Hazardous Waste Section

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Hazardous Waste Section

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Your Name:	Mary Siedlecki
EPA ID:	N C D 0 6 7 2 0 3 7 5 2
Facility Name:	Schneider Electric
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Description:	May 2014 Annual Groundwater Monitoring Report (first draft of the report; response letter mailed Sept 10, 2014, requesting revision to the report).
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July 14, 2014

Ms. Mary Siedlecki
Hazardous Waste Section
North Carolina Department of Environment & Natural Resources
217 West Jones St.
Raleigh, NC 27603

RE: May 2014 Annual Groundwater Monitoring Report
Schneider Electric (former Square D Company)
Knightdale, NC
NCD067203752

Dear Ms. Siedlecki:

Enclosed please find one copy of the May 2014 Annual Groundwater Monitoring Report for the Schneider Electric (former Square D Company) facility in Knightdale, NC. An electronic copy was submitted via email to your attention. The results of the groundwater sampling conducted May 30, 2014, are consistent with the results of previous sampling events.

If you have any comments or questions about this report, please contact me at 416-999-6071 or by email at Rakesh.Patel@schneider-electric.com.

Yours truly,
SCHNEIDER ELECTRIC

Rakesh Patel
Director Safety and Environment

CC: Harry Hyatt, Facilities Engineering Manager, Knightdale, NC

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MAY 2014 ANNUAL GROUNDWATER MONITORING REPORT
SQUARE D COMPANY (*now SCHNEIDER ELECTRIC*)
KNIGHTDALE, NORTH CAROLINA
(EPA ID NO./RCRA PERMIT NO. NCD067203752)

Prepared for:

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Solutions-IES Project No. 2014.0025.SCHN

July 3, 2014

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1.0 INTRODUCTION

Solutions-IES, Inc. (SIES) has prepared this report in accordance with the requirements originally set forth in the Post-Closure Permit and the subsequent Permit Modification (Permit Number and EPA ID No. NCD067203752) for the Square D Company (now Schneider Electric) facility located on U.S. Highway 64 East in Knightdale, North Carolina. This report also includes modifications under the Hazardous and Solid Waste Amendments (HSWA)-Only Permit approved August 10, 2007, for the facility. The report presents the results from the annual groundwater monitoring event in 2014, and is the 12th report submitted after the shutdown of the groundwater recovery system in August 2007. Note that historical activities referred to in this report refer to Square D Company (Square D); environmental compliance activities subsequent to 2007 are referred to in this report as being conducted by Schneider Electric.

1.1 BACKGROUND

The Square D facility in Knightdale historically operated two wastewater lagoons to equalize effluent flow from its waste treatment process. The lagoons were designated as Solid Waste Management Unit (SWMU) 27. The lagoons were taken out of service in 1985 and certified as closed in 1988. Based on this activity, the facility became subject to post-closure monitoring requirements under the Resource Conservation and Recovery Act (RCRA). The Hazardous Waste Management Permit (Permit) for the facility was issued on September 30, 1991.

A groundwater recovery system was installed at the site in 1993. It was comprised of three recovery wells and was designed to capture volatile organic compound (VOC)-contaminated groundwater. Recovered groundwater was treated by air stripping and carbon adsorption prior to discharge to Marks Creek in accordance with NPDES Permit # NC0081540. The groundwater recovery and treatment system began operation in September 1993. From 1993 through 1999, quarterly monitoring was conducted at 11 monitoring wells per the Permit schedule.

On March 2, 1999, the North Carolina Department of Environment and Natural Resources Hazardous Waste Section (HWS) approved a request for a Permit modification to reduce sampling frequency from quarterly to semi-annually, reduce the number of wells in the monitoring well network from 11 to 7, and modify operation and maintenance requirements. The required application for renewal of the Permit was

submitted on May 30, 2001. The amended groundwater monitoring program remained in effect beyond the Permit's expiration date pending approval of the application for renewal.

