13/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60175646

Sample: DP-46-SL (13.5 FT) - 20140812 **Lab ID: 60175646002** Collected: 08/12/14 08:30 Received: 08/13/14 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	16.6	8.3	1		08/13/14 15:43	67-64-1	
Benzene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	71-43-2	
Bromodichloromethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	75-27-4	
Bromoform	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	75-25-2	
Bromomethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.3	4.2	1		08/13/14 15:43	78-93-3	
Carbon disulfide	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	56-23-5	
Chlorobenzene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	108-90-7	
Chloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	75-00-3	
Chloroform	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	67-66-3	
Chloromethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	74-87-3	
Dibromochloromethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	10061-02-6	
Ethylbenzene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	100-41-4	
2-Hexanone	ND	ug/kg	16.6	8.3	1		08/13/14 15:43	591-78-6	
Methylene chloride	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.3	4.2	1		08/13/14 15:43	108-10-1	
Styrene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	79-34-5	
Tetrachloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	127-18-4	
Toluene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	79-00-5	
Trichloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	79-01-6	
Vinyl chloride	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	75-01-4	
Xylene (Total)	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	80-120		1		08/13/14 15:43	2037-26-5	
4-Bromofluorobenzene (S)	99	%	76-123		1		08/13/14 15:43	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	75-129		1		08/13/14 15:43	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**14.2**	%	0.50	0.50	1		08/13/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60175646

Sample: DP-46-SL (18.0 FT) - 20140812 **Lab ID: 60175646003** Collected: 08/12/14 08:50 Received: 08/13/14 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	16.7	8.3	1		08/13/14 15:58	67-64-1	
Benzene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	71-43-2	
Bromodichloromethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	75-27-4	
Bromoform	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	75-25-2	
Bromomethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.3	4.2	1		08/13/14 15:58	78-93-3	
Carbon disulfide	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	56-23-5	
Chlorobenzene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	108-90-7	
Chloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	75-00-3	
Chloroform	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	67-66-3	
Chloromethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	74-87-3	
Dibromochloromethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	10061-02-6	
Ethylbenzene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	100-41-4	
2-Hexanone	ND	ug/kg	16.7	8.3	1		08/13/14 15:58	591-78-6	
Methylene chloride	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.3	4.2	1		08/13/14 15:58	108-10-1	
Styrene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	79-34-5	
Tetrachloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	127-18-4	
Toluene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	79-00-5	
Trichloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	79-01-6	
Vinyl chloride	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	75-01-4	
Xylene (Total)	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	80-120		1		08/13/14 15:58	2037-26-5	
4-Bromofluorobenzene (S)	99	%	76-123		1		08/13/14 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	75-129		1		08/13/14 15:58	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**12.2**	%	0.50	0.50	1		08/13/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60175646

Sample: DP-47-SL (5.0 FT) - 20140812 **Lab ID: 60175646004** Collected: 08/12/14 13:50 Received: 08/13/14 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	20.2	10.1	1		08/13/14 16:14	67-64-1	
Benzene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	71-43-2	
Bromodichloromethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	75-27-4	
Bromoform	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	75-25-2	
Bromomethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.1	5.0	1		08/13/14 16:14	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	75-00-3	
Chloroform	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	67-66-3	
Chloromethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	74-87-3	
Dibromochloromethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	100-41-4	
2-Hexanone	ND	ug/kg	20.2	10.1	1		08/13/14 16:14	591-78-6	
Methylene chloride	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.1	5.0	1		08/13/14 16:14	108-10-1	
Styrene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	127-18-4	
Toluene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	79-00-5	
Trichloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	79-01-6	
Vinyl chloride	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	80-120		1		08/13/14 16:14	2037-26-5	
4-Bromofluorobenzene (S)	104	%	76-123		1		08/13/14 16:14	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-129		1		08/13/14 16:14	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**17.4**	%	0.50	0.50	1		08/13/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60175646

Sample: DP-47-SL (22.0 FT) - 20140812 **Lab ID: 60175646005** Collected: 08/12/14 14:40 Received: 08/13/14 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	17.3	8.7	1		08/13/14 16:29	67-64-1	
Benzene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	71-43-2	
Bromodichloromethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	75-27-4	
Bromoform	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	75-25-2	
Bromomethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.7	4.3	1		08/13/14 16:29	78-93-3	
Carbon disulfide	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	108-90-7	
Chloroethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	75-00-3	
Chloroform	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	67-66-3	
Chloromethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	74-87-3	
Dibromochloromethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	100-41-4	
2-Hexanone	ND	ug/kg	17.3	8.7	1		08/13/14 16:29	591-78-6	
Methylene chloride	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.7	4.3	1		08/13/14 16:29	108-10-1	
Styrene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	127-18-4	
Toluene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	79-00-5	
Trichloroethene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	79-01-6	
Vinyl chloride	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	75-01-4	
Xylene (Total)	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	80-120		1		08/13/14 16:29	2037-26-5	
4-Bromofluorobenzene (S)	98	%	76-123		1		08/13/14 16:29	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	75-129		1		08/13/14 16:29	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**10.8**	%	0.50	0.50	1		08/13/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60175646

Sample: TB15-20140812 **Lab ID: 60175646006** Collected: 08/12/14 08:00 Received: 08/13/14 08:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	20.0	10.0	1		08/13/14 12:54	67-64-1	
Benzene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	71-43-2	
Bromodichloromethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	75-27-4	
Bromoform	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	75-25-2	
Bromomethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.0	5.0	1		08/13/14 12:54	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	75-00-3	
Chloroform	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	67-66-3	
Chloromethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	74-87-3	
Dibromochloromethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	100-41-4	
2-Hexanone	ND	ug/kg	20.0	10.0	1		08/13/14 12:54	591-78-6	
Methylene chloride	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	5.0	1		08/13/14 12:54	108-10-1	
Styrene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	127-18-4	
Toluene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	79-00-5	
Trichloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	79-01-6	
Vinyl chloride	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	80-120		1		08/13/14 12:54	2037-26-5	
4-Bromofluorobenzene (S)	96	%	76-123		1		08/13/14 12:54	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	75-129		1		08/13/14 12:54	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60175646

QC Batch: MSV/63525 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60175646001, 60175646002, 60175646003, 60175646004, 60175646005, 60175646006

METHOD BLANK: 1424585 Matrix: Solid
Associated Lab Samples: 60175646001, 60175646002, 60175646003, 60175646004, 60175646005, 60175646006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/13/14 12:17	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/13/14 12:17	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/13/14 12:17	
1,1-Dichloroethane	ug/kg	ND	5.0	08/13/14 12:17	
1,1-Dichloroethene	ug/kg	ND	5.0	08/13/14 12:17	
1,2-Dichloroethane	ug/kg	ND	5.0	08/13/14 12:17	
1,2-Dichloropropane	ug/kg	ND	5.0	08/13/14 12:17	
2-Butanone (MEK)	ug/kg	ND	10.0	08/13/14 12:17	
2-Hexanone	ug/kg	ND	20.0	08/13/14 12:17	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	08/13/14 12:17	
Acetone	ug/kg	ND	20.0	08/13/14 12:17	
Benzene	ug/kg	ND	5.0	08/13/14 12:17	
Bromodichloromethane	ug/kg	ND	5.0	08/13/14 12:17	
Bromoform	ug/kg	ND	5.0	08/13/14 12:17	
Bromomethane	ug/kg	3.8J	5.0	08/13/14 12:17	
Carbon disulfide	ug/kg	ND	5.0	08/13/14 12:17	
Carbon tetrachloride	ug/kg	ND	5.0	08/13/14 12:17	
Chlorobenzene	ug/kg	ND	5.0	08/13/14 12:17	
Chloroethane	ug/kg	ND	5.0	08/13/14 12:17	
Chloroform	ug/kg	ND	5.0	08/13/14 12:17	
Chloromethane	ug/kg	ND	5.0	08/13/14 12:17	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/13/14 12:17	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/13/14 12:17	
Dibromochloromethane	ug/kg	ND	5.0	08/13/14 12:17	
Ethylbenzene	ug/kg	ND	5.0	08/13/14 12:17	
Methylene chloride	ug/kg	ND	5.0	08/13/14 12:17	
Styrene	ug/kg	ND	5.0	08/13/14 12:17	
Tetrachloroethene	ug/kg	ND	5.0	08/13/14 12:17	
Toluene	ug/kg	ND	5.0	08/13/14 12:17	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/13/14 12:17	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/13/14 12:17	
Trichloroethene	ug/kg	ND	5.0	08/13/14 12:17	
Vinyl chloride	ug/kg	ND	5.0	08/13/14 12:17	
Xylene (Total)	ug/kg	ND	5.0	08/13/14 12:17	
1,2-Dichloroethane-d4 (S)	%	93	75-129	08/13/14 12:17	
4-Bromofluorobenzene (S)	%	98	76-123	08/13/14 12:17	
Toluene-d8 (S)	%	99	80-120	08/13/14 12:17	

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60175646

LABORATORY CONTROL SAMPLE: 1424586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	91.1	91	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	95.2	95	73-120	
1,1,2-Trichloroethane	ug/kg	100	91.0	91	76-120	
1,1-Dichloroethane	ug/kg	100	96.6	97	71-120	
1,1-Dichloroethene	ug/kg	100	92.3	92	76-130	
1,2-Dichloroethane	ug/kg	100	86.4	86	78-120	
1,2-Dichloropropane	ug/kg	100	88.1	88	80-120	
2-Butanone (MEK)	ug/kg	500	415	83	55-135	
2-Hexanone	ug/kg	500	451	90	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	451	90	71-128	
Acetone	ug/kg	500	485	97	43-144	
Benzene	ug/kg	100	86.7	87	80-120	
Bromodichloromethane	ug/kg	100	89.3	89	80-120	
Bromoform	ug/kg	100	85.6	86	75-124	
Bromomethane	ug/kg	100	69.0	69	38-150	
Carbon disulfide	ug/kg	100	95.8	96	58-137	
Carbon tetrachloride	ug/kg	100	87.8	88	75-140	
Chlorobenzene	ug/kg	100	84.8	85	80-120	
Chloroethane	ug/kg	100	79.0	79	65-127	
Chloroform	ug/kg	100	80.2	80	74-120	
Chloromethane	ug/kg	100	70.5	70	39-138	
cis-1,2-Dichloroethene	ug/kg	100	90.2	90	76-124	
cis-1,3-Dichloropropene	ug/kg	100	84.1	84	82-120	
Dibromochloromethane	ug/kg	100	86.7	87	80-124	
Ethylbenzene	ug/kg	100	88.9	89	80-120	
Methylene chloride	ug/kg	100	76.5	76	70-123	
Styrene	ug/kg	100	89.2	89	79-120	
Tetrachloroethene	ug/kg	100	87.1	87	78-128	
Toluene	ug/kg	100	89.5	90	79-120	
trans-1,2-Dichloroethene	ug/kg	100	90.2	90	76-124	
trans-1,3-Dichloropropene	ug/kg	100	80.6	81	80-124	
Trichloroethene	ug/kg	100	87.3	87	80-120	
Vinyl chloride	ug/kg	100	66.5	67	57-132	
Xylene (Total)	ug/kg	300	259	86	79-120	
1,2-Dichloroethane-d4 (S)	%			95	75-129	
4-Bromofluorobenzene (S)	%			93	76-123	
Toluene-d8 (S)	%			103	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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60175646

QC Batch: PMST/9907 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60175646001, 60175646002, 60175646003, 60175646004, 60175646005

METHOD BLANK: 1424864 Matrix: Solid
Associated Lab Samples: 60175646001, 60175646002, 60175646003, 60175646004, 60175646005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/13/14 00:00	

SAMPLE DUPLICATE: 1424865

Parameter	Units	60175645001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.6	16.6	0	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

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH AR
Pace Project No.: 60175646

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/63525

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60175646

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60175646001	**DP-46-SL (4.5 FT) - 20140812**	EPA 8260	MSV/63525		
60175646002	**DP-46-SL (13.5 FT) - 20140812**	EPA 8260	MSV/63525		
60175646003	**DP-46-SL (18.0 FT) - 20140812**	EPA 8260	MSV/63525		
60175646004	**DP-47-SL (5.0 FT) - 20140812**	EPA 8260	MSV/63525		
60175646005	**DP-47-SL (22.0 FT) - 20140812**	EPA 8260	MSV/63525		
60175646006	**TB15-20140812**	EPA 8260	MSV/63525		
60175646001	**DP-46-SL (4.5 FT) - 20140812**	ASTM D2974	PMST/9907		
60175646002	**DP-46-SL (13.5 FT) - 20140812**	ASTM D2974	PMST/9907		
60175646003	**DP-46-SL (18.0 FT) - 20140812**	ASTM D2974	PMST/9907		
60175646004	**DP-47-SL (5.0 FT) - 20140812**	ASTM D2974	PMST/9907		
60175646005	**DP-47-SL (22.0 FT) - 20140812**	ASTM D2974	PMST/9907		

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Sample Condition Upon Receipt

WO# : 60175646

60175646

Optional
Proj Due Date:
Proj Name:

Client Name: Enviro

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

Tracking #: 6113 5277 3520 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 ☑ zpac

Thermometer Used: T-239 T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 4.6

Date and initials of person examining contents: att 8/13

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. Kits
Rush Turn Around Time requested:	☑Yes ☐No ☐N/A	7. 24 hrs
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: Includes date/time/ID/analyses Matrix: SL	☑Yes ☐No ☐N/A	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, TOC, O&G, WI-DRO (water), Phenolics	☐Yes ☑No	Initial when completed / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased):	☐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: AZ

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: ch for (MR) Date: 8/13

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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:	24 Hr.

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, line 1

REGULATORY AGENCY

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

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.
																		Requested Analysis Filtered (Y/N)	N		60175646
1	DP-46-SL (4.5 FT)-20140812	SL	G			8/12/14	0800		5	X						X	X		X		1(BPAU) 1(DEAM) 1(DPAB) 2(VA)
2	DP-46-SL (13.5 FT)-20140812						0830														
3	DP-46-SL (18.0 FT)-20140812						0850														
4	DP-47-SL (5.0 FT)-20140812						1350														
5	DP-47-SL (22.0 FT)-20140812						1440														
6	Trip Blank 07-20140812	WT							2												
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)
24 Hr TAT!	/ENVIRON	8/12/14	1830		8/13	8:30	4.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 8/12/14

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 19, 2014

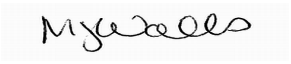
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: Fort Smith, AR
Pace Project No.: 60175927

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on August 16, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: EDD, Environ_AR
Tamara Gleason, ENVIRON International Corporation

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: Fort Smith, AR
Pace Project No.: 60175927

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
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

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SAMPLE SUMMARY

Project: Fort Smith, AR
Pace Project No.: 60175927

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60175927001	**DP-48-SL (4.0 FT)-20140814**	Solid	08/14/14 10:35	08/16/14 02:35
60175927002	**DP-48-SL (11.5 FT)-20140814**	Solid	08/14/14 10:50	08/16/14 02:35
60175927003	**DP-49-SL (4.0 FT)-20140814**	Solid	08/14/14 12:35	08/16/14 02:35
60175927004	**DP-49-SL (10.0 FT)-20140814**	Solid	08/14/14 12:40	08/16/14 02:35
60175927005	**DP-49-SL (13.0 FT)-20140814**	Solid	08/14/14 12:55	08/16/14 02:35
60175927006	**DP-50-SL (4.0 FT)-20140814**	Solid	08/14/14 14:30	08/16/14 02:35
60175927007	**DP-50-SL (10.0 FT)-20140814**	Solid	08/14/14 14:45	08/16/14 02:35
60175927008	**TB17-20140814**	Solid	08/14/14 10:35	08/16/14 02:35

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SAMPLE ANALYTE COUNT

Project: Fort Smith, AR
Pace Project No.: 60175927

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60175927001	**DP-48-SL (4.0 FT)-20140814**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60175927002	**DP-48-SL (11.5 FT)-20140814**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60175927003	**DP-49-SL (4.0 FT)-20140814**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60175927004	**DP-49-SL (10.0 FT)-20140814**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60175927005	**DP-49-SL (13.0 FT)-20140814**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60175927006	**DP-50-SL (4.0 FT)-20140814**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60175927007	**DP-50-SL (10.0 FT)-20140814**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60175927008	**TB17-20140814**	EPA 8260	JKL	37

Pace Analytical Services, Inc.
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PROJECT NARRATIVE

Project: Fort Smith, AR
Pace Project No.: 60175927

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: August 19, 2014

General Information:
8 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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.

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: Fort Smith, AR
Pace Project No.: 60175927

Sample: DP-48-SL (4.0 FT)-20140814 **Lab ID: 60175927001** Collected: 08/14/14 10:35 Received: 08/16/14 02:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	**15.3J**	ug/kg	18.5	9.2	1		08/18/14 15:25	67-64-1	
Benzene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	71-43-2	
Bromodichloromethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	75-27-4	
Bromoform	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	75-25-2	
Bromomethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.2	4.6	1		08/18/14 15:25	78-93-3	
Carbon disulfide	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	108-90-7	
Chloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	75-00-3	
Chloroform	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	67-66-3	
Chloromethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	74-87-3	
Dibromochloromethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	100-41-4	
2-Hexanone	ND	ug/kg	18.5	9.2	1		08/18/14 15:25	591-78-6	
Methylene chloride	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.2	4.6	1		08/18/14 15:25	108-10-1	
Styrene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	127-18-4	
Toluene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	79-00-5	
Trichloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	79-01-6	
Vinyl chloride	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	75-01-4	
Xylene (Total)	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	1330-20-7	
Surrogates									
Toluene-d8 (S)	99	%	80-120		1		08/18/14 15:25	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/18/14 15:25	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	75-129		1		08/18/14 15:25	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**13.0**	%	0.50	0.50	1		08/18/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60175927

Sample: DP-48-SL (11.5 FT)-20140814 **Lab ID: 60175927002** Collected: 08/14/14 10:50 Received: 08/16/14 02:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	**9.3J**	ug/kg	17.2	8.6	1		08/18/14 15:40	67-64-1	
Benzene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	71-43-2	
Bromodichloromethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	75-27-4	
Bromoform	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	75-25-2	
Bromomethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.6	4.3	1		08/18/14 15:40	78-93-3	
Carbon disulfide	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	108-90-7	
Chloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	75-00-3	
Chloroform	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	67-66-3	
Chloromethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	74-87-3	
Dibromochloromethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	100-41-4	
2-Hexanone	ND	ug/kg	17.2	8.6	1		08/18/14 15:40	591-78-6	
Methylene chloride	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.6	4.3	1		08/18/14 15:40	108-10-1	
Styrene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	127-18-4	
Toluene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	79-00-5	
Trichloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	79-01-6	
Vinyl chloride	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	75-01-4	
Xylene (Total)	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		08/18/14 15:40	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/18/14 15:40	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	75-129		1		08/18/14 15:40	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**10.8**	%	0.50	0.50	1		08/18/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60175927

Sample: DP-49-SL (4.0 FT)-20140814 **Lab ID: 60175927003** Collected: 08/14/14 12:35 Received: 08/16/14 02:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	**15.4J**	ug/kg	19.4	9.7	1		08/18/14 15:56	67-64-1	
Benzene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	71-43-2	
Bromodichloromethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	75-27-4	
Bromoform	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	75-25-2	
Bromomethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.7	4.8	1		08/18/14 15:56	78-93-3	
Carbon disulfide	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	108-90-7	
Chloroethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	75-00-3	
Chloroform	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	67-66-3	
Chloromethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	74-87-3	
Dibromochloromethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	100-41-4	
2-Hexanone	ND	ug/kg	19.4	9.7	1		08/18/14 15:56	591-78-6	
Methylene chloride	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.7	4.8	1		08/18/14 15:56	108-10-1	
Styrene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	127-18-4	
Toluene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	79-00-5	
Trichloroethene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	79-01-6	
Vinyl chloride	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	75-01-4	
Xylene (Total)	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		08/18/14 15:56	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/18/14 15:56	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-129		1		08/18/14 15:56	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**15.5**	%	0.50	0.50	1		08/18/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60175927

Sample: DP-49-SL (10.0 FT)-20140814 **Lab ID: 60175927004** Collected: 08/14/14 12:40 Received: 08/16/14 02:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	**12.3J**	ug/kg	17.4	8.7	1		08/18/14 16:11	67-64-1	
Benzene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	71-43-2	
Bromodichloromethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	75-27-4	
Bromoform	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	75-25-2	
Bromomethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.7	4.3	1		08/18/14 16:11	78-93-3	
Carbon disulfide	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	108-90-7	
Chloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	75-00-3	
Chloroform	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	67-66-3	
Chloromethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	74-87-3	
Dibromochloromethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	100-41-4	
2-Hexanone	ND	ug/kg	17.4	8.7	1		08/18/14 16:11	591-78-6	
Methylene chloride	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.7	4.3	1		08/18/14 16:11	108-10-1	
Styrene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	127-18-4	
Toluene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	79-00-5	
Trichloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	79-01-6	
Vinyl chloride	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	75-01-4	
Xylene (Total)	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/18/14 16:11	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		08/18/14 16:11	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	75-129		1		08/18/14 16:11	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**11.3**	%	0.50	0.50	1		08/18/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60175927

Sample: DP-49-SL (13.0 FT)-20140814 **Lab ID: 60175927005** Collected: 08/14/14 12:55 Received: 08/16/14 02:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	**14.2J**	ug/kg	22.6	11.3	1		08/18/14 16:26	67-64-1	
Benzene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	71-43-2	
Bromodichloromethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	75-27-4	
Bromoform	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	75-25-2	
Bromomethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	74-83-9	
2-Butanone (MEK)	ND	ug/kg	11.3	5.6	1		08/18/14 16:26	78-93-3	
Carbon disulfide	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	56-23-5	
Chlorobenzene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	108-90-7	
Chloroethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	75-00-3	
Chloroform	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	67-66-3	
Chloromethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	74-87-3	
Dibromochloromethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	10061-02-6	
Ethylbenzene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	100-41-4	
2-Hexanone	ND	ug/kg	22.6	11.3	1		08/18/14 16:26	591-78-6	
Methylene chloride	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.3	5.6	1		08/18/14 16:26	108-10-1	
Styrene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	79-34-5	
Tetrachloroethene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	127-18-4	
Toluene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	79-00-5	
Trichloroethene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	79-01-6	
Vinyl chloride	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	75-01-4	
Xylene (Total)	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		08/18/14 16:26	2037-26-5	
4-Bromofluorobenzene (S)	98	%	76-123		1		08/18/14 16:26	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	75-129		1		08/18/14 16:26	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**18.9**	%	0.50	0.50	1		08/18/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60175927

Sample: DP-50-SL (4.0 FT)-20140814 **Lab ID: 60175927006** Collected: 08/14/14 14:30 Received: 08/16/14 02:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	18.4	9.2	1		08/18/14 16:42	67-64-1	
Benzene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	71-43-2	
Bromodichloromethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	75-27-4	
Bromoform	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	75-25-2	
Bromomethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.2	4.6	1		08/18/14 16:42	78-93-3	
Carbon disulfide	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	108-90-7	
Chloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	75-00-3	
Chloroform	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	67-66-3	
Chloromethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	74-87-3	
Dibromochloromethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	100-41-4	
2-Hexanone	ND	ug/kg	18.4	9.2	1		08/18/14 16:42	591-78-6	
Methylene chloride	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.2	4.6	1		08/18/14 16:42	108-10-1	
Styrene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	127-18-4	
Toluene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	79-00-5	
Trichloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	79-01-6	
Vinyl chloride	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	75-01-4	
Xylene (Total)	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		08/18/14 16:42	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/18/14 16:42	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-129		1		08/18/14 16:42	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**15.8**	%	0.50	0.50	1		08/18/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60175927

Sample: DP-50-SL (10.0 FT)-20140814 **Lab ID: 60175927007** Collected: 08/14/14 14:45 Received: 08/16/14 02:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	15.9	7.9	1		08/18/14 16:57	67-64-1	
Benzene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	71-43-2	
Bromodichloromethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	75-27-4	
Bromoform	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	75-25-2	
Bromomethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	74-83-9	
2-Butanone (MEK)	ND	ug/kg	7.9	4.0	1		08/18/14 16:57	78-93-3	
Carbon disulfide	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	56-23-5	
Chlorobenzene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	108-90-7	
Chloroethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	75-00-3	
Chloroform	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	67-66-3	
Chloromethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	74-87-3	
Dibromochloromethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	10061-02-6	
Ethylbenzene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	100-41-4	
2-Hexanone	ND	ug/kg	15.9	7.9	1		08/18/14 16:57	591-78-6	
Methylene chloride	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	7.9	4.0	1		08/18/14 16:57	108-10-1	
Styrene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	79-34-5	
Tetrachloroethene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	127-18-4	
Toluene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	79-00-5	
Trichloroethene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	79-01-6	
Vinyl chloride	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	75-01-4	
Xylene (Total)	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	80-120		1		08/18/14 16:57	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		08/18/14 16:57	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-129		1		08/18/14 16:57	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**10.6**	%	0.50	0.50	1		08/18/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60175927

Sample: TB17-20140814 **Lab ID: 60175927008** Collected: 08/14/14 10:35 Received: 08/16/14 02:35 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	20.0	10.0	1		08/18/14 17:12	67-64-1	
Benzene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	71-43-2	
Bromodichloromethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	75-27-4	
Bromoform	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	75-25-2	
Bromomethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.0	5.0	1		08/18/14 17:12	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	75-00-3	
Chloroform	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	67-66-3	
Chloromethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	74-87-3	
Dibromochloromethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	100-41-4	
2-Hexanone	ND	ug/kg	20.0	10.0	1		08/18/14 17:12	591-78-6	
Methylene chloride	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	5.0	1		08/18/14 17:12	108-10-1	
Styrene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	127-18-4	
Toluene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	79-00-5	
Trichloroethene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	79-01-6	
Vinyl chloride	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		08/18/14 17:12	2037-26-5	
4-Bromofluorobenzene (S)	98	%	76-123		1		08/18/14 17:12	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	75-129		1		08/18/14 17:12	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60175927

QC Batch: MSV/63624 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60175927001, 60175927002, 60175927003, 60175927004, 60175927005, 60175927006, 60175927007, 60175927008

METHOD BLANK: 1426686 Matrix: Solid
Associated Lab Samples: 60175927001, 60175927002, 60175927003, 60175927004, 60175927005, 60175927006, 60175927007, 60175927008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/18/14 15:10	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/18/14 15:10	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/18/14 15:10	
1,1-Dichloroethane	ug/kg	ND	5.0	08/18/14 15:10	
1,1-Dichloroethene	ug/kg	ND	5.0	08/18/14 15:10	
1,2-Dichloroethane	ug/kg	ND	5.0	08/18/14 15:10	
1,2-Dichloropropane	ug/kg	ND	5.0	08/18/14 15:10	
2-Butanone (MEK)	ug/kg	ND	10.0	08/18/14 15:10	
2-Hexanone	ug/kg	ND	20.0	08/18/14 15:10	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	08/18/14 15:10	
Acetone	ug/kg	ND	20.0	08/18/14 15:10	
Benzene	ug/kg	ND	5.0	08/18/14 15:10	
Bromodichloromethane	ug/kg	ND	5.0	08/18/14 15:10	
Bromoform	ug/kg	ND	5.0	08/18/14 15:10	
Bromomethane	ug/kg	ND	5.0	08/18/14 15:10	
Carbon disulfide	ug/kg	ND	5.0	08/18/14 15:10	
Carbon tetrachloride	ug/kg	ND	5.0	08/18/14 15:10	
Chlorobenzene	ug/kg	ND	5.0	08/18/14 15:10	
Chloroethane	ug/kg	ND	5.0	08/18/14 15:10	
Chloroform	ug/kg	ND	5.0	08/18/14 15:10	
Chloromethane	ug/kg	ND	5.0	08/18/14 15:10	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/18/14 15:10	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/18/14 15:10	
Dibromochloromethane	ug/kg	ND	5.0	08/18/14 15:10	
Ethylbenzene	ug/kg	ND	5.0	08/18/14 15:10	
Methylene chloride	ug/kg	ND	5.0	08/18/14 15:10	
Styrene	ug/kg	ND	5.0	08/18/14 15:10	
Tetrachloroethene	ug/kg	ND	5.0	08/18/14 15:10	
Toluene	ug/kg	ND	5.0	08/18/14 15:10	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/18/14 15:10	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/18/14 15:10	
Trichloroethene	ug/kg	ND	5.0	08/18/14 15:10	
Vinyl chloride	ug/kg	ND	5.0	08/18/14 15:10	
Xylene (Total)	ug/kg	ND	5.0	08/18/14 15:10	
1,2-Dichloroethane-d4 (S)	%	94	75-129	08/18/14 15:10	
4-Bromofluorobenzene (S)	%	94	76-123	08/18/14 15:10	
Toluene-d8 (S)	%	101	80-120	08/18/14 15:10	

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60175927

LABORATORY CONTROL SAMPLE: 1426687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	92.1	92	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	90.6	91	73-120	
1,1,2-Trichloroethane	ug/kg	100	86.1	86	76-120	
1,1-Dichloroethane	ug/kg	100	89.9	90	71-120	
1,1-Dichloroethene	ug/kg	100	90.1	90	76-130	
1,2-Dichloroethane	ug/kg	100	92.8	93	78-120	
1,2-Dichloropropane	ug/kg	100	90.3	90	80-120	
2-Butanone (MEK)	ug/kg	500	527	105	55-135	
2-Hexanone	ug/kg	500	458	92	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	475	95	71-128	
Acetone	ug/kg	500	460	92	43-144	
Benzene	ug/kg	100	89.2	89	80-120	
Bromodichloromethane	ug/kg	100	93.8	94	80-120	
Bromoform	ug/kg	100	95.0	95	75-124	
Bromomethane	ug/kg	100	113	113	38-150	
Carbon disulfide	ug/kg	100	102	102	58-137	
Carbon tetrachloride	ug/kg	100	92.0	92	75-140	
Chlorobenzene	ug/kg	100	89.6	90	80-120	
Chloroethane	ug/kg	100	97.4	97	65-127	
Chloroform	ug/kg	100	93.6	94	74-120	
Chloromethane	ug/kg	100	111	111	39-138	
cis-1,2-Dichloroethene	ug/kg	100	91.4	91	76-124	
cis-1,3-Dichloropropene	ug/kg	100	91.4	91	82-120	
Dibromochloromethane	ug/kg	100	93.0	93	80-124	
Ethylbenzene	ug/kg	100	88.1	88	80-120	
Methylene chloride	ug/kg	100	99.2	99	70-123	
Styrene	ug/kg	100	89.2	89	79-120	
Tetrachloroethene	ug/kg	100	85.0	85	78-128	
Toluene	ug/kg	100	89.4	89	79-120	
trans-1,2-Dichloroethene	ug/kg	100	85.8	86	76-124	
trans-1,3-Dichloropropene	ug/kg	100	86.6	87	80-124	
Trichloroethene	ug/kg	100	88.5	89	80-120	
Vinyl chloride	ug/kg	100	99.6	100	57-132	
Xylene (Total)	ug/kg	300	261	87	79-120	
1,2-Dichloroethane-d4 (S)	%			105	75-129	
4-Bromofluorobenzene (S)	%			99	76-123	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1426688 1426689

Parameter	Units	60175405007 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/kg	ND	117	119	84.2	93.9	72	79	21-144	11	43	
1,1,2,2-Tetrachloroethane	ug/kg	ND	117	119	92.9	106	79	88	10-151	13	46	
1,1,2-Trichloroethane	ug/kg	ND	117	119	91.6	97.3	78	82	10-140	6	46	

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60175927

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1426688 1426689

Parameter	Units	60175405007 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/kg	ND	117	119	90.0	99.5	77	83	19-137	10	43	
1,1-Dichloroethene	ug/kg	ND	117	119	86.1	95.2	73	80	27-143	10	41	
1,2-Dichloroethane	ug/kg	ND	117	119	89.4	99.7	76	84	21-147	11	38	
1,2-Dichloropropane	ug/kg	ND	117	119	87.4	93.0	74	78	15-145	6	43	
2-Butanone (MEK)	ug/kg	0.032 mg/kg	587	597	501	548	80	86	10-160	9	50	
2-Hexanone	ug/kg	ND	587	597	448	502	76	84	10-160	11	50	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	587	597	476	516	81	86	10-152	8	47	
Acetone	ug/kg	0.18 mg/kg	587	597	554	608	63	71	10-160	9	49	
Benzene	ug/kg	ND	117	119	81.7	91.5	70	77	22-144	11	38	
Bromodichloromethane	ug/kg	ND	117	119	85.3	91.9	73	77	10-143	7	42	
Bromoform	ug/kg	ND	117	119	68.5	73.6	58	62	10-145	7	44	
Bromomethane	ug/kg	ND	117	119	89.2	114	76	96	10-137	25	47	
Carbon disulfide	ug/kg	ND	117	119	87.4	99.5	73	82	10-142	13	44	
Carbon tetrachloride	ug/kg	ND	117	119	76.6	86.5	65	72	15-153	12	45	
Chlorobenzene	ug/kg	ND	117	119	65.6	70.6	56	59	10-145	7	46	
Chloroethane	ug/kg	ND	117	119	98.5	110	84	92	17-134	11	42	
Chloroform	ug/kg	ND	117	119	89.5	92.9	76	78	17-138	4	44	
Chloromethane	ug/kg	ND	117	119	113	122	96	102	10-128	8	39	
cis-1,2-Dichloroethene	ug/kg	ND	117	119	88.7	96.8	75	81	17-140	9	46	
cis-1,3-Dichloropropene	ug/kg	ND	117	119	70.3	76.8	60	64	10-142	9	43	
Dibromochloromethane	ug/kg	ND	117	119	78.8	85.0	67	71	10-149	8	42	
Ethylbenzene	ug/kg	ND	117	119	67.4	71.0	57	59	10-154	5	42	
Methylene chloride	ug/kg	ND	117	119	104	119	86	97	15-140	13	46	
Styrene	ug/kg	ND	117	119	53.5	55.2	46	46	10-142	3	44	
Tetrachloroethene	ug/kg	ND	117	119	64.5	70.5	55	59	10-150	9	48	
Toluene	ug/kg	ND	117	119	72.8	79.8	62	67	11-150	9	40	
trans-1,2-Dichloroethene	ug/kg	ND	117	119	78.9	90.7	67	76	20-140	14	42	
trans-1,3-Dichloropropene	ug/kg	ND	117	119	67.8	72.8	58	61	10-149	7	41	
Trichloroethene	ug/kg	ND	117	119	75.1	83.0	64	70	14-146	10	45	
Vinyl chloride	ug/kg	ND	117	119	95.4	105	81	88	19-131	10	37	
Xylene (Total)	ug/kg	ND	352	358	189	194	54	54	10-154	3	41	
1,2-Dichloroethane-d4 (S)	%						101	102	75-129			
4-Bromofluorobenzene (S)	%						98	96	76-123			
Toluene-d8 (S)	%						100	100	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

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60175927

QC Batch: PMST/9917 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60175927001, 60175927002, 60175927003, 60175927004, 60175927005, 60175927006, 60175927007

METHOD BLANK: 1427485 Matrix: Solid
Associated Lab Samples: 60175927001, 60175927002, 60175927003, 60175927004, 60175927005, 60175927006, 60175927007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/18/14 00:00	

SAMPLE DUPLICATE: 1427486

Parameter	Units	60175925001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	30.7	30.6	0	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

Pace Analytical Services, Inc.
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QUALIFIERS

Project: Fort Smith, AR
Pace Project No.: 60175927

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fort Smith, AR
Pace Project No.: 60175927

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60175927001	**DP-48-SL (4.0 FT)-20140814**	EPA 8260	MSV/63624		
60175927002	**DP-48-SL (11.5 FT)-20140814**	EPA 8260	MSV/63624		
60175927003	**DP-49-SL (4.0 FT)-20140814**	EPA 8260	MSV/63624		
60175927004	**DP-49-SL (10.0 FT)-20140814**	EPA 8260	MSV/63624		
60175927005	**DP-49-SL (13.0 FT)-20140814**	EPA 8260	MSV/63624		
60175927006	**DP-50-SL (4.0 FT)-20140814**	EPA 8260	MSV/63624		
60175927007	**DP-50-SL (10.0 FT)-20140814**	EPA 8260	MSV/63624		
60175927008	**TB17-20140814**	EPA 8260	MSV/63624		
60175927001	**DP-48-SL (4.0 FT)-20140814**	ASTM D2974	PMST/9917		
60175927002	**DP-48-SL (11.5 FT)-20140814**	ASTM D2974	PMST/9917		
60175927003	**DP-49-SL (4.0 FT)-20140814**	ASTM D2974	PMST/9917		
60175927004	**DP-49-SL (10.0 FT)-20140814**	ASTM D2974	PMST/9917		
60175927005	**DP-49-SL (13.0 FT)-20140814**	ASTM D2974	PMST/9917		
60175927006	**DP-50-SL (4.0 FT)-20140814**	ASTM D2974	PMST/9917		
60175927007	**DP-50-SL (10.0 FT)-20140814**	ASTM D2974	PMST/9917		

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Sample Condition Upon Receipt

WO# : 60175927

60175927

Client Name: Envirn

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☑ via

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 ☑ zip

Thermometer Used: (T-239) T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: AH 8/16

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. kits
Rush Turn Around Time requested:	☑Yes ☐No ☐N/A	7. 24hrs
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: WS SL	amb 8/16	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, TOC, O&G, WI-DRO (water), Phenolics	☐Yes ☑No	Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 070113-3		15.
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☑No ☐N/A	17. List State: AL

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW Date: 8/18/14

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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:	24 Hr.