In September 2003, Square D removed soil from the lagoons at SWMU 27 that contained regulated constituents exceeding unrestricted use levels. Concurrently, Square D worked with the HWS and SIES to develop a strategy and proposal for the Monitored Natural Attenuation (MNA) of residual chlorinated solvents in groundwater. The MNA proposal was included as an Appendix in the HSWA-Only Permit Application prepared by TetraTech, Inc., which was submitted in February 2005.

Written approval of the HSWA-Only Permit was received August 10, 2007 (**Appendix A**). The approval included acceptance of MNA as the groundwater remedy and allowed for the shutdown of the groundwater recovery wells and treatment system and a further modification to the sampling protocol. The groundwater recovery system was shut down on August 24, 2007, and the revised monitoring program pursuant to the MNA groundwater remedy took effect.

In accordance with the HSWA-Only Permit, the performance monitoring program for MNA is to remain in effect until data show that the remedial objective for groundwater is reached, the remedy changes, or other permit modification is implemented that changes or terminates the program. The performance monitoring program requires a minimum of three years of post-shutdown groundwater and surface water data to evaluate the effectiveness of the remedy.

This report is the 12th report prepared after shutdown of the groundwater recovery system in August 2007 and documents site conditions approximately 81 months (6.8 years) after cessation of active remediation. Schneider Electric continues to evaluate the effectiveness of MNA to: 1) protect Marks Creek from an exceedance of the 15A NCAC 2B surface water standards (NC 2B Standards) and 2) achieve the 15A NCAC 2L.0202 groundwater standards (NC 2L Standards). In June 2011, Schneider Electric used trend analysis based on historical data summarized in the semi-annual groundwater monitoring reports to apply for a Class 3 Permit Modification. The permit modification allows deconstruction and complete removal of the groundwater treatment system from the property and also allows active *in situ* chemical oxidation (ISCO) to be implemented in the vicinity of the compliance wells near Marks Creek, should Schneider Electric wish to do so. **Figure 1** shows the site features including an estimate of the areal extent of residual VOCs in groundwater between the closed lagoons and Marks Creek. The Class 3 Permit

Modification was approved on November 21, 2011. The permit modification did not provide for a change in groundwater remedy or sampling frequency.

On March 16, 2012, Schneider Electric submitted a letter *Request for Reduction in Groundwater Monitoring Frequency* to the HWS. The requested change constituted a Class 1 Permit Modification to reduce the monitoring frequency from semi-annual to annual. The modification was approved in a letter dated April 24, 2012. Because the next sampling event was scheduled in May 2012, it was agreed that annual sampling events would be in May of each year[1]. The results of the current (May 2014) monitoring event discussed in this report are from the third annual sampling event after approval of the Class 1 Permit Modification.

1.2 SCOPE OF WORK

This report describes the results of the annual groundwater monitoring event conducted May 30, 2014, in accordance with the requirements of the MNA program as specified in the HWSA-Only Permit. The scope of work for the May 2014 sampling event included measurement of water levels in 30 on-site monitoring/extraction/supply wells, and in four piezometers and at two stream gauges within Marks Creek; measurement of water quality parameters in eight monitor wells; and collection of groundwater samples from eight monitoring wells and three surface water locations for VOC analysis. In addition, groundwater samples from three wells identified in the HSWA-Only Permit were analyzed for 1,4-dioxane.

Section 2.0 presents the field activities and sampling methods. Section 3.0 provides water-level measurements, analytical results and interpretations of groundwater flow direction and contaminant distribution. Conclusions and recommendations are discussed in Section 4.0.