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 ______

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	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	8260 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60175927
1	DP-48-SL (4.0 FT)-20140814	SL	G			8/14/14	1035		5	X						X	X	X		1(B0x2)1(D69M)1(D69B)2(V69U) 001
2	DP-48-SL (11.5 FT)-20140814	↓	↓			↓	1050		↓	↓						↓	↓	↓		002
3	DP-49-SL (4.0 FT)-20140814	↓	↓			↓	1235		↓	↓						↓	↓	↓		003
4	DP-49-SL (10.0 FT)-20140814	↓	↓			↓	1240		↓	↓						↓	↓	↓		004
5	DP-49-SL (13.0 FT)-20140814	↓	↓			↓	1255		↓	↓						↓	↓	↓		005
6	DP-50-SL (4.0 FT)-20140814	↓	↓			↓	1430		↓	↓						↓	↓	↓		006
7	DP-50-SL (10.0 FT)-20140814	↓	↓			↓	1445		↓	↓						↓	↓	↓		007
8	Trip Blank 09-082014	WT							2	↓								↓		008
9	Temp Blank	WT							1	↓										
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
24 Hr. TAT!	[signature] / ENVIRON	8/14/14	1730	[signature] / PAM	8/16	235	3.2	Y	Y	Y
	[signature]	8/15/14	1745							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/14/14

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

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 21, 2014

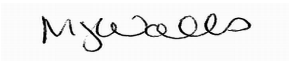
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: Ft. Smith AR
Pace Project No.: 60176049

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on August 19, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: EDD, Environ_AR
Tamara Gleason, ENVIRON International Corporation

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: Ft. Smith AR
Pace Project No.: 60176049

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Ft. Smith AR
Pace Project No.: 60176049

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60176049001	**DP-49-GW-20140817**	Water	08/17/14 08:54	08/19/14 02:00
60176049002	**NE-MANHOLE-SW-20140818**	Water	08/18/14 17:15	08/19/14 02:00
60176049003	**WEST-SW-20140818**	Water	08/18/14 17:15	08/19/14 02:00
60176049004	**TB20-20140818**	Water	08/17/14 08:54	08/19/14 02:00

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SAMPLE ANALYTE COUNT

Project: Ft. Smith AR
Pace Project No.: 60176049

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60176049001	**DP-49-GW-20140817**	EPA 5030B/8260	PRG	38
60176049002	**NE-MANHOLE-SW-20140818**	EPA 5030B/8260	PRG	26
60176049003	**WEST-SW-20140818**	EPA 5030B/8260	PRG	26
60176049004	**TB20-20140818**	EPA 5030B/8260	PRG	38

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
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PROJECT NARRATIVE

Project: Ft. Smith AR
Pace Project No.: 60176049

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: August 21, 2014

General Information:
4 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

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/63778

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: Ft. Smith AR
Pace Project No.: 60176049

Sample: DP-49-GW-20140817 **Lab ID: 60176049001** Collected: 08/17/14 08:54 Received: 08/19/14 02:00 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	5.0	1		08/20/14 22:36	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/20/14 22:36	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		08/20/14 22:36	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		08/20/14 22:36	74-83-9	
2-Butanone (MEK)	**16.4**	ug/L	10.0	5.0	1		08/20/14 22:36	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		08/20/14 22:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/20/14 22:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/20/14 22:36	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/20/14 22:36	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/20/14 22:36	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/20/14 22:36	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/20/14 22:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/20/14 22:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/20/14 22:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/20/14 22:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		08/20/14 22:36	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/20/14 22:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		08/20/14 22:36	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/20/14 22:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:36	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/20/14 22:36	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		08/20/14 22:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		08/20/14 22:36	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		08/20/14 22:36	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		08/20/14 22:36	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/20/14 22:36		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith AR
Pace Project No.: 60176049

Sample: NE-MANHOLE-SW-20140818 **Lab ID: 60176049002** Collected: 08/18/14 17:15 Received: 08/19/14 02:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/20/14 22:50	75-27-4	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/20/14 22:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/20/14 22:50	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/20/14 22:50	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/20/14 22:50	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/20/14 22:50	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/20/14 22:50	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/20/14 22:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/20/14 22:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/20/14 22:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/20/14 22:50	10061-02-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/20/14 22:50	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/20/14 22:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:50	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:50	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/20/14 22:50	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		08/20/14 22:50	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		08/20/14 22:50	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		08/20/14 22:50	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/20/14 22:50		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith AR
Pace Project No.: 60176049

Sample: WEST-SW-20140818 **Lab ID: 60176049003** Collected: 08/18/14 17:15 Received: 08/19/14 02:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/20/14 23:04	75-27-4	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/20/14 23:04	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/20/14 23:04	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/20/14 23:04	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/20/14 23:04	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/20/14 23:04	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/20/14 23:04	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/20/14 23:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 23:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 23:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 23:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 23:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/20/14 23:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/20/14 23:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/20/14 23:04	10061-02-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/20/14 23:04	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/20/14 23:04	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/20/14 23:04	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 23:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 23:04	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 23:04	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/20/14 23:04	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		08/20/14 23:04	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		08/20/14 23:04	17060-07-0	
Toluene-d8 (S)	92	%	80-120		1		08/20/14 23:04	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/20/14 23:04		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith AR
Pace Project No.: 60176049

Sample: TB20-20140818 **Lab ID: 60176049004** Collected: 08/17/14 08:54 Received: 08/19/14 02:00 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	5.0	1		08/20/14 22:07	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/20/14 22:07	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		08/20/14 22:07	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		08/20/14 22:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		08/20/14 22:07	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		08/20/14 22:07	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/20/14 22:07	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/20/14 22:07	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/20/14 22:07	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/20/14 22:07	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/20/14 22:07	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/20/14 22:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/20/14 22:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/20/14 22:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/20/14 22:07	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		08/20/14 22:07	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/20/14 22:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		08/20/14 22:07	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/20/14 22:07	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:07	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/20/14 22:07	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		08/20/14 22:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		08/20/14 22:07	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		08/20/14 22:07	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		08/20/14 22:07	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/20/14 22:07		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith AR
Pace Project No.: 60176049

QC Batch: MSV/63778 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60176049001, 60176049002, 60176049003, 60176049004

METHOD BLANK: 1428967 Matrix: Water
Associated Lab Samples: 60176049001, 60176049002, 60176049003, 60176049004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	08/20/14 21:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/20/14 21:39	
1,1,2-Trichloroethane	ug/L	ND	5.0	08/20/14 21:39	
1,1-Dichloroethane	ug/L	ND	2.4	08/20/14 21:39	
1,1-Dichloroethene	ug/L	ND	5.0	08/20/14 21:39	
1,2-Dichloroethane	ug/L	ND	5.0	08/20/14 21:39	
1,2-Dichloropropane	ug/L	ND	5.0	08/20/14 21:39	
2-Butanone (MEK)	ug/L	ND	10.0	08/20/14 21:39	
2-Hexanone	ug/L	ND	10.0	08/20/14 21:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	08/20/14 21:39	
Acetone	ug/L	ND	10.0	08/20/14 21:39	
Benzene	ug/L	ND	5.0	08/20/14 21:39	
Bromodichloromethane	ug/L	ND	5.0	08/20/14 21:39	
Bromoform	ug/L	ND	5.0	08/20/14 21:39	
Bromomethane	ug/L	ND	7.0	08/20/14 21:39	
Carbon disulfide	ug/L	ND	10.0	08/20/14 21:39	
Carbon tetrachloride	ug/L	ND	5.0	08/20/14 21:39	
Chlorobenzene	ug/L	ND	5.0	08/20/14 21:39	
Chloroethane	ug/L	ND	10.0	08/20/14 21:39	
Chloroform	ug/L	ND	5.0	08/20/14 21:39	
Chloromethane	ug/L	ND	10.0	08/20/14 21:39	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/20/14 21:39	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/20/14 21:39	
Dibromochloromethane	ug/L	ND	5.0	08/20/14 21:39	
Ethylbenzene	ug/L	ND	5.0	08/20/14 21:39	
Methylene chloride	ug/L	ND	5.0	08/20/14 21:39	
Styrene	ug/L	ND	5.0	08/20/14 21:39	
Tetrachloroethene	ug/L	ND	5.0	08/20/14 21:39	
Toluene	ug/L	ND	5.0	08/20/14 21:39	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/20/14 21:39	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/20/14 21:39	
Trichloroethene	ug/L	ND	5.0	08/20/14 21:39	
Vinyl chloride	ug/L	ND	2.0	08/20/14 21:39	
Xylene (Total)	ug/L	ND	5.0	08/20/14 21:39	
1,2-Dichloroethane-d4 (S)	%	96	80-120	08/20/14 21:39	
4-Bromofluorobenzene (S)	%	94	80-120	08/20/14 21:39	
Toluene-d8 (S)	%	93	80-120	08/20/14 21:39	

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith AR
Pace Project No.: 60176049

LABORATORY CONTROL SAMPLE: 1428968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.6	98	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	17.9	89	73-124	
1,1,2-Trichloroethane	ug/L	20	20.3	102	80-120	
1,1-Dichloroethane	ug/L	20	19.0	95	77-120	
1,1-Dichloroethene	ug/L	20	17.4	87	78-126	
1,2-Dichloroethane	ug/L	20	20.2	101	77-123	
1,2-Dichloropropane	ug/L	20	18.7	94	80-121	
2-Butanone (MEK)	ug/L	100	94.8	95	52-145	
2-Hexanone	ug/L	100	91.1	91	57-139	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.8	96	71-131	
Acetone	ug/L	100	98.2	98	32-155	
Benzene	ug/L	20	18.4	92	80-120	
Bromodichloromethane	ug/L	20	21.6	108	80-120	
Bromoform	ug/L	20	19.8	99	73-124	
Bromomethane	ug/L	20	16.1	80	31-144	
Carbon disulfide	ug/L	20	19.0	95	65-125	
Carbon tetrachloride	ug/L	20	19.4	97	78-128	
Chlorobenzene	ug/L	20	20.7	104	80-120	
Chloroethane	ug/L	20	18.1	91	55-137	
Chloroform	ug/L	20	19.5	97	79-120	
Chloromethane	ug/L	20	14.2	71	22-138	
cis-1,2-Dichloroethene	ug/L	20	19.1	95	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.1	96	80-120	
Dibromochloromethane	ug/L	20	21.0	105	80-120	
Ethylbenzene	ug/L	20	20.7	103	80-121	
Methylene chloride	ug/L	20	19.4	97	73-126	
Styrene	ug/L	20	21.1	105	80-120	
Tetrachloroethene	ug/L	20	20.4	102	80-121	
Toluene	ug/L	20	19.4	97	80-122	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	79-121	
trans-1,3-Dichloropropene	ug/L	20	19.7	98	80-127	
Trichloroethene	ug/L	20	19.0	95	80-120	
Vinyl chloride	ug/L	20	15.7	78	59-120	
Xylene (Total)	ug/L	60	58.9	98	80-121	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			94	80-120	
Toluene-d8 (S)	%			100	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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: Ft. Smith AR
Pace Project No.: 60176049

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/63778

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ft. Smith AR
Pace Project No.: 60176049

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60176049001	**DP-49-GW-20140817**	EPA 5030B/8260	MSV/63778		
60176049002	**NE-MANHOLE-SW-20140818**	EPA 5030B/8260	MSV/63778		
60176049003	**WEST-SW-20140818**	EPA 5030B/8260	MSV/63778		
60176049004	**TB20-20140818**	EPA 5030B/8260	MSV/63778		

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Sample Condition Upon Receipt

WO# : 60176049

60176049

Client Name: Enviro

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☑ via

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 ☑ zplc

Thermometer Used: T-239 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2-6

Date and initials of person examining contents: AH 8/19

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, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 061114-2DFD		15.
Headspace in VOA vials (>6mm):	☑Yes ☐No ☐N/A	1 of 2 TB headspace
		16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW Date: 8/19/14

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Chain-of-Custody and 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:	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:	MJ Walls
Requested Due Date/TAT:		Project Number:	3434446A	Pace Profile #:	7444 water, 7709 soil

REGULATORY AGENCY

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

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	8260 Chlorinated	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-49-GW-20140817	WT	G			8/17/14	0854		2				X					X				2(DGHL)
2	NE-Manhole-SW-20140818	WT	G			8/18/14	1715		3				X						X			3(DGHL)
3	WECT-SW-20140818	WT	G			8/18/14	1733		3				X						X			↓
4	Trip Blank 12-082014	WT							2				X					X				2(DGHL)
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
CALL WENDY STONESTREET FOR SPECIFIC LIST FOR CHLORINATED	[signature] / ENVIRON	8/18/14		[signature] / PASI	8/19	0200	2.6	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:	Michael Eddings					
SIGNATURE of SAMPLER:	[signature]	DATE Signed (MM/DD/YY): 8/18/14				

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 22, 2014

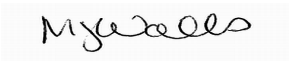
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: Ft. Smith Soil
Pace Project No.: 60176262

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on August 21, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: EDD, Environ_AR
Tamara Gleason, ENVIRON International Corporation

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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CERTIFICATIONS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
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

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SAMPLE SUMMARY

Project: Ft. Smith Soil
Pace Project No.: 60176262

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60176262001	**SED-01-SL-20140820**	Solid	08/20/14 12:45	08/21/14 01:30
60176262002	**SED-02-SL-20140820**	Solid	08/20/14 13:00	08/21/14 01:30
60176262003	**SED-03-SL-20140820**	Solid	08/20/14 13:15	08/21/14 01:30
60176262004	**SED-04-SL-20140820**	Solid	08/20/14 14:10	08/21/14 01:30
60176262005	**SED-05-SL-20140820**	Solid	08/20/14 14:50	08/21/14 01:30
60176262006	**SED-06-SL-20140820**	Solid	08/20/14 15:00	08/21/14 01:30
60176262007	**SED-07-SL-20140820**	Solid	08/20/14 15:10	08/21/14 01:30
60176262008	**SED-08-SL-20140820**	Solid	08/20/14 15:20	08/21/14 01:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Ft. Smith Soil
Pace Project No.: 60176262

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60176262001	**SED-01-SL-20140820**	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262002	**SED-02-SL-20140820**	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262003	**SED-03-SL-20140820**	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262004	**SED-04-SL-20140820**	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262005	**SED-05-SL-20140820**	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262006	**SED-06-SL-20140820**	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262007	**SED-07-SL-20140820**	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262008	**SED-08-SL-20140820**	EPA 8260	JKL	25
		ASTM D2974	DWC	1

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PROJECT NARRATIVE

Project: Ft. Smith Soil
Pace Project No.: 60176262

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: August 22, 2014

General Information:
8 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-01-SL-20140820 **Lab ID: 60176262001** Collected: 08/20/14 12:45 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Bromodichloromethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	75-27-4	
Carbon tetrachloride	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	108-90-7	
Chloroethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	75-00-3	
Chloroform	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	67-66-3	
Chloromethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	74-87-3	
Dibromochloromethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	10061-02-6	
Methylene chloride	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	79-34-5	
Tetrachloroethene	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	79-00-5	
Trichloroethene	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	79-01-6	
Vinyl chloride	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	75-01-4	
Surrogates									
Toluene-d8 (S)	99	%	80-120		1		08/21/14 17:02	2037-26-5	
4-Bromofluorobenzene (S)	99	%	76-123		1		08/21/14 17:02	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-129		1		08/21/14 17:02	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**17.7**	%	0.50	0.50	1		08/21/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-02-SL-20140820 **Lab ID: 60176262002** Collected: 08/20/14 13:00 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Bromodichloromethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	75-27-4	
Carbon tetrachloride	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	56-23-5	
Chlorobenzene	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	108-90-7	
Chloroethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	75-00-3	
Chloroform	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	67-66-3	
Chloromethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	74-87-3	
Dibromochloromethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	124-48-1	
1,1-Dichloroethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	10061-02-6	
Methylene chloride	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	79-34-5	
Tetrachloroethene	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	79-00-5	
Trichloroethene	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	79-01-6	
Vinyl chloride	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	75-01-4	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		08/21/14 17:17	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		08/21/14 17:17	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	75-129		1		08/21/14 17:17	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**21.1**	%	0.50	0.50	1		08/21/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-03-SL-20140820 **Lab ID: 60176262003** Collected: 08/20/14 13:15 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Bromodichloromethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	75-27-4	
Carbon tetrachloride	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	108-90-7	
Chloroethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	75-00-3	
Chloroform	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	67-66-3	
Chloromethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	74-87-3	
Dibromochloromethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	10061-02-6	
Methylene chloride	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	79-00-5	
Trichloroethene	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	79-01-6	
Vinyl chloride	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	75-01-4	
Surrogates									
Toluene-d8 (S)	99	%	80-120		1		08/21/14 17:32	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/21/14 17:32	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-129		1		08/21/14 17:32	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**16.1**	%	0.50	0.50	1		08/21/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Soil
Pace Project No.: 60176262

QC Batch: MSV/63820 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60176262001, 60176262002, 60176262003, 60176262004, 60176262005, 60176262006, 60176262007, 60176262008

METHOD BLANK: 1429862 Matrix: Solid
Associated Lab Samples: 60176262001, 60176262002, 60176262003, 60176262004, 60176262005, 60176262006, 60176262007, 60176262008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/21/14 16:16	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/21/14 16:16	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/21/14 16:16	
1,1-Dichloroethane	ug/kg	ND	5.0	08/21/14 16:16	
1,1-Dichloroethene	ug/kg	ND	5.0	08/21/14 16:16	
1,2-Dichloroethane	ug/kg	ND	5.0	08/21/14 16:16	
1,2-Dichloropropane	ug/kg	ND	5.0	08/21/14 16:16	
Bromodichloromethane	ug/kg	ND	5.0	08/21/14 16:16	
Carbon tetrachloride	ug/kg	ND	5.0	08/21/14 16:16	
Chlorobenzene	ug/kg	ND	5.0	08/21/14 16:16	
Chloroethane	ug/kg	ND	5.0	08/21/14 16:16	
Chloroform	ug/kg	ND	5.0	08/21/14 16:16	
Chloromethane	ug/kg	ND	5.0	08/21/14 16:16	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/21/14 16:16	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/21/14 16:16	
Dibromochloromethane	ug/kg	ND	5.0	08/21/14 16:16	
Methylene chloride	ug/kg	32.8	5.0	08/21/14 16:16	
Tetrachloroethene	ug/kg	ND	5.0	08/21/14 16:16	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/21/14 16:16	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/21/14 16:16	
Trichloroethene	ug/kg	ND	5.0	08/21/14 16:16	
Vinyl chloride	ug/kg	ND	5.0	08/21/14 16:16	
1,2-Dichloroethane-d4 (S)	%	92	75-129	08/21/14 16:16	
4-Bromofluorobenzene (S)	%	99	76-123	08/21/14 16:16	
Toluene-d8 (S)	%	100	80-120	08/21/14 16:16	

LABORATORY CONTROL SAMPLE: 1429863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	93.9	94	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	91.7	92	73-120	
1,1,2-Trichloroethane	ug/kg	100	91.2	91	76-120	
1,1-Dichloroethane	ug/kg	100	95.0	95	71-120	
1,1-Dichloroethene	ug/kg	100	101	101	76-130	
1,2-Dichloroethane	ug/kg	100	98.7	99	78-120	
1,2-Dichloropropane	ug/kg	100	95.7	96	80-120	
Bromodichloromethane	ug/kg	100	101	101	80-120	
Carbon tetrachloride	ug/kg	100	94.8	95	75-140	

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Soil
Pace Project No.: 60176262

LABORATORY CONTROL SAMPLE: 1429863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/kg	100	97.6	98	80-120	
Chloroethane	ug/kg	100	104	104	65-127	
Chloroform	ug/kg	100	93.5	94	74-120	
Chloromethane	ug/kg	100	123	123	39-138	
cis-1,2-Dichloroethene	ug/kg	100	101	101	76-124	
cis-1,3-Dichloropropene	ug/kg	100	95.4	95	82-120	
Dibromochloromethane	ug/kg	100	103	103	80-124	
Methylene chloride	ug/kg	100	106	106	70-123	
Tetrachloroethene	ug/kg	100	94.5	95	78-128	
trans-1,2-Dichloroethene	ug/kg	100	89.5	90	76-124	
trans-1,3-Dichloropropene	ug/kg	100	98.5	98	80-124	
Trichloroethene	ug/kg	100	92.0	92	80-120	
Vinyl chloride	ug/kg	100	106	106	57-132	
1,2-Dichloroethane-d4 (S)	%			101	75-129	
4-Bromofluorobenzene (S)	%			102	76-123	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1429864 1429865

Parameter	Units	60176101001 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/kg	ND	112	112	97.9	87.5	88	78	21-144	11	43	
1,1,2,2-Tetrachloroethane	ug/kg	ND	112	112	85.6	73.6	77	66	10-151	15	46	
1,1,2-Trichloroethane	ug/kg	ND	112	112	97.6	85.9	87	77	10-140	13	46	
1,1-Dichloroethane	ug/kg	ND	112	112	98.9	89.1	89	80	19-137	10	43	
1,1-Dichloroethene	ug/kg	ND	112	112	95.2	82.8	85	74	27-143	14	41	
1,2-Dichloroethane	ug/kg	ND	112	112	104	93.3	93	84	21-147	11	38	
1,2-Dichloropropane	ug/kg	ND	112	112	102	90.2	91	81	15-145	12	43	
Bromodichloromethane	ug/kg	ND	112	112	106	95.1	95	85	10-143	11	42	
Carbon tetrachloride	ug/kg	ND	112	112	100	88.8	90	80	15-153	12	45	
Chlorobenzene	ug/kg	ND	112	112	95.6	85.5	86	77	10-145	11	46	
Chloroethane	ug/kg	ND	112	112	119	106	107	95	17-134	11	42	
Chloroform	ug/kg	ND	112	112	100	87.1	90	78	17-138	14	44	
Chloromethane	ug/kg	ND	112	112	71.5	70.7	64	63	10-128	1	39	
cis-1,2-Dichloroethene	ug/kg	ND	112	112	101	92.5	90	83	17-140	9	46	
cis-1,3-Dichloropropene	ug/kg	ND	112	112	95.8	84.6	86	76	10-142	12	43	
Dibromochloromethane	ug/kg	ND	112	112	104	93.7	93	84	10-149	10	42	
Methylene chloride	ug/kg	ND	112	112	110	98.5	95	84	15-140	11	46	
Tetrachloroethene	ug/kg	ND	112	112	89.4	81.7	80	73	10-150	9	48	
trans-1,2-Dichloroethene	ug/kg	ND	112	112	87.6	76.4	79	68	20-140	14	42	
trans-1,3-Dichloropropene	ug/kg	ND	112	112	96.5	85.9	86	77	10-149	12	41	
Trichloroethene	ug/kg	ND	112	112	101	89.5	90	80	14-146	12	45	
Vinyl chloride	ug/kg	ND	112	112	76.4	70.9	68	64	19-131	7	37	
1,2-Dichloroethane-d4 (S)	%						101	101	75-129			
4-Bromofluorobenzene (S)	%						102	102	76-123			

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

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Soil
Pace Project No.: 60176262

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1429864 1429865

Parameter	Units	60176101001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%						101	100	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

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: Ft. Smith Soil
Pace Project No.: 60176262

QC Batch: PMST/9930 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60176262001, 60176262002, 60176262003, 60176262004, 60176262005, 60176262006, 60176262007, 60176262008

METHOD BLANK: 1429859 Matrix: Solid
Associated Lab Samples: 60176262001, 60176262002, 60176262003, 60176262004, 60176262005, 60176262006, 60176262007, 60176262008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/21/14 00:00	

SAMPLE DUPLICATE: 1429860

Parameter	Units	60176101001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.4	10.0	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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALIFIERS

Project: Ft. Smith Soil
Pace Project No.: 60176262

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ft. Smith Soil
Pace Project No.: 60176262

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60176262001	**SED-01-SL-20140820**	EPA 8260	MSV/63820		
60176262002	**SED-02-SL-20140820**	EPA 8260	MSV/63820		
60176262003	**SED-03-SL-20140820**	EPA 8260	MSV/63820		
60176262004	**SED-04-SL-20140820**	EPA 8260	MSV/63820		
60176262005	**SED-05-SL-20140820**	EPA 8260	MSV/63820		
60176262006	**SED-06-SL-20140820**	EPA 8260	MSV/63820		
60176262007	**SED-07-SL-20140820**	EPA 8260	MSV/63820		
60176262008	**SED-08-SL-20140820**	EPA 8260	MSV/63820		
60176262001	**SED-01-SL-20140820**	ASTM D2974	PMST/9930		
60176262002	**SED-02-SL-20140820**	ASTM D2974	PMST/9930		
60176262003	**SED-03-SL-20140820**	ASTM D2974	PMST/9930		
60176262004	**SED-04-SL-20140820**	ASTM D2974	PMST/9930		
60176262005	**SED-05-SL-20140820**	ASTM D2974	PMST/9930		
60176262006	**SED-06-SL-20140820**	ASTM D2974	PMST/9930		
60176262007	**SED-07-SL-20140820**	ASTM D2974	PMST/9930		
60176262008	**SED-08-SL-20140820**	ASTM D2974	PMST/9930		

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Sample Condition Upon Receipt

WO# : 60176262

60176262

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ VEA

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 ☑ ZPLC

Thermometer Used: T-239 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 0.8

Temperature should be above freezing to 6°C

Date and initials of person examining contents: NB 8/21/14

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. Kits
Rush Turn Around Time requested:	☑Yes ☐No ☐N/A	7. 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: SL		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, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	~~☐Yes~~ (No) ☐N/A	
Pace Trip Blank lot # (if purchased):	NB 8/21/14	15.
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☑No ☐N/A	17. List State: AR

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW Date: 8/21/14

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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:	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:	MJ Walls
Requested Due Date/TAT:	24 Hr TAT	Project Number:		Pace Profile #:	7444 water, 7709 soil

REGULATORY AGENCY

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

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	Analysis Test: 8260 client specific list	Analysis Test: 8260 Chlorinated	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SED-01-SL-20140820	SL	G			8/20/14	1245		5	X						X	X		1	X	Y	60176262
2	SED-02-SL-20140820						1300															
3	SED-03-SL-20140820						1315															
4	SED-04-SL-20140820						1410															
5	SED-05-SL-20140820						1450															
6	SED-06-SL-20140820						1500															
7	SED-07-SL-20140820						1510															
8	SED-08-SL-20140820						1520															
9																						
10																						
11																						
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)
24 Hr TAT!	ENVIRON	8/20/14	1800		8/21/14	0130	0.8	Y	Y	Y
Call Wendy Stonestreet for 8260 chlorinated specific list										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 8/20/14

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

October 24, 2014

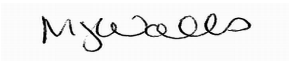
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH AR
Pace Project No.: 60180994

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on October 23, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: Tamara Gleason, ENVIRON International Corporation

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH AR
Pace Project No.: 60180994

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: FORT SMITH AR
Pace Project No.: 60180994

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60180994001	**MW-97-20141022**	Water	10/22/14 10:20	10/23/14 01:19
60180994002	**MW-99-20141022**	Water	10/22/14 11:05	10/23/14 01:19
60180994003	**MW-96-20141022**	Water	10/22/14 10:05	10/23/14 01:19
60180994004	**TRIP BLANK**	Water	10/22/14 09:30	10/23/14 01:19

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60180994

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60180994001	**MW-97-20141022**	EPA 5030B/8260	PRG	38
60180994002	**MW-99-20141022**	EPA 5030B/8260	PRG	38
60180994003	**MW-96-20141022**	EPA 5030B/8260	PRG	38
60180994004	**TRIP BLANK**	EPA 5030B/8260	PRG	38

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PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60180994

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: October 24, 2014

General Information:
4 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

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/65326

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.: 60180994

Sample: MW-97-20141022 **Lab ID: 60180994001** Collected: 10/22/14 10:20 Received: 10/23/14 01:19 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	5.0	1		10/24/14 09:57	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		10/24/14 09:57	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		10/24/14 09:57	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		10/24/14 09:57	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		10/24/14 09:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		10/24/14 09:57	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		10/24/14 09:57	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		10/24/14 09:57	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		10/24/14 09:57	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		10/24/14 09:57	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		10/24/14 09:57	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		10/24/14 09:57	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		10/24/14 09:57	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		10/24/14 09:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		10/24/14 09:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		10/24/14 09:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/24/14 09:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/24/14 09:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		10/24/14 09:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/24/14 09:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/24/14 09:57	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		10/24/14 09:57	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		10/24/14 09:57	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		10/24/14 09:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		10/24/14 09:57	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		10/24/14 09:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		10/24/14 09:57	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		10/24/14 09:57	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		10/24/14 09:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		10/24/14 09:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		10/24/14 09:57	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		10/24/14 09:57	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		10/24/14 09:57	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		10/24/14 09:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	80-120		1		10/24/14 09:57	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	80-120		1		10/24/14 09:57	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		10/24/14 09:57	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		10/24/14 09:57		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60180994

Sample: MW-99-20141022 **Lab ID: 60180994002** Collected: 10/22/14 11:05 Received: 10/23/14 01:19 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	5.0	1		10/24/14 10:13	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		10/24/14 10:13	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		10/24/14 10:13	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		10/24/14 10:13	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		10/24/14 10:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		10/24/14 10:13	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		10/24/14 10:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		10/24/14 10:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		10/24/14 10:13	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		10/24/14 10:13	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		10/24/14 10:13	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		10/24/14 10:13	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		10/24/14 10:13	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		10/24/14 10:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		10/24/14 10:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		10/24/14 10:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/24/14 10:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/24/14 10:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		10/24/14 10:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/24/14 10:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/24/14 10:13	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		10/24/14 10:13	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		10/24/14 10:13	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		10/24/14 10:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		10/24/14 10:13	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		10/24/14 10:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		10/24/14 10:13	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		10/24/14 10:13	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		10/24/14 10:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		10/24/14 10:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		10/24/14 10:13	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		10/24/14 10:13	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		10/24/14 10:13	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		10/24/14 10:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		10/24/14 10:13	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120		1		10/24/14 10:13	17060-07-0	
Toluene-d8 (S)	93	%	80-120		1		10/24/14 10:13	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		10/24/14 10:13		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60180994

Sample: MW-96-20141022 **Lab ID: 60180994003** Collected: 10/22/14 10:05 Received: 10/23/14 01:19 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	5.0	1		10/24/14 10:29	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		10/24/14 10:29	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		10/24/14 10:29	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		10/24/14 10:29	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		10/24/14 10:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		10/24/14 10:29	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		10/24/14 10:29	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		10/24/14 10:29	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		10/24/14 10:29	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		10/24/14 10:29	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		10/24/14 10:29	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		10/24/14 10:29	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		10/24/14 10:29	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		10/24/14 10:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		10/24/14 10:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		10/24/14 10:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/24/14 10:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/24/14 10:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		10/24/14 10:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/24/14 10:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/24/14 10:29	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		10/24/14 10:29	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		10/24/14 10:29	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		10/24/14 10:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		10/24/14 10:29	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		10/24/14 10:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		10/24/14 10:29	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		10/24/14 10:29	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		10/24/14 10:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		10/24/14 10:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		10/24/14 10:29	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		10/24/14 10:29	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		10/24/14 10:29	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		10/24/14 10:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		10/24/14 10:29	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120		1		10/24/14 10:29	17060-07-0	
Toluene-d8 (S)	93	%	80-120		1		10/24/14 10:29	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		10/24/14 10:29		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60180994

Sample: TRIP BLANK **Lab ID: 60180994004** Collected: 10/22/14 09:30 Received: 10/23/14 01:19 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	5.0	1		10/24/14 09:41	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		10/24/14 09:41	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		10/24/14 09:41	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		10/24/14 09:41	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		10/24/14 09:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		10/24/14 09:41	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		10/24/14 09:41	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		10/24/14 09:41	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		10/24/14 09:41	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		10/24/14 09:41	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		10/24/14 09:41	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		10/24/14 09:41	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		10/24/14 09:41	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		10/24/14 09:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		10/24/14 09:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		10/24/14 09:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/24/14 09:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/24/14 09:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		10/24/14 09:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/24/14 09:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/24/14 09:41	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		10/24/14 09:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		10/24/14 09:41	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		10/24/14 09:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		10/24/14 09:41	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		10/24/14 09:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		10/24/14 09:41	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		10/24/14 09:41	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		10/24/14 09:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		10/24/14 09:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		10/24/14 09:41	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		10/24/14 09:41	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		10/24/14 09:41	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		10/24/14 09:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		10/24/14 09:41	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120		1		10/24/14 09:41	17060-07-0	
Toluene-d8 (S)	93	%	80-120		1		10/24/14 09:41	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		10/24/14 09:41		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60180994

QC Batch: MSV/65326 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60180994001, 60180994002, 60180994003, 60180994004

METHOD BLANK: 1466674 Matrix: Water
Associated Lab Samples: 60180994001, 60180994002, 60180994003, 60180994004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/24/14 09:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/24/14 09:25	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/24/14 09:25	
1,1-Dichloroethane	ug/L	ND	2.4	10/24/14 09:25	
1,1-Dichloroethene	ug/L	ND	5.0	10/24/14 09:25	
1,2-Dichloroethane	ug/L	ND	5.0	10/24/14 09:25	
1,2-Dichloropropane	ug/L	ND	5.0	10/24/14 09:25	
2-Butanone (MEK)	ug/L	ND	10.0	10/24/14 09:25	
2-Hexanone	ug/L	ND	10.0	10/24/14 09:25	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/24/14 09:25	
Acetone	ug/L	ND	10.0	10/24/14 09:25	
Benzene	ug/L	ND	5.0	10/24/14 09:25	
Bromodichloromethane	ug/L	ND	5.0	10/24/14 09:25	
Bromoform	ug/L	ND	5.0	10/24/14 09:25	
Bromomethane	ug/L	ND	7.0	10/24/14 09:25	
Carbon disulfide	ug/L	ND	10.0	10/24/14 09:25	
Carbon tetrachloride	ug/L	ND	5.0	10/24/14 09:25	
Chlorobenzene	ug/L	ND	5.0	10/24/14 09:25	
Chloroethane	ug/L	ND	10.0	10/24/14 09:25	
Chloroform	ug/L	ND	5.0	10/24/14 09:25	
Chloromethane	ug/L	ND	10.0	10/24/14 09:25	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/24/14 09:25	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/24/14 09:25	
Dibromochloromethane	ug/L	ND	5.0	10/24/14 09:25	
Ethylbenzene	ug/L	ND	5.0	10/24/14 09:25	
Methylene chloride	ug/L	ND	5.0	10/24/14 09:25	
Styrene	ug/L	ND	5.0	10/24/14 09:25	
Tetrachloroethene	ug/L	ND	5.0	10/24/14 09:25	
Toluene	ug/L	ND	5.0	10/24/14 09:25	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/24/14 09:25	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/24/14 09:25	
Trichloroethene	ug/L	ND	5.0	10/24/14 09:25	
Vinyl chloride	ug/L	ND	2.0	10/24/14 09:25	
Xylene (Total)	ug/L	ND	5.0	10/24/14 09:25	
1,2-Dichloroethane-d4 (S)	%	97	80-120	10/24/14 09:25	
4-Bromofluorobenzene (S)	%	94	80-120	10/24/14 09:25	
Toluene-d8 (S)	%	95	80-120	10/24/14 09:25	

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60180994

LABORATORY CONTROL SAMPLE: 1466675

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.2	96	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	20.6	103	73-124	
1,1,2-Trichloroethane	ug/L	20	19.3	96	80-120	
1,1-Dichloroethane	ug/L	20	18.7	93	77-120	
1,1-Dichloroethene	ug/L	20	19.9	99	78-126	
1,2-Dichloroethane	ug/L	20	18.8	94	77-123	
1,2-Dichloropropane	ug/L	20	18.2	91	80-121	
2-Butanone (MEK)	ug/L	100	76.0	76	52-145	
2-Hexanone	ug/L	100	87.6	88	57-139	
4-Methyl-2-pentanone (MIBK)	ug/L	100	83.4	83	71-131	
Acetone	ug/L	100	80.5	80	32-155	
Benzene	ug/L	20	19.0	95	80-120	
Bromodichloromethane	ug/L	20	18.7	94	80-120	
Bromoform	ug/L	20	17.8	89	73-124	
Bromomethane	ug/L	20	16.2	81	31-144	
Carbon disulfide	ug/L	20	20.0	100	65-125	
Carbon tetrachloride	ug/L	20	18.6	93	78-128	
Chlorobenzene	ug/L	20	20.0	100	80-120	
Chloroethane	ug/L	20	18.7	93	55-137	
Chloroform	ug/L	20	19.1	95	79-120	
Chloromethane	ug/L	20	19.5	98	22-138	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	80-120	
cis-1,3-Dichloropropene	ug/L	20	18.0	90	80-120	
Dibromochloromethane	ug/L	20	19.7	99	80-120	
Ethylbenzene	ug/L	20	19.8	99	80-121	
Methylene chloride	ug/L	20	18.2	91	73-126	
Styrene	ug/L	20	21.3	106	80-120	
Tetrachloroethene	ug/L	20	19.4	97	80-121	
Toluene	ug/L	20	18.5	92	80-122	
trans-1,2-Dichloroethene	ug/L	20	20.0	100	79-121	
trans-1,3-Dichloropropene	ug/L	20	20.9	104	80-127	
Trichloroethene	ug/L	20	18.2	91	80-120	
Vinyl chloride	ug/L	20	18.4	92	59-120	
Xylene (Total)	ug/L	60	61.8	103	80-121	
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH AR
Pace Project No.: 60180994

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/65326

[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.: 60180994

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60180994001	**MW-97-20141022**	EPA 5030B/8260	MSV/65326		
60180994002	**MW-99-20141022**	EPA 5030B/8260	MSV/65326		
60180994003	**MW-96-20141022**	EPA 5030B/8260	MSV/65326		
60180994004	**TRIP BLANK**	EPA 5030B/8260	MSV/65326		

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Sample Condition Upon Receipt

WO#: 60180994

60180994

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other ☐ Via

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: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.6

Temperature should be above freezing to 6°C

Date and initials of person examining contents: CW 10-23-14

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. 24 hr
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, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): Current		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW Date: 10/23/14

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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:	24 hr

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

Site Location STATE: AR

Requested Analysis Filtered (Y/N)

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	8260 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-97-20141022	WT	G			10/22/14	1020		3				X					X	X		60180994 3(D69H) a,
2	MW-99-20141022	WT	G			10/22/14	1105		3				X					X	X		a,
3	MW-96-20141022	WT	G			10/22/14	1005		3				X					X	X		a,
4	Trip Blank *	WT	G			10/22/14	0930		2				X					X	X		2(D69H) a,
5																					
6																					
7																					
8																					
9	* Please report trip blanks																				
10	on other two reports as																				
11	well.																				
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)
	Victoria Siegfen	10/22/14	1730	[illegible]	10-23	0119	3.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Victoria Siegfen

SIGNATURE of SAMPLER: Victoria Siegfen DATE Signed (MM/DD/YY): 10/22/14

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

Pace Analytical Services, Inc.
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October 29, 2014

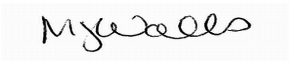
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60180642

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on October 17, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: Tamara Gleason, ENVIRON International Corporation

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CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60180642

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60180642

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60180642001	**MW-91-201410**	Water	10/16/14 13:30	10/17/14 11:05
60180642002	**MW-88-201410**	Water	10/16/14 11:37	10/17/14 11:05
60180642003	**MW-87-201410**	Water	10/16/14 13:17	10/17/14 11:05
60180642004	**MW-89-201410**	Water	10/15/14 17:34	10/17/14 11:05
60180642005	**MW-90-201410**	Water	10/16/14 09:40	10/17/14 11:05
60180642006	**TB-04-201410**	Water	10/16/14 08:00	10/17/14 11:05

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60180642

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60180642001	**MW-91-201410**	EPA 5030B/8260	PRG	38
60180642002	**MW-88-201410**	EPA 5030B/8260	PRG	38
60180642003	**MW-87-201410**	EPA 5030B/8260	PRG	38
60180642004	**MW-89-201410**	EPA 5030B/8260	PRG	38
60180642005	**MW-90-201410**	EPA 5030B/8260	PRG	38
60180642006	**TB-04-201410**	EPA 5030B/8260	PRG	38

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60180642

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: October 29, 2014

General Information:
6 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

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/65211

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/65266

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.: 60180642

Sample: MW-91-201410 **Lab ID: 60180642001** Collected: 10/16/14 13:30 Received: 10/17/14 11:05 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	5.0	1		10/22/14 15:48	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		10/22/14 15:48	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		10/22/14 15:48	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		10/22/14 15:48	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		10/22/14 15:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		10/22/14 15:48	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		10/22/14 15:48	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		10/22/14 15:48	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		10/22/14 15:48	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		10/22/14 15:48	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		10/22/14 15:48	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		10/22/14 15:48	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		10/22/14 15:48	124-48-1	
1,1-Dichloroethane	**1.2J**	ug/L	2.4	0.50	1		10/22/14 15:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		10/22/14 15:48	107-06-2	
1,1-Dichloroethene	**3.5J**	ug/L	5.0	0.50	1		10/22/14 15:48	75-35-4	
cis-1,2-Dichloroethene	**28.8**	ug/L	5.0	0.50	1		10/22/14 15:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/22/14 15:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		10/22/14 15:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/22/14 15:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/22/14 15:48	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		10/22/14 15:48	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		10/22/14 15:48	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		10/22/14 15:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		10/22/14 15:48	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		10/22/14 15:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		10/22/14 15:48	79-34-5	
Tetrachloroethene	**1.4J**	ug/L	5.0	0.50	1		10/22/14 15:48	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		10/22/14 15:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		10/22/14 15:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		10/22/14 15:48	79-00-5	
Trichloroethene	**319**	ug/L	25.0	2.5	5		10/21/14 08:22	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		10/22/14 15:48	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		10/22/14 15:48	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	80-120		1		10/22/14 15:48	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120		1		10/22/14 15:48	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		10/22/14 15:48	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		10/22/14 15:48		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60180642

Sample: MW-88-201410 **Lab ID: 60180642002** Collected: 10/16/14 11:37 Received: 10/17/14 11:05 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	5.0	1		10/21/14 05:41	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		10/21/14 05:41	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		10/21/14 05:41	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		10/21/14 05:41	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		10/21/14 05:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		10/21/14 05:41	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		10/21/14 05:41	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		10/21/14 05:41	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		10/21/14 05:41	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		10/21/14 05:41	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		10/21/14 05:41	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		10/21/14 05:41	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		10/21/14 05:41	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		10/21/14 05:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		10/21/14 05:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		10/21/14 05:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/21/14 05:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/21/14 05:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		10/21/14 05:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/21/14 05:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/21/14 05:41	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		10/21/14 05:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		10/21/14 05:41	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		10/21/14 05:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		10/21/14 05:41	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		10/21/14 05:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		10/21/14 05:41	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		10/21/14 05:41	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		10/21/14 05:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		10/21/14 05:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		10/21/14 05:41	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		10/21/14 05:41	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		10/21/14 05:41	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		10/21/14 05:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	80-120		1		10/21/14 05:41	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		10/21/14 05:41	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		10/21/14 05:41	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		10/21/14 05:41		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60180642

Sample: MW-87-201410 **Lab ID: 60180642003** Collected: 10/16/14 13:17 Received: 10/17/14 11:05 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	5.0	1		10/22/14 16:04	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		10/22/14 16:04	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		10/22/14 16:04	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		10/22/14 16:04	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		10/22/14 16:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		10/22/14 16:04	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		10/22/14 16:04	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		10/22/14 16:04	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		10/22/14 16:04	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		10/22/14 16:04	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		10/22/14 16:04	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		10/22/14 16:04	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		10/22/14 16:04	124-48-1	
1,1-Dichloroethane	**2.2J**	ug/L	2.4	0.50	1		10/22/14 16:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		10/22/14 16:04	107-06-2	
1,1-Dichloroethene	**6.2**	ug/L	5.0	0.50	1		10/22/14 16:04	75-35-4	
cis-1,2-Dichloroethene	**47.8**	ug/L	5.0	0.50	1		10/22/14 16:04	156-59-2	
trans-1,2-Dichloroethene	**0.56J**	ug/L	5.0	0.50	1		10/22/14 16:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		10/22/14 16:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/22/14 16:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/22/14 16:04	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		10/22/14 16:04	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		10/22/14 16:04	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		10/22/14 16:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		10/22/14 16:04	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		10/22/14 16:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		10/22/14 16:04	79-34-5	
Tetrachloroethene	**2.5J**	ug/L	5.0	0.50	1		10/22/14 16:04	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		10/22/14 16:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		10/22/14 16:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		10/22/14 16:04	79-00-5	
Trichloroethene	**594**	ug/L	50.0	5.0	10		10/21/14 07:50	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		10/22/14 16:04	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		10/22/14 16:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		10/22/14 16:04	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120		1		10/22/14 16:04	17060-07-0	
Toluene-d8 (S)	95	%	80-120		1		10/22/14 16:04	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		10/22/14 16:04		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60180642

Sample: MW-89-201410 **Lab ID: 60180642004** Collected: 10/15/14 17:34 Received: 10/17/14 11:05 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	5.0	1		10/21/14 05:58	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		10/21/14 05:58	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		10/21/14 05:58	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		10/21/14 05:58	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		10/21/14 05:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		10/21/14 05:58	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		10/21/14 05:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		10/21/14 05:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		10/21/14 05:58	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		10/21/14 05:58	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		10/21/14 05:58	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		10/21/14 05:58	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		10/21/14 05:58	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		10/21/14 05:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		10/21/14 05:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		10/21/14 05:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/21/14 05:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/21/14 05:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		10/21/14 05:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/21/14 05:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/21/14 05:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		10/21/14 05:58	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		10/21/14 05:58	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		10/21/14 05:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		10/21/14 05:58	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		10/21/14 05:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		10/21/14 05:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		10/21/14 05:58	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		10/21/14 05:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		10/21/14 05:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		10/21/14 05:58	79-00-5	
Trichloroethene	**11.3**	ug/L	5.0	0.50	1		10/21/14 05:58	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		10/21/14 05:58	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		10/21/14 05:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		10/21/14 05:58	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		10/21/14 05:58	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		10/21/14 05:58	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		10/21/14 05:58		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60180642

Sample: MW-90-201410 **Lab ID: 60180642005** Collected: 10/16/14 09:40 Received: 10/17/14 11:05 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	5.0	1		10/21/14 06:14	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		10/21/14 06:14	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		10/21/14 06:14	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		10/21/14 06:14	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		10/21/14 06:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		10/21/14 06:14	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		10/21/14 06:14	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		10/21/14 06:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		10/21/14 06:14	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		10/21/14 06:14	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		10/21/14 06:14	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		10/21/14 06:14	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		10/21/14 06:14	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		10/21/14 06:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		10/21/14 06:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		10/21/14 06:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/21/14 06:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/21/14 06:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		10/21/14 06:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/21/14 06:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/21/14 06:14	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		10/21/14 06:14	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		10/21/14 06:14	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		10/21/14 06:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		10/21/14 06:14	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		10/21/14 06:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		10/21/14 06:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		10/21/14 06:14	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		10/21/14 06:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		10/21/14 06:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		10/21/14 06:14	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		10/21/14 06:14	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		10/21/14 06:14	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		10/21/14 06:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		10/21/14 06:14	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		10/21/14 06:14	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		10/21/14 06:14	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		10/21/14 06:14		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60180642

Sample: TB-04-201410 **Lab ID: 60180642006** Collected: 10/16/14 08:00 Received: 10/17/14 11:05 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	5.0	1		10/21/14 04:04	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		10/21/14 04:04	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		10/21/14 04:04	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		10/21/14 04:04	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		10/21/14 04:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		10/21/14 04:04	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		10/21/14 04:04	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		10/21/14 04:04	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		10/21/14 04:04	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		10/21/14 04:04	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		10/21/14 04:04	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		10/21/14 04:04	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		10/21/14 04:04	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		10/21/14 04:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		10/21/14 04:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		10/21/14 04:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/21/14 04:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/21/14 04:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		10/21/14 04:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/21/14 04:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/21/14 04:04	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		10/21/14 04:04	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		10/21/14 04:04	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		10/21/14 04:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		10/21/14 04:04	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		10/21/14 04:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		10/21/14 04:04	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		10/21/14 04:04	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		10/21/14 04:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		10/21/14 04:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		10/21/14 04:04	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		10/21/14 04:04	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		10/21/14 04:04	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		10/21/14 04:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		10/21/14 04:04	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		10/21/14 04:04	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		10/21/14 04:04	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		10/21/14 04:04		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60180642

QC Batch: MSV/65211 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60180642001, 60180642002, 60180642003, 60180642004, 60180642005, 60180642006

METHOD BLANK: 1463852 Matrix: Water
Associated Lab Samples: 60180642001, 60180642002, 60180642003, 60180642004, 60180642005, 60180642006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/21/14 03:32	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/21/14 03:32	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/21/14 03:32	
1,1-Dichloroethane	ug/L	ND	2.4	10/21/14 03:32	
1,1-Dichloroethene	ug/L	ND	5.0	10/21/14 03:32	
1,2-Dichloroethane	ug/L	ND	5.0	10/21/14 03:32	
1,2-Dichloropropane	ug/L	ND	5.0	10/21/14 03:32	
2-Butanone (MEK)	ug/L	ND	10.0	10/21/14 03:32	
2-Hexanone	ug/L	ND	10.0	10/21/14 03:32	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/21/14 03:32	
Acetone	ug/L	ND	10.0	10/21/14 03:32	
Benzene	ug/L	ND	5.0	10/21/14 03:32	
Bromodichloromethane	ug/L	ND	5.0	10/21/14 03:32	
Bromoform	ug/L	ND	5.0	10/21/14 03:32	
Bromomethane	ug/L	ND	7.0	10/21/14 03:32	
Carbon disulfide	ug/L	ND	10.0	10/21/14 03:32	
Carbon tetrachloride	ug/L	ND	5.0	10/21/14 03:32	
Chlorobenzene	ug/L	ND	5.0	10/21/14 03:32	
Chloroethane	ug/L	ND	10.0	10/21/14 03:32	
Chloroform	ug/L	ND	5.0	10/21/14 03:32	
Chloromethane	ug/L	ND	10.0	10/21/14 03:32	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/21/14 03:32	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/21/14 03:32	
Dibromochloromethane	ug/L	ND	5.0	10/21/14 03:32	
Ethylbenzene	ug/L	ND	5.0	10/21/14 03:32	
Methylene chloride	ug/L	ND	5.0	10/21/14 03:32	
Styrene	ug/L	ND	5.0	10/21/14 03:32	
Tetrachloroethene	ug/L	ND	5.0	10/21/14 03:32	
Toluene	ug/L	ND	5.0	10/21/14 03:32	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/21/14 03:32	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/21/14 03:32	
Trichloroethene	ug/L	ND	5.0	10/21/14 03:32	
Vinyl chloride	ug/L	ND	2.0	10/21/14 03:32	
Xylene (Total)	ug/L	ND	5.0	10/21/14 03:32	
1,2-Dichloroethane-d4 (S)	%	102	80-120	10/21/14 03:32	
4-Bromofluorobenzene (S)	%	99	80-120	10/21/14 03:32	
Toluene-d8 (S)	%	100	80-120	10/21/14 03:32	

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60180642

LABORATORY CONTROL SAMPLE: 1463853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.9	104	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	97	73-124	
1,1,2-Trichloroethane	ug/L	20	20.7	103	80-120	
1,1-Dichloroethane	ug/L	20	20.5	102	77-120	
1,1-Dichloroethene	ug/L	20	20.2	101	78-126	
1,2-Dichloroethane	ug/L	20	21.1	106	77-123	
1,2-Dichloropropane	ug/L	20	20.0	100	80-121	
2-Butanone (MEK)	ug/L	100	84.9	85	52-145	
2-Hexanone	ug/L	100	93.9	94	57-139	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.5	96	71-131	
Acetone	ug/L	100	96.5	96	32-155	
Benzene	ug/L	20	20.0	100	80-120	
Bromodichloromethane	ug/L	20	20.4	102	80-120	
Bromoform	ug/L	20	19.1	95	73-124	
Bromomethane	ug/L	20	15.8	79	31-144	
Carbon disulfide	ug/L	20	18.8	94	65-125	
Carbon tetrachloride	ug/L	20	20.0	100	78-128	
Chlorobenzene	ug/L	20	21.0	105	80-120	
Chloroethane	ug/L	20	17.9	89	55-137	
Chloroform	ug/L	20	20.8	104	79-120	
Chloromethane	ug/L	20	17.4	87	22-138	
cis-1,2-Dichloroethene	ug/L	20	19.5	98	80-120	
cis-1,3-Dichloropropene	ug/L	20	18.7	93	80-120	
Dibromochloromethane	ug/L	20	20.1	101	80-120	
Ethylbenzene	ug/L	20	21.0	105	80-121	
Methylene chloride	ug/L	20	20.4	102	73-126	
Styrene	ug/L	20	22.6	113	80-120	
Tetrachloroethene	ug/L	20	20.2	101	80-121	
Toluene	ug/L	20	19.8	99	80-122	
trans-1,2-Dichloroethene	ug/L	20	20.5	102	79-121	
trans-1,3-Dichloropropene	ug/L	20	20.8	104	80-127	
Trichloroethene	ug/L	20	20.6	103	80-120	
Vinyl chloride	ug/L	20	16.9	85	59-120	
Xylene (Total)	ug/L	60	64.8	108	80-121	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			100	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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60180642

QC Batch: MSV/65266
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60180642001, 60180642003

METHOD BLANK: 1464986
Matrix: Water
Associated Lab Samples: 60180642001, 60180642003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/22/14 10:57	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/22/14 10:57	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/22/14 10:57	
1,1-Dichloroethane	ug/L	ND	2.4	10/22/14 10:57	
1,1-Dichloroethene	ug/L	ND	5.0	10/22/14 10:57	
1,2-Dichloroethane	ug/L	ND	5.0	10/22/14 10:57	
1,2-Dichloropropane	ug/L	ND	5.0	10/22/14 10:57	
2-Butanone (MEK)	ug/L	ND	10.0	10/22/14 10:57	
2-Hexanone	ug/L	ND	10.0	10/22/14 10:57	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/22/14 10:57	
Acetone	ug/L	ND	10.0	10/22/14 10:57	
Benzene	ug/L	ND	5.0	10/22/14 10:57	
Bromodichloromethane	ug/L	ND	5.0	10/22/14 10:57	
Bromoform	ug/L	ND	5.0	10/22/14 10:57	
Bromomethane	ug/L	ND	7.0	10/22/14 10:57	
Carbon disulfide	ug/L	ND	10.0	10/22/14 10:57	
Carbon tetrachloride	ug/L	ND	5.0	10/22/14 10:57	
Chlorobenzene	ug/L	ND	5.0	10/22/14 10:57	
Chloroethane	ug/L	ND	10.0	10/22/14 10:57	
Chloroform	ug/L	ND	5.0	10/22/14 10:57	
Chloromethane	ug/L	ND	10.0	10/22/14 10:57	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/22/14 10:57	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/22/14 10:57	
Dibromochloromethane	ug/L	ND	5.0	10/22/14 10:57	
Ethylbenzene	ug/L	ND	5.0	10/22/14 10:57	
Methylene chloride	ug/L	ND	5.0	10/22/14 10:57	
Styrene	ug/L	ND	5.0	10/22/14 10:57	
Tetrachloroethene	ug/L	ND	5.0	10/22/14 10:57	
Toluene	ug/L	ND	5.0	10/22/14 10:57	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/22/14 10:57	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/22/14 10:57	
Vinyl chloride	ug/L	ND	2.0	10/22/14 10:57	
Xylene (Total)	ug/L	ND	5.0	10/22/14 10:57	
1,2-Dichloroethane-d4 (S)	%	97	80-120	10/22/14 10:57	
4-Bromofluorobenzene (S)	%	96	80-120	10/22/14 10:57	
Toluene-d8 (S)	%	95	80-120	10/22/14 10:57	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
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QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60180642

LABORATORY CONTROL SAMPLE: 1464987

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.6	98	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	73-124	
1,1,2-Trichloroethane	ug/L	20	19.1	96	80-120	
1,1-Dichloroethane	ug/L	20	19.2	96	77-120	
1,1-Dichloroethene	ug/L	20	20.0	100	78-126	
1,2-Dichloroethane	ug/L	20	18.6	93	77-123	
1,2-Dichloropropane	ug/L	20	18.2	91	80-121	
2-Butanone (MEK)	ug/L	100	73.2	73	52-145	
2-Hexanone	ug/L	100	85.9	86	57-139	
4-Methyl-2-pentanone (MIBK)	ug/L	100	80.3	80	71-131	
Acetone	ug/L	100	80.2	80	32-155	
Benzene	ug/L	20	18.8	94	80-120	
Bromodichloromethane	ug/L	20	18.5	93	80-120	
Bromoform	ug/L	20	16.8	84	73-124	
Bromomethane	ug/L	20	20.1	100	31-144	
Carbon disulfide	ug/L	20	20.2	101	65-125	
Carbon tetrachloride	ug/L	20	18.9	95	78-128	
Chlorobenzene	ug/L	20	19.8	99	80-120	
Chloroethane	ug/L	20	19.2	96	55-137	
Chloroform	ug/L	20	19.2	96	79-120	
Chloromethane	ug/L	20	22.9	115	22-138	
cis-1,2-Dichloroethene	ug/L	20	18.5	93	80-120	
cis-1,3-Dichloropropene	ug/L	20	17.9	89	80-120	
Dibromochloromethane	ug/L	20	19.9	100	80-120	
Ethylbenzene	ug/L	20	20.2	101	80-121	
Methylene chloride	ug/L	20	18.0	90	73-126	
Styrene	ug/L	20	21.1	105	80-120	
Tetrachloroethene	ug/L	20	19.3	96	80-121	
Toluene	ug/L	20	18.7	93	80-122	
trans-1,2-Dichloroethene	ug/L	20	20.0	100	79-121	
trans-1,3-Dichloropropene	ug/L	20	20.9	105	80-127	
Vinyl chloride	ug/L	20	19.4	97	59-120	
Xylene (Total)	ug/L	60	62.6	104	80-121	
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			94	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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60180642

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/65211

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65266

[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.: 60180642

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60180642001	**MW-91-201410**	EPA 5030B/8260	MSV/65211		
60180642001	**MW-91-201410**	EPA 5030B/8260	MSV/65266		
60180642002	**MW-88-201410**	EPA 5030B/8260	MSV/65211		
60180642003	**MW-87-201410**	EPA 5030B/8260	MSV/65211		
60180642003	**MW-87-201410**	EPA 5030B/8260	MSV/65266		
60180642004	**MW-89-201410**	EPA 5030B/8260	MSV/65211		
60180642005	**MW-90-201410**	EPA 5030B/8260	MSV/65211		
60180642006	**TB-04-201410**	EPA 5030B/8260	MSV/65211		

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Sample Condition Upon Receipt

WO# : 60180642

60180642

Client Name: Enviran

Optional
Proj Due Date:
Proj Name:

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

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: T-239 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 5.2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: CW 10/17/14

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	CW 10/17/14 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, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): Cooler		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State: MSW

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: DMW Date: 10/17/14

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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:	

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:	MJ Walls
Pace Profile #:	7444

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 VOCs (Full List)	CO2 Calc (Alkalinity +pH)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-91-201410	WT	G	10/16/14	1330	—	—		3				X					X				60180642 001
2	MW-88-201410	WT	G	10/16/14	1137	—	—		3				X					X				002
3	MW-87-201410	WT	G	10/16/14	1317	—	—		3				X					X				003
4	MW-89-201410	WT	G	10/15/14	1734	—	—		3				X					X				004
5	MW-90-201410	WT	G	10/16/14	940	—	—		3				X					X				005
6	TB-4-201410	WT	G	—	—	—	—		2				X					X				006
7																						
8																						
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	Wendy Stonestreet	10/17/14	1105	for Mike pace	10/17	1105	5.2	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):	10/17/14				

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

October 31, 2014

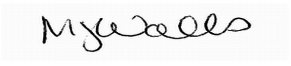
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60181472

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on October 30, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: Tamara Gleason, ENVIRON International Corporation

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60181472

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60181472

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60181472001	**MW-98-GW-2014 1029**	Water	10/29/14 11:10	10/30/14 01:21
60181472002	**TB-20141029**	Water	10/29/14 11:10	10/30/14 01:21

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SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60181472

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60181472001	**MW-98-GW-2014 1029**	EPA 5030B/8260	PRG	38
60181472002	**TB-20141029**	EPA 5030B/8260	PRG	38

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PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60181472

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: October 31, 2014

General Information:
2 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

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/65439

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.: 60181472

Sample: MW-98-GW-2014 1029 **Lab ID: 60181472001** Collected: 10/29/14 11:10 Received: 10/30/14 01:21 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	5.0	1		10/31/14 00:52	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		10/31/14 00:52	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		10/31/14 00:52	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		10/31/14 00:52	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		10/31/14 00:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		10/31/14 00:52	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		10/31/14 00:52	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		10/31/14 00:52	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		10/31/14 00:52	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		10/31/14 00:52	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		10/31/14 00:52	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		10/31/14 00:52	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		10/31/14 00:52	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		10/31/14 00:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		10/31/14 00:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		10/31/14 00:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/31/14 00:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/31/14 00:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		10/31/14 00:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/31/14 00:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/31/14 00:52	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		10/31/14 00:52	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		10/31/14 00:52	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		10/31/14 00:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		10/31/14 00:52	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		10/31/14 00:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		10/31/14 00:52	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		10/31/14 00:52	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		10/31/14 00:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		10/31/14 00:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		10/31/14 00:52	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		10/31/14 00:52	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		10/31/14 00:52	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		10/31/14 00:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		10/31/14 00:52	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		10/31/14 00:52	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		10/31/14 00:52	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		10/31/14 00:52		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60181472

Sample: TB-20141029 **Lab ID: 60181472002** Collected: 10/29/14 11:10 Received: 10/30/14 01:21 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	5.0	1		10/30/14 22:43	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		10/30/14 22:43	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		10/30/14 22:43	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		10/30/14 22:43	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		10/30/14 22:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		10/30/14 22:43	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		10/30/14 22:43	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		10/30/14 22:43	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		10/30/14 22:43	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		10/30/14 22:43	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		10/30/14 22:43	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		10/30/14 22:43	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		10/30/14 22:43	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		10/30/14 22:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		10/30/14 22:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		10/30/14 22:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/30/14 22:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		10/30/14 22:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		10/30/14 22:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/30/14 22:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		10/30/14 22:43	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		10/30/14 22:43	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		10/30/14 22:43	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		10/30/14 22:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		10/30/14 22:43	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		10/30/14 22:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		10/30/14 22:43	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		10/30/14 22:43	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		10/30/14 22:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		10/30/14 22:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		10/30/14 22:43	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		10/30/14 22:43	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		10/30/14 22:43	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		10/30/14 22:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	80-120		1		10/30/14 22:43	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		10/30/14 22:43	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		10/30/14 22:43	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		10/30/14 22:43		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60181472

QC Batch: MSV/65439
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60181472001, 60181472002

METHOD BLANK: 1470168
Matrix: Water
Associated Lab Samples: 60181472001, 60181472002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/30/14 22:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/30/14 22:11	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/30/14 22:11	
1,1-Dichloroethane	ug/L	ND	2.4	10/30/14 22:11	
1,1-Dichloroethene	ug/L	ND	5.0	10/30/14 22:11	
1,2-Dichloroethane	ug/L	ND	5.0	10/30/14 22:11	
1,2-Dichloropropane	ug/L	ND	5.0	10/30/14 22:11	
2-Butanone (MEK)	ug/L	ND	10.0	10/30/14 22:11	
2-Hexanone	ug/L	ND	10.0	10/30/14 22:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/30/14 22:11	
Acetone	ug/L	ND	10.0	10/30/14 22:11	
Benzene	ug/L	ND	5.0	10/30/14 22:11	
Bromodichloromethane	ug/L	ND	5.0	10/30/14 22:11	
Bromoform	ug/L	ND	5.0	10/30/14 22:11	
Bromomethane	ug/L	ND	7.0	10/30/14 22:11	
Carbon disulfide	ug/L	ND	10.0	10/30/14 22:11	
Carbon tetrachloride	ug/L	ND	5.0	10/30/14 22:11	
Chlorobenzene	ug/L	ND	5.0	10/30/14 22:11	
Chloroethane	ug/L	ND	10.0	10/30/14 22:11	
Chloroform	ug/L	ND	5.0	10/30/14 22:11	
Chloromethane	ug/L	ND	10.0	10/30/14 22:11	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/30/14 22:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/30/14 22:11	
Dibromochloromethane	ug/L	ND	5.0	10/30/14 22:11	
Ethylbenzene	ug/L	ND	5.0	10/30/14 22:11	
Methylene chloride	ug/L	ND	5.0	10/30/14 22:11	
Styrene	ug/L	ND	5.0	10/30/14 22:11	
Tetrachloroethene	ug/L	ND	5.0	10/30/14 22:11	
Toluene	ug/L	ND	5.0	10/30/14 22:11	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/30/14 22:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/30/14 22:11	
Trichloroethene	ug/L	ND	5.0	10/30/14 22:11	
Vinyl chloride	ug/L	ND	2.0	10/30/14 22:11	
Xylene (Total)	ug/L	ND	5.0	10/30/14 22:11	
1,2-Dichloroethane-d4 (S)	%	104	80-120	10/30/14 22:11	
4-Bromofluorobenzene (S)	%	99	80-120	10/30/14 22:11	
Toluene-d8 (S)	%	101	80-120	10/30/14 22:11	

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60181472

LABORATORY CONTROL SAMPLE: 1470169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.0	105	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	20.5	102	73-124	
1,1,2-Trichloroethane	ug/L	20	21.3	107	80-120	
1,1-Dichloroethane	ug/L	20	20.2	101	77-120	
1,1-Dichloroethene	ug/L	20	20.3	102	78-126	
1,2-Dichloroethane	ug/L	20	22.0	110	77-123	
1,2-Dichloropropane	ug/L	20	21.3	107	80-121	
2-Butanone (MEK)	ug/L	100	103	103	52-145	
2-Hexanone	ug/L	100	112	112	57-139	
4-Methyl-2-pentanone (MIBK)	ug/L	100	112	112	71-131	
Acetone	ug/L	100	103	103	32-155	
Benzene	ug/L	20	20.1	100	80-120	
Bromodichloromethane	ug/L	20	21.1	105	80-120	
Bromoform	ug/L	20	21.9	110	73-124	
Bromomethane	ug/L	20	13.2	66	31-144	
Carbon disulfide	ug/L	20	21.7	109	65-125	
Carbon tetrachloride	ug/L	20	21.6	108	78-128	
Chlorobenzene	ug/L	20	20.7	103	80-120	
Chloroethane	ug/L	20	20.0	100	55-137	
Chloroform	ug/L	20	20.7	104	79-120	
Chloromethane	ug/L	20	18.8	94	22-138	
cis-1,2-Dichloroethene	ug/L	20	20.4	102	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.2	101	80-120	
Dibromochloromethane	ug/L	20	20.7	104	80-120	
Ethylbenzene	ug/L	20	20.2	101	80-121	
Methylene chloride	ug/L	20	19.5	97	73-126	
Styrene	ug/L	20	21.8	109	80-120	
Tetrachloroethene	ug/L	20	20.5	102	80-121	
Toluene	ug/L	20	20.3	101	80-122	
trans-1,2-Dichloroethene	ug/L	20	20.8	104	79-121	
trans-1,3-Dichloropropene	ug/L	20	21.8	109	80-127	
Trichloroethene	ug/L	20	19.7	99	80-120	
Vinyl chloride	ug/L	20	17.3	86	59-120	
Xylene (Total)	ug/L	60	60.1	100	80-121	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60181472

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/65439

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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.: 60181472

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60181472001	**MW-98-GW-2014 1029**	EPA 5030B/8260	MSV/65439		
60181472002	**TB-20141029**	EPA 5030B/8260	MSV/65439		

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO#: 60181472

60181472

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other ☐ VIA

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: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 1.0

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JD 10/ 930

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. 1 day TAT
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: water				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, TOC, O&G, WI-DRO (water), Phenolics	☑Yes	☐No		Initial when completed MW / Lot # of added preservative
Trip Blank present:	☑Yes	☐No	☐N/A	
Pace Trip Blank lot # (if purchased): Unrecd				15.
Headspace in VOA vials (>6mm):	☐Yes	☑No	☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☐No	☒N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW Date: 10/30/14

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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: 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:	24 HR

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:	34BP2358

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

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 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-98-GW-20141029	WT	G			10/29/14	1110		3				X					X			3(DGYH)
2																					
3																					2(DGYH)TB
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

6w18/472

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Michael Eddings / Environ	10/29/14	1745		10/30/14	121	1.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Michael Eddings

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 10/29/14

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

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

APPENDIX D
Surface Water and Sediment Sampling Correspondence

September 18, 2014

Mr. Mostafa Mehran
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Re: Surface Water and Sediment Sampling near Whirlpool Facility
Whirlpool Corporation
Fort Smith, Arkansas
EPA No. ARD042755389
AFIN No. 66-00048
CAO LIS 13-202

Dear Mr. Mehran:

ENVIRON International Corporation (ENVIRON), on behalf of Whirlpool Corporation, is submitting this letter report summarizing the investigation of surface water and sediment near the Whirlpool facility in response to the Arkansas Department of Environmental Quality's (ADEQ's) request for collection of surface water and sediment samples from Mill Creek in the ADEQ correspondence dated August 6, 2014 (ADEQ comment on the Northeast Corner Supplemental Work Plan). In Whirlpool's response letter dated August 11, 2014, and ADEQ's response letter dated August 15, 2014, it was determined that as part of the current sequential investigative approach for the site, surface water and sediment samples would be collected from the permitted outfalls at the Whirlpool property to assess if there was any trichloroethene (TCE) impact before stepping out and sampling Mill Creek.

As described in more detail below, no TCE or other chlorinated solvents were found in any of the two surface water runoff samples or the multiple sediment samples taken from two discharge locations on the Whirlpool property and the drainage ditch south of the Boys and Girls Club parking lot.

INVESTIGATION BACKGROUND

The objective of the investigation was to determine potential TCE impact to surface water runoff from the Whirlpool property and water that discharges into nearby Mill Creek. As outlined in the August 11, 2014, letter, Outfall 001 discharges from the Whirlpool property at the northeast corner of the site to the ditch along the south side of the parking lot for the Boys and Girls Club. This ditch flows east and ultimately discharges to Mill Creek approximately 1,200 feet east of the northeast corner of Jenny Lind Road and Ingersoll Avenue. Outfall 002 discharges from the Whirlpool property at the west central portion of the Whirlpool property (see Figure 1 for Outfall locations).

Immediately following a thunderstorm rain event on August 18, 2014, two surface water samples were collected near Outfall 001 and Outfall 002 (Figure 1) (lightning precluded sampling during the storm). The rain event on August 18, 2014, totaled 0.27 inches at the Ft. Smith Regional Airport located approximately 1.5 miles northeast of the Whirlpool site. Rain events for the prior ten days included a trace amount of rain on August 16, 2014, 0.19 inches of

rain on August 10, 2014, 0.3 inches of rain on August 9, 2014, and 0.01 inches of rain on August 8, 2014.

The surface water sample at Outfall 001 in the northeast corner of the facility (NE-MANHOLE-SW) was collected from the last onsite stormwater manhole before stormwater discharges into the culvert underlying Jenny Lind Road (this culvert discharges to the ditch along the south side of the Boys and Girls Club parking lot). This collection point was chosen in order to collect a sample before onsite stormwater mixed with stormwater drainage along Ingersoll Avenue and Jenny Lind Road. The Outfall 002 stormwater sample (WEST-SW) was collected on the south side of the drainage culvert along the west central portion of the site due to safe access. The north side of the culvert was too eroded to safely collect a water sample.

On August 20, 2014, three offsite sediment samples were collected near Outfall 001 and five onsite sediment samples near Outfall 002 at locations depicted on Figure 1. Sediment samples were collected from a depth of 0.5 to 1 foot below ground surface (bgs). Sediment samples were collected two days after the rain event on August 18, 2014, to allow standing water to dissipate from the ditch along the south side of the Boys and Girls Club parking lot and the drainage features along the west central portion of the Whirlpool property.

RESULTS

Surface water and sediment sample analytical results are provided in Table 1 and Table 2, and Figure 1 depicts the specific sampling locations. The laboratory reports are provided as Attachment A.

No TCE or other chlorinated solvents were detected in the surface water samples collected from the two Whirlpool stormwater outfalls during the rain storm on Monday, August 18, 2014. No TCE or other chlorinated solvents were detected in three sediment samples collected from the drainage ditch located northeast of the Whirlpool property along the south side of the Boys and Girls Club parking lot or in the five sediment samples collected from the drainage ditches located at the west central portion of the Whirlpool property on Wednesday, August 20, 2014.

SUMMARY

In summary, no TCE or other chlorinated solvent impact was discovered in surface water or sediment associated with the stormwater outfalls from the former Whirlpool facility; therefore, no further investigation of surface water or sediment is necessary.

-oo0oo-

We look forward to discussing this report in greater detail and to addressing any questions you may have.

Sincerely,

ENVIRON International Corporation

Michael F. Ellis, PE
Principal

cc: Robert Karwowski – Whirlpool

LIST OF ATTACHMENTS

Table 1: Summary of Groundwater Sample Analytical Results
Table 2: Summary of Sediment Sample Analytical Results
Figure 1: Surface Water and Sediment Sample Locations
Appendix A: Laboratory Reports

TABLES

TABLE 1
SUMMARY OF SURFACE WATER RESULTS
Whirlpool Corporation; Fort Smith, AR

ENVIRON Sample ID	Remedial Action Levels per ADEQ RADD Issued 2014	NE-MANHOLE-SW-20140818	WEST-SW-20140818
Lab Sample ID		60176049002	60176049003
Sample Method			
Sample Date		8/18/2014	8/18/2014
Volatile Organic Compounds			
Bromodichloromethane	80	U (5.0)	U (5.0)
Carbon Tetrachloride	5	U (5.0)	U (5.0)
Chlorobenzene	100	U (5.0)	U (5.0)
Chloroethane	21,000	U (10.0)	U (10.0)
Chloroform	80	U (5.0)	U (5.0)
Chloromethane	190	U (10.0)	U (10.0)
Dibromochloromethane	80	U (2.4)	U (2.4)
1,1-Dichloroethane	2.4	U (5.0)	U (5.0)
1,2-Dichloroethane	5	U (5.0)	U (5.0)
1,1-Dichloroethene	7	U (5.0)	U (5.0)
cis-1,2-Dichloroethene	70	U (5.0)	U (5.0)
trans-1,2-Dichloroethene	100	U (5.0)	U (5.0)
1,2-Dichloropropane	5	U (5.0)	U (5.0)
cis-1,3-Dichloropropene	0.41	U (1.0)	U (1.0)
trans-1,3-Dichloropropene	0.41	U (5.0)	U (5.0)
Methylene Chloride	5	U (5.0)	U (5.0)
1,1,2,2-Tetrachloroethane	0.066	U (5.0)	U (5.0)
Tetrachloroethene	5	U (5.0)	U (5.0)
1,1,1-Trichloroethane	200	U (5.0)	U (5.0)
1,1,2-Trichloroethane	5	U (5.0)	U (5.0)
Trichloroethene	5	U (5.0)	U (5.0)
Vinyl Chloride	2	U (2.0)	U (2.0)

Notes:
All concentrations are presented in ug/L

Abbreviations:
U -- Not Detected.
( ) -- Detection Limit.
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environmental Quality
ug/L = microgram per liter

TABLE 2
SUMMARY OF SEDIMENT RESULTS
Whirlpool Corporation; Fort Smith, AR

Location		SED-01	SED-02	SED-03	SED-04	SED-05	SED-06	SED-07	SED-08
ENVIRON Sample ID	Remedial Action Levels per ADEQ RADD Issued 2014	SED-01-SL-20140820	SED-02-SL-20140820	SED-03-SL-20140820	SED-04-SL-20140820	SED-05-SL-2014820	SED-06-SL-20140820	SED-07-SL-20140820	SED-08-SL-20140820
Lab Sample ID		60176262001	60176262002	60176262003	60176262004	60176262005	60176262006	60176262007	60176262008
Sample Method									
Sample Date		8/20/2014	8/20/2014	8/20/2014	8/20/2014	8/20/2014	8/20/2014	8/20/2014	8/20/2014
Volatile Organic Compounds									
Bromodichloromethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Carbon Tetrachloride	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Chlorobenzene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Chloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Chloroform	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Chloromethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Dibromochloromethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
1,1-Dichloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
1,2-Dichloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
1,1-Dichloroethene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
cis-1,2-Dichloroethene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
trans-1,2-Dichloroethene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
1,2-Dichloropropane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
cis-1,3-Dichloropropene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
trans-1,3-Dichloropropene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Methylene Chloride	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
1,1,2,2-Tetrachloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Tetrachloroethene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
1,1,1-Trichloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
1,1,2-Trichloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Trichloroethene	0.129	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Vinyl Chloride	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)

Notes:
All concentrations are presented in mg/kg

Abbreviations:
U -- Not Detected.
( ) -- Detection Limit.
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environmental Quality
mg/kg = miligram per kilogram
NE = Not Established

FIGURE

FILE: C:\Projects\WHIRLPOOL\GIS\Figure 3 - NE Corner SW and SED Locations - 20140825.mxd

Jacobs Ave
Jenny Lind Rd
Boys Club Ln
Ingersoll Ave
Ingersoll Ave
Jenny Lind Rd

SED-03
SED-01
SED-02
NE-Manhole-SW
SED-04
SED-05
WEST-SW
SED-06
SED-08
SED-07

0 200 400 600
Feet
1 inch = 292 feet

Notes:
- Surface and sediment samples collected August 2014.
- Jenny Lind Road widening areas based on City of Fort Smith maps presented to the City Directors October 2012 and January-February 2013.
- Areas depicted are approximate and for planning purposes only
- Parcel boundaries and database updated May 2014
- 2006 aerial photograph (Source: USGS)

Soil Boring and Sample Locations

Boring/Sample Type

SED - Sediment Sample
SW - Surface Water
Approximate_Boundary

ENVIRON

SURFACE WATER AND SEDIMENT SAMPLE LOCATIONS

Whirlpool Facility - Fort Smith, Arkansas

Figure 1

DRAFTED BY: KTS | DATE: 09/09/2014 | PROJECT: 3434446A

APPENDIX A:
Laboratory Reports

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 21, 2014

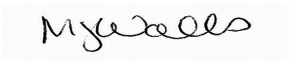
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: Ft. Smith AR
Pace Project No.: 60176049

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on August 19, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: EDD, Environ_AR
Tamara Gleason, ENVIRON International Corporation

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: Ft. Smith AR
Pace Project No.: 60176049

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: Ft. Smith AR
Pace Project No.: 60176049

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60176049001	**DP-49-GW-20140817**	Water	08/17/14 08:54	08/19/14 02:00
60176049002	**NE-MANHOLE-SW-20140818**	Water	08/18/14 17:15	08/19/14 02:00
60176049003	**WEST-SW-20140818**	Water	08/18/14 17:15	08/19/14 02:00
60176049004	**TB20-20140818**	Water	08/17/14 08:54	08/19/14 02:00

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: Ft. Smith AR
Pace Project No.: 60176049

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60176049001	**DP-49-GW-20140817**	EPA 5030B/8260	PRG	38
60176049002	**NE-MANHOLE-SW-20140818**	EPA 5030B/8260	PRG	26
60176049003	**WEST-SW-20140818**	EPA 5030B/8260	PRG	26
60176049004	**TB20-20140818**	EPA 5030B/8260	PRG	38

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: Ft. Smith AR
Pace Project No.: 60176049

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: August 21, 2014

General Information:
4 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

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/63778

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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith AR
Pace Project No.: 60176049

Sample: DP-49-GW-20140817 **Lab ID: 60176049001** Collected: 08/17/14 08:54 Received: 08/19/14 02:00 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	5.0	1		08/20/14 22:36	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/20/14 22:36	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		08/20/14 22:36	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		08/20/14 22:36	74-83-9	
2-Butanone (MEK)	**16.4**	ug/L	10.0	5.0	1		08/20/14 22:36	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		08/20/14 22:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/20/14 22:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/20/14 22:36	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/20/14 22:36	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/20/14 22:36	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/20/14 22:36	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/20/14 22:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/20/14 22:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/20/14 22:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/20/14 22:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		08/20/14 22:36	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/20/14 22:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		08/20/14 22:36	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/20/14 22:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:36	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:36	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/20/14 22:36	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		08/20/14 22:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		08/20/14 22:36	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		08/20/14 22:36	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		08/20/14 22:36	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/20/14 22:36		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith AR
Pace Project No.: 60176049

Sample: NE-MANHOLE-SW-20140818 **Lab ID: 60176049002** Collected: 08/18/14 17:15 Received: 08/19/14 02:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/20/14 22:50	75-27-4	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/20/14 22:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/20/14 22:50	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/20/14 22:50	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/20/14 22:50	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/20/14 22:50	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/20/14 22:50	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/20/14 22:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/20/14 22:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/20/14 22:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/20/14 22:50	10061-02-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/20/14 22:50	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/20/14 22:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:50	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:50	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/20/14 22:50	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		08/20/14 22:50	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		08/20/14 22:50	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		08/20/14 22:50	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/20/14 22:50		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith AR
Pace Project No.: 60176049

Sample: WEST-SW-20140818 **Lab ID: 60176049003** Collected: 08/18/14 17:15 Received: 08/19/14 02:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/20/14 23:04	75-27-4	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/20/14 23:04	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/20/14 23:04	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/20/14 23:04	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/20/14 23:04	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/20/14 23:04	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/20/14 23:04	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/20/14 23:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 23:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 23:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 23:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 23:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/20/14 23:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/20/14 23:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/20/14 23:04	10061-02-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/20/14 23:04	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/20/14 23:04	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/20/14 23:04	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 23:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 23:04	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 23:04	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/20/14 23:04	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		08/20/14 23:04	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		08/20/14 23:04	17060-07-0	
Toluene-d8 (S)	92	%	80-120		1		08/20/14 23:04	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/20/14 23:04		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith AR
Pace Project No.: 60176049

Sample: TB20-20140818 **Lab ID: 60176049004** Collected: 08/17/14 08:54 Received: 08/19/14 02:00 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	5.0	1		08/20/14 22:07	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/20/14 22:07	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		08/20/14 22:07	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		08/20/14 22:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		08/20/14 22:07	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		08/20/14 22:07	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/20/14 22:07	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/20/14 22:07	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/20/14 22:07	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/20/14 22:07	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/20/14 22:07	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/20/14 22:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/20/14 22:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/20/14 22:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/20/14 22:07	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		08/20/14 22:07	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/20/14 22:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		08/20/14 22:07	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/20/14 22:07	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/20/14 22:07	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		08/20/14 22:07	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/20/14 22:07	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		08/20/14 22:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		08/20/14 22:07	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		08/20/14 22:07	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		08/20/14 22:07	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/20/14 22:07		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith AR
Pace Project No.: 60176049

QC Batch: MSV/63778 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60176049001, 60176049002, 60176049003, 60176049004

METHOD BLANK: 1428967 Matrix: Water
Associated Lab Samples: 60176049001, 60176049002, 60176049003, 60176049004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	08/20/14 21:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/20/14 21:39	
1,1,2-Trichloroethane	ug/L	ND	5.0	08/20/14 21:39	
1,1-Dichloroethane	ug/L	ND	2.4	08/20/14 21:39	
1,1-Dichloroethene	ug/L	ND	5.0	08/20/14 21:39	
1,2-Dichloroethane	ug/L	ND	5.0	08/20/14 21:39	
1,2-Dichloropropane	ug/L	ND	5.0	08/20/14 21:39	
2-Butanone (MEK)	ug/L	ND	10.0	08/20/14 21:39	
2-Hexanone	ug/L	ND	10.0	08/20/14 21:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	08/20/14 21:39	
Acetone	ug/L	ND	10.0	08/20/14 21:39	
Benzene	ug/L	ND	5.0	08/20/14 21:39	
Bromodichloromethane	ug/L	ND	5.0	08/20/14 21:39	
Bromoform	ug/L	ND	5.0	08/20/14 21:39	
Bromomethane	ug/L	ND	7.0	08/20/14 21:39	
Carbon disulfide	ug/L	ND	10.0	08/20/14 21:39	
Carbon tetrachloride	ug/L	ND	5.0	08/20/14 21:39	
Chlorobenzene	ug/L	ND	5.0	08/20/14 21:39	
Chloroethane	ug/L	ND	10.0	08/20/14 21:39	
Chloroform	ug/L	ND	5.0	08/20/14 21:39	
Chloromethane	ug/L	ND	10.0	08/20/14 21:39	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/20/14 21:39	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/20/14 21:39	
Dibromochloromethane	ug/L	ND	5.0	08/20/14 21:39	
Ethylbenzene	ug/L	ND	5.0	08/20/14 21:39	
Methylene chloride	ug/L	ND	5.0	08/20/14 21:39	
Styrene	ug/L	ND	5.0	08/20/14 21:39	
Tetrachloroethene	ug/L	ND	5.0	08/20/14 21:39	
Toluene	ug/L	ND	5.0	08/20/14 21:39	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/20/14 21:39	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/20/14 21:39	
Trichloroethene	ug/L	ND	5.0	08/20/14 21:39	
Vinyl chloride	ug/L	ND	2.0	08/20/14 21:39	
Xylene (Total)	ug/L	ND	5.0	08/20/14 21:39	
1,2-Dichloroethane-d4 (S)	%	96	80-120	08/20/14 21:39	
4-Bromofluorobenzene (S)	%	94	80-120	08/20/14 21:39	
Toluene-d8 (S)	%	93	80-120	08/20/14 21:39	

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith AR
Pace Project No.: 60176049

LABORATORY CONTROL SAMPLE: 1428968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.6	98	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	17.9	89	73-124	
1,1,2-Trichloroethane	ug/L	20	20.3	102	80-120	
1,1-Dichloroethane	ug/L	20	19.0	95	77-120	
1,1-Dichloroethene	ug/L	20	17.4	87	78-126	
1,2-Dichloroethane	ug/L	20	20.2	101	77-123	
1,2-Dichloropropane	ug/L	20	18.7	94	80-121	
2-Butanone (MEK)	ug/L	100	94.8	95	52-145	
2-Hexanone	ug/L	100	91.1	91	57-139	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.8	96	71-131	
Acetone	ug/L	100	98.2	98	32-155	
Benzene	ug/L	20	18.4	92	80-120	
Bromodichloromethane	ug/L	20	21.6	108	80-120	
Bromoform	ug/L	20	19.8	99	73-124	
Bromomethane	ug/L	20	16.1	80	31-144	
Carbon disulfide	ug/L	20	19.0	95	65-125	
Carbon tetrachloride	ug/L	20	19.4	97	78-128	
Chlorobenzene	ug/L	20	20.7	104	80-120	
Chloroethane	ug/L	20	18.1	91	55-137	
Chloroform	ug/L	20	19.5	97	79-120	
Chloromethane	ug/L	20	14.2	71	22-138	
cis-1,2-Dichloroethene	ug/L	20	19.1	95	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.1	96	80-120	
Dibromochloromethane	ug/L	20	21.0	105	80-120	
Ethylbenzene	ug/L	20	20.7	103	80-121	
Methylene chloride	ug/L	20	19.4	97	73-126	
Styrene	ug/L	20	21.1	105	80-120	
Tetrachloroethene	ug/L	20	20.4	102	80-121	
Toluene	ug/L	20	19.4	97	80-122	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	79-121	
trans-1,3-Dichloropropene	ug/L	20	19.7	98	80-127	
Trichloroethene	ug/L	20	19.0	95	80-120	
Vinyl chloride	ug/L	20	15.7	78	59-120	
Xylene (Total)	ug/L	60	58.9	98	80-121	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			94	80-120	
Toluene-d8 (S)	%			100	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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: Ft. Smith AR
Pace Project No.: 60176049

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/63778

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ft. Smith AR
Pace Project No.: 60176049

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60176049001	**DP-49-GW-20140817**	EPA 5030B/8260	MSV/63778		
60176049002	**NE-MANHOLE-SW-20140818**	EPA 5030B/8260	MSV/63778		
60176049003	**WEST-SW-20140818**	EPA 5030B/8260	MSV/63778		
60176049004	**TB20-20140818**	EPA 5030B/8260	MSV/63778		

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Sample Condition Upon Receipt

WO# : 60176049

60176049

Client Name: Enviro

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☑ via

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 ☑ zplc

Thermometer Used: T-239 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2-6

Date and initials of person examining contents: AH 8/19

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, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 061114-2DFD		15.
Headspace in VOA vials (>6mm):	☑Yes ☐No ☐N/A	1 of 2 TB headspace
		16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW Date: 8/19/14

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Chain-of-Custody and 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:	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:	MJ Walls
Requested Due Date/TAT:		Project Number:	3434446A	Pace Profile #:	7444 water, 7709 soil

REGULATORY AGENCY

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

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	8260 Chlorinated	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-49-GW-20140817	WT	G			8/17/14	0854		2				X					X				2(DGHL)
2	NE-Manhole-SW-20140818	WT	G			8/18/14	1715		3				X						X			3(DGHL)
3	WECT-SW-20140818	WT	G			8/18/14	1733		3				X						X			↓
4	Trip Blank 12-082014	WT							2				X					X				2(DGHL)
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
CALL WENDY STONESTREET FOR SPECIFIC LIST FOR CHLORINATED	[signature] / ENVIRON	8/18/14		[signature] / PASI	8/19	0200	2.6	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:	Michael Eddings					
SIGNATURE of SAMPLER:	[signature]	DATE Signed (MM/DD/YY): 8/18/14				

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 22, 2014

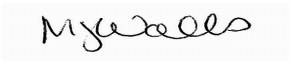
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: Ft. Smith Soil
Pace Project No.: 60176262

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on August 21, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: EDD, Environ_AR
Tamara Gleason, ENVIRON International Corporation

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
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

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SAMPLE SUMMARY

Project: Ft. Smith Soil
Pace Project No.: 60176262

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60176262001	**SED-01-SL-20140820**	Solid	08/20/14 12:45	08/21/14 01:30
60176262002	**SED-02-SL-20140820**	Solid	08/20/14 13:00	08/21/14 01:30
60176262003	**SED-03-SL-20140820**	Solid	08/20/14 13:15	08/21/14 01:30
60176262004	**SED-04-SL-20140820**	Solid	08/20/14 14:10	08/21/14 01:30
60176262005	**SED-05-SL-20140820**	Solid	08/20/14 14:50	08/21/14 01:30
60176262006	**SED-06-SL-20140820**	Solid	08/20/14 15:00	08/21/14 01:30
60176262007	**SED-07-SL-20140820**	Solid	08/20/14 15:10	08/21/14 01:30
60176262008	**SED-08-SL-20140820**	Solid	08/20/14 15:20	08/21/14 01:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Ft. Smith Soil
Pace Project No.: 60176262

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60176262001	**SED-01-SL-20140820**	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262002	**SED-02-SL-20140820**	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262003	**SED-03-SL-20140820**	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262004	**SED-04-SL-20140820**	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262005	**SED-05-SL-20140820**	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262006	**SED-06-SL-20140820**	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262007	**SED-07-SL-20140820**	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262008	**SED-08-SL-20140820**	EPA 8260	JKL	25
		ASTM D2974	DWC	1

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PROJECT NARRATIVE

Project: Ft. Smith Soil
Pace Project No.: 60176262

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: August 22, 2014

General Information:
8 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-01-SL-20140820 **Lab ID: 60176262001** Collected: 08/20/14 12:45 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Bromodichloromethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	75-27-4	
Carbon tetrachloride	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	108-90-7	
Chloroethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	75-00-3	
Chloroform	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	67-66-3	
Chloromethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	74-87-3	
Dibromochloromethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	10061-02-6	
Methylene chloride	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	79-34-5	
Tetrachloroethene	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	79-00-5	
Trichloroethene	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	79-01-6	
Vinyl chloride	ND	ug/kg	5.5	2.7	1		08/21/14 17:02	75-01-4	
Surrogates									
Toluene-d8 (S)	99	%	80-120		1		08/21/14 17:02	2037-26-5	
4-Bromofluorobenzene (S)	99	%	76-123		1		08/21/14 17:02	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-129		1		08/21/14 17:02	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**17.7**	%	0.50	0.50	1		08/21/14 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-02-SL-20140820 **Lab ID: 60176262002** Collected: 08/20/14 13:00 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Bromodichloromethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	75-27-4	
Carbon tetrachloride	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	56-23-5	
Chlorobenzene	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	108-90-7	
Chloroethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	75-00-3	
Chloroform	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	67-66-3	
Chloromethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	74-87-3	
Dibromochloromethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	124-48-1	
1,1-Dichloroethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	10061-02-6	
Methylene chloride	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	79-34-5	
Tetrachloroethene	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	79-00-5	
Trichloroethene	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	79-01-6	
Vinyl chloride	ND	ug/kg	6.5	3.3	1		08/21/14 17:17	75-01-4	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		08/21/14 17:17	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		08/21/14 17:17	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	75-129		1		08/21/14 17:17	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**21.1**	%	0.50	0.50	1		08/21/14 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-03-SL-20140820 **Lab ID: 60176262003** Collected: 08/20/14 13:15 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Bromodichloromethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	75-27-4	
Carbon tetrachloride	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	108-90-7	
Chloroethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	75-00-3	
Chloroform	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	67-66-3	
Chloromethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	74-87-3	
Dibromochloromethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	10061-02-6	
Methylene chloride	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	79-00-5	
Trichloroethene	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	79-01-6	
Vinyl chloride	ND	ug/kg	4.5	2.3	1		08/21/14 17:32	75-01-4	
Surrogates									
Toluene-d8 (S)	99	%	80-120		1		08/21/14 17:32	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/21/14 17:32	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-129		1		08/21/14 17:32	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**16.1**	%	0.50	0.50	1		08/21/14 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-04-SL-20140820 **Lab ID: 60176262004** Collected: 08/20/14 14:10 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Bromodichloromethane	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	75-27-4	
Carbon tetrachloride	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	108-90-7	
Chloroethane	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	75-00-3	
Chloroform	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	67-66-3	
Chloromethane	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	74-87-3	
Dibromochloromethane	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	10061-02-6	
Methylene chloride	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	79-00-5	
Trichloroethene	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	79-01-6	
Vinyl chloride	ND	ug/kg	4.9	2.5	1		08/21/14 17:48	75-01-4	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/21/14 17:48	2037-26-5	
4-Bromofluorobenzene (S)	105	%	76-123		1		08/21/14 17:48	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	75-129		1		08/21/14 17:48	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**22.8**	%	0.50	0.50	1		08/21/14 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-05-SL-20140820 **Lab ID: 60176262005** Collected: 08/20/14 14:50 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Bromodichloromethane	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	75-27-4	
Carbon tetrachloride	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	56-23-5	
Chlorobenzene	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	108-90-7	
Chloroethane	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	75-00-3	
Chloroform	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	67-66-3	
Chloromethane	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	74-87-3	
Dibromochloromethane	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	124-48-1	
1,1-Dichloroethane	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	10061-02-6	
Methylene chloride	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	79-34-5	
Tetrachloroethene	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	79-00-5	
Trichloroethene	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	79-01-6	
Vinyl chloride	ND	ug/kg	6.4	3.2	1		08/21/14 18:03	75-01-4	
Surrogates									
Toluene-d8 (S)	99	%	80-120		1		08/21/14 18:03	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/21/14 18:03	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	75-129		1		08/21/14 18:03	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**29.7**	%	0.50	0.50	1		08/21/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-06-SL-20140820 **Lab ID: 60176262006** Collected: 08/20/14 15:00 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Bromodichloromethane	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	75-27-4	
Carbon tetrachloride	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	108-90-7	
Chloroethane	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	75-00-3	
Chloroform	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	67-66-3	
Chloromethane	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	74-87-3	
Dibromochloromethane	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	10061-02-6	
Methylene chloride	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	79-34-5	
Tetrachloroethene	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	79-00-5	
Trichloroethene	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	79-01-6	
Vinyl chloride	ND	ug/kg	5.4	2.7	1		08/21/14 18:18	75-01-4	
Surrogates									
Toluene-d8 (S)	99	%	80-120		1		08/21/14 18:18	2037-26-5	
4-Bromofluorobenzene (S)	103	%	76-123		1		08/21/14 18:18	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	75-129		1		08/21/14 18:18	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**17.1**	%	0.50	0.50	1		08/21/14 00:00		

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-07-SL-20140820 **Lab ID: 60176262007** Collected: 08/20/14 15:10 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Bromodichloromethane	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	75-27-4	
Carbon tetrachloride	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	108-90-7	
Chloroethane	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	75-00-3	
Chloroform	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	67-66-3	
Chloromethane	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	74-87-3	
Dibromochloromethane	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	10061-02-6	
Methylene chloride	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	79-00-5	
Trichloroethene	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	79-01-6	
Vinyl chloride	ND	ug/kg	4.8	2.4	1		08/21/14 18:34	75-01-4	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		08/21/14 18:34	2037-26-5	
4-Bromofluorobenzene (S)	104	%	76-123		1		08/21/14 18:34	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	75-129		1		08/21/14 18:34	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**18.9**	%	0.50	0.50	1		08/21/14 00:00		

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-08-SL-20140820 **Lab ID: 60176262008** Collected: 08/20/14 15:20 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Bromodichloromethane	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	75-27-4	
Carbon tetrachloride	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	75-00-3	
Chloroform	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	67-66-3	
Chloromethane	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	74-87-3	
Dibromochloromethane	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	10061-02-6	
Methylene chloride	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	79-00-5	
Trichloroethene	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	79-01-6	
Vinyl chloride	ND	ug/kg	5.0	2.5	1		08/21/14 18:49	75-01-4	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/21/14 18:49	2037-26-5	
4-Bromofluorobenzene (S)	103	%	76-123		1		08/21/14 18:49	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	75-129		1		08/21/14 18:49	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**20.7**	%	0.50	0.50	1		08/21/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Soil
Pace Project No.: 60176262

QC Batch: MSV/63820 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60176262001, 60176262002, 60176262003, 60176262004, 60176262005, 60176262006, 60176262007, 60176262008

METHOD BLANK: 1429862 Matrix: Solid
Associated Lab Samples: 60176262001, 60176262002, 60176262003, 60176262004, 60176262005, 60176262006, 60176262007, 60176262008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/21/14 16:16	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/21/14 16:16	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/21/14 16:16	
1,1-Dichloroethane	ug/kg	ND	5.0	08/21/14 16:16	
1,1-Dichloroethene	ug/kg	ND	5.0	08/21/14 16:16	
1,2-Dichloroethane	ug/kg	ND	5.0	08/21/14 16:16	
1,2-Dichloropropane	ug/kg	ND	5.0	08/21/14 16:16	
Bromodichloromethane	ug/kg	ND	5.0	08/21/14 16:16	
Carbon tetrachloride	ug/kg	ND	5.0	08/21/14 16:16	
Chlorobenzene	ug/kg	ND	5.0	08/21/14 16:16	
Chloroethane	ug/kg	ND	5.0	08/21/14 16:16	
Chloroform	ug/kg	ND	5.0	08/21/14 16:16	
Chloromethane	ug/kg	ND	5.0	08/21/14 16:16	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/21/14 16:16	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/21/14 16:16	
Dibromochloromethane	ug/kg	ND	5.0	08/21/14 16:16	
Methylene chloride	ug/kg	32.8	5.0	08/21/14 16:16	
Tetrachloroethene	ug/kg	ND	5.0	08/21/14 16:16	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/21/14 16:16	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/21/14 16:16	
Trichloroethene	ug/kg	ND	5.0	08/21/14 16:16	
Vinyl chloride	ug/kg	ND	5.0	08/21/14 16:16	
1,2-Dichloroethane-d4 (S)	%	92	75-129	08/21/14 16:16	
4-Bromofluorobenzene (S)	%	99	76-123	08/21/14 16:16	
Toluene-d8 (S)	%	100	80-120	08/21/14 16:16	

LABORATORY CONTROL SAMPLE: 1429863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	93.9	94	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	91.7	92	73-120	
1,1,2-Trichloroethane	ug/kg	100	91.2	91	76-120	
1,1-Dichloroethane	ug/kg	100	95.0	95	71-120	
1,1-Dichloroethene	ug/kg	100	101	101	76-130	
1,2-Dichloroethane	ug/kg	100	98.7	99	78-120	
1,2-Dichloropropane	ug/kg	100	95.7	96	80-120	
Bromodichloromethane	ug/kg	100	101	101	80-120	
Carbon tetrachloride	ug/kg	100	94.8	95	75-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ft. Smith Soil
Pace Project No.: 60176262

LABORATORY CONTROL SAMPLE: 1429863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/kg	100	97.6	98	80-120	
Chloroethane	ug/kg	100	104	104	65-127	
Chloroform	ug/kg	100	93.5	94	74-120	
Chloromethane	ug/kg	100	123	123	39-138	
cis-1,2-Dichloroethene	ug/kg	100	101	101	76-124	
cis-1,3-Dichloropropene	ug/kg	100	95.4	95	82-120	
Dibromochloromethane	ug/kg	100	103	103	80-124	
Methylene chloride	ug/kg	100	106	106	70-123	
Tetrachloroethene	ug/kg	100	94.5	95	78-128	
trans-1,2-Dichloroethene	ug/kg	100	89.5	90	76-124	
trans-1,3-Dichloropropene	ug/kg	100	98.5	98	80-124	
Trichloroethene	ug/kg	100	92.0	92	80-120	
Vinyl chloride	ug/kg	100	106	106	57-132	
1,2-Dichloroethane-d4 (S)	%			101	75-129	
4-Bromofluorobenzene (S)	%			102	76-123	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1429864 1429865

Parameter	Units	60176101001 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/kg	ND	112	112	97.9	87.5	88	78	21-144	11	43	
1,1,2,2-Tetrachloroethane	ug/kg	ND	112	112	85.6	73.6	77	66	10-151	15	46	
1,1,2-Trichloroethane	ug/kg	ND	112	112	97.6	85.9	87	77	10-140	13	46	
1,1-Dichloroethane	ug/kg	ND	112	112	98.9	89.1	89	80	19-137	10	43	
1,1-Dichloroethene	ug/kg	ND	112	112	95.2	82.8	85	74	27-143	14	41	
1,2-Dichloroethane	ug/kg	ND	112	112	104	93.3	93	84	21-147	11	38	
1,2-Dichloropropane	ug/kg	ND	112	112	102	90.2	91	81	15-145	12	43	
Bromodichloromethane	ug/kg	ND	112	112	106	95.1	95	85	10-143	11	42	
Carbon tetrachloride	ug/kg	ND	112	112	100	88.8	90	80	15-153	12	45	
Chlorobenzene	ug/kg	ND	112	112	95.6	85.5	86	77	10-145	11	46	
Chloroethane	ug/kg	ND	112	112	119	106	107	95	17-134	11	42	
Chloroform	ug/kg	ND	112	112	100	87.1	90	78	17-138	14	44	
Chloromethane	ug/kg	ND	112	112	71.5	70.7	64	63	10-128	1	39	
cis-1,2-Dichloroethene	ug/kg	ND	112	112	101	92.5	90	83	17-140	9	46	
cis-1,3-Dichloropropene	ug/kg	ND	112	112	95.8	84.6	86	76	10-142	12	43	
Dibromochloromethane	ug/kg	ND	112	112	104	93.7	93	84	10-149	10	42	
Methylene chloride	ug/kg	ND	112	112	110	98.5	95	84	15-140	11	46	
Tetrachloroethene	ug/kg	ND	112	112	89.4	81.7	80	73	10-150	9	48	
trans-1,2-Dichloroethene	ug/kg	ND	112	112	87.6	76.4	79	68	20-140	14	42	
trans-1,3-Dichloropropene	ug/kg	ND	112	112	96.5	85.9	86	77	10-149	12	41	
Trichloroethene	ug/kg	ND	112	112	101	89.5	90	80	14-146	12	45	
Vinyl chloride	ug/kg	ND	112	112	76.4	70.9	68	64	19-131	7	37	
1,2-Dichloroethane-d4 (S)	%						101	101	75-129			
4-Bromofluorobenzene (S)	%						102	102	76-123			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Soil
Pace Project No.: 60176262

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1429864 1429865

Parameter	Units	60176101001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%						101	100	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

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

QUALITY CONTROL DATA

Project: Ft. Smith Soil
Pace Project No.: 60176262

QC Batch: PMST/9930 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60176262001, 60176262002, 60176262003, 60176262004, 60176262005, 60176262006, 60176262007, 60176262008

METHOD BLANK: 1429859 Matrix: Solid
Associated Lab Samples: 60176262001, 60176262002, 60176262003, 60176262004, 60176262005, 60176262006, 60176262007, 60176262008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/21/14 00:00	

SAMPLE DUPLICATE: 1429860

Parameter	Units	60176101001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.4	10.0	4	20	

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REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALIFIERS

Project: Ft. Smith Soil
Pace Project No.: 60176262

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ft. Smith Soil
Pace Project No.: 60176262

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60176262001	**SED-01-SL-20140820**	EPA 8260	MSV/63820		
60176262002	**SED-02-SL-20140820**	EPA 8260	MSV/63820		
60176262003	**SED-03-SL-20140820**	EPA 8260	MSV/63820		
60176262004	**SED-04-SL-20140820**	EPA 8260	MSV/63820		
60176262005	**SED-05-SL-20140820**	EPA 8260	MSV/63820		
60176262006	**SED-06-SL-20140820**	EPA 8260	MSV/63820		
60176262007	**SED-07-SL-20140820**	EPA 8260	MSV/63820		
60176262008	**SED-08-SL-20140820**	EPA 8260	MSV/63820		
60176262001	**SED-01-SL-20140820**	ASTM D2974	PMST/9930		
60176262002	**SED-02-SL-20140820**	ASTM D2974	PMST/9930		
60176262003	**SED-03-SL-20140820**	ASTM D2974	PMST/9930		
60176262004	**SED-04-SL-20140820**	ASTM D2974	PMST/9930		
60176262005	**SED-05-SL-20140820**	ASTM D2974	PMST/9930		
60176262006	**SED-06-SL-20140820**	ASTM D2974	PMST/9930		
60176262007	**SED-07-SL-20140820**	ASTM D2974	PMST/9930		
60176262008	**SED-08-SL-20140820**	ASTM D2974	PMST/9930		

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Sample Condition Upon Receipt

WO# : 60176262

60176262

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ VEA

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 ☑ ZPLC

Thermometer Used: T-239 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 0.8

Temperature should be above freezing to 6°C

Date and initials of person examining contents: NB 8/21/14

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. Kits
Rush Turn Around Time requested:	☑Yes ☐No ☐N/A	7. 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: SL		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, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	~~☐Yes~~ (No) ☐N/A	
Pace Trip Blank lot # (if purchased):	NB 8/21/14	15.
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☑No ☐N/A	17. List State: AR

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW Date: 8/21/14

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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:	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:	MJ Walls
Requested Due Date/TAT:	24 Hr TAT	Project Number:		Pace Profile #:	7444 water, 7709 soil

REGULATORY AGENCY

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

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	Analysis Test: 8260 client specific list	Analysis Test: 8260 Chlorinated	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SED-01-SL-20140820	SL	G			8/20/14	1245		5	X						X	X		1	X	Y	60176262
2	SED-02-SL-20140820						1300															
3	SED-03-SL-20140820						1315															
4	SED-04-SL-20140820						1410															
5	SED-05-SL-20140820						1450															
6	SED-06-SL-20140820						1500															
7	SED-07-SL-20140820						1510															
8	SED-08-SL-20140820						1520															
9																						
10																						
11																						
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)
24 Hr TAT!	ENVIRON	8/20/14	1800		8/21/14	0130	0.8	Y	Y	Y
Call Wendy Stonestreet for 8260 chlorinated specific list										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 8/20/14

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

ADEQ

A R K A N S A S
Department of Environmental Quality

CERTIFIED MAIL 91 7199 9991 7030 4902 6948

October 14, 2014

Whirlpool Corporation
Attn: Mr. Robert Karwowski
Director, Environmental, Health & Safety
2000 North M-63
Benton Harbor, MI 49022

RE: Whirlpool Corporation, Fort Smith, Arkansas
Surface Water and Sediment Sampling – September 18, 2014
EPA No. ARD042755389 AFIN No. 66-00048
Consent Administrative Order (CAO) LIS 13-202

Dear Mr. Karwowski:

The Arkansas Department of Environmental Quality – Hazardous Waste Division (ADEQ) has completed the review of Surface Water and Sediment Sampling near Whirlpool Corporation facility. ADEQ approves the report. If there are any questions concerning this submittal, please contact me at (501) 682-0837 or e-mail me at mehran@adeq.state.ar.us.

Sincerely,

Mostafa Mehran
Engineer
Technical Branch
Hazardous Waste Division

cc: Jeffrey Noel, Corporate VP Communications & Public Affairs, Whirlpool Corporation, 200 M63 North, MD 3108, Benton Harbor, MI 49022

Mike Ellis, Environ International Corporation, St. Louis, MO