2.0 FIELD ACTIVITIES AND GROUNDWATER SAMPLING

SIES conducted the water level monitoring and groundwater sampling on May 30, 2014. The depth-to-water was measured in 29 of the 30 monitoring wells, four piezometers placed in Marks Creek, and at two surface water gauges. Monitoring well MW-27 was unable to be located during the field event. ? Construction details for each of these monitoring points are provided in **Table 1**. The revised MNA monitoring program outlined in Table 2 of Appendix 2 of the HSWA-Only Permit requires sampling and

[1] Personal communication with Ms. Mary Siedlecki, NCDENR Hazardous Waste Section.

analysis of eight wells in the downgradient portion of the site in the vicinity of Marks Creek: MW-3, MW-5, MW-11, MW-12, MW-17, MW-19, MW-20 and MW-21. The eight compliance-well sampling locations are shown on **Figure 1**.

The static water level was gauged using an electronic water-level indicator. During the well purging activities, groundwater temperature, pH, specific conductance, dissolved oxygen (DO) and oxidation-reduction potential (ORP) were measured with a field-calibrated YSI Model 556 water quality meter equipped with a flow-through cell.

GW

The groundwater sampling protocol consisted of purging and sampling six of the eight wells outfitted with dedicated Well Wizard® bladder pumps via low-flow sampling techniques. Monitor wells MW-3 and MW-5 do not contain dedicated pumps and were purged and sampled with a peristaltic pump using new disposable polyethylene tubing. Following purging, groundwater samples were collected directly from the Well Wizard® Teflon®-lined tubing or new polyethylene tubing. The field notes and water sampling logs are included in **Appendix B**.

SW

Surface water sampling of Marks Creek was conducted beginning with the downstream location at stream gauge 1 (SG-1) and moving upstream to the location adjacent to piezometer P-2. The samples were collected upstream of the field technician by gently dipping a clean laboratory-supplied jar into the stream and transferring the contents to the appropriate sample containers. Field parameters were measured at the time of sample collection.

The samples were collected in laboratory-supplied glassware, placed in insulated coolers and then chilled to approximately 4°C with ice. All samples, along with appropriate chain-of-custody documentation, were submitted to Pace Analytical Services, Inc. (Pace Lab) of Huntersville, NC, a North Carolina certified laboratory, for VOC analysis by EPA Method 8260 and 1,4-dioxane analysis by EPA Method 8270. Purge water was collected in 5-gallon buckets and transferred to a 55-gallon drum staged onsite pending investigation-derived waste (IDW) characterization based upon the analytical data.

3.0 RESULTS

This section presents the results of the groundwater monitoring, including an interpretation of groundwater flow direction and a discussion of the laboratory analytical results.

3.1 GROUNDWATER ELEVATIONS AND FLOW DIRECTION

The historical results of water level measurements taken at the four piezometers and two surface gauges in Marks Creek are presented in **Table 2**. The historical depth to groundwater in the 30 wells that are routinely gauged and the corresponding groundwater elevations are presented on **Table 3**.

Groundwater flow within the surficial aquifer (**Figure 2**) is to the east-southeast towards Marks Creek. The average horizontal hydraulic gradient measured from MW-14 to MW-12 and MW-5 is approximately 0.038 ft/ft (see calculations in **Appendix C**). Based on the potentiometric surface contours shown in **Figure 2**, the hydraulic gradient appears to be somewhat steeper within the western half of the site and flattens from the vicinity of the paved parking lot to Marks Creek along the eastern side of the property. These calculations are consistent with previous horizontal hydraulic gradient measurements.

Groundwater flow within bedrock during the May 2014 sampling event is also toward the east (**Figure 3**). The hydraulic gradient and the groundwater flow direction in the bedrock aquifer appear to be similar to the shallow aquifer system across the site and are consistent with previous measurements and with pre-recovery system observations. The horizontal gradient between MW-1 and MW-17 in May 2014 is approximately 0.044 ft/ft (**Appendix C**).

As shown in the calculations in **Appendix C**, the vertical gradient between pairs of nested wells including MW-11, MW-19 and MW-21 indicate a downward flow potential of 0.034 ft/ft between the shallow water table at MW-11 and the intermediate zone at MW-19 and a similar downward flow potential of 0.023 ft/ft between MW-11 and bedrock well MW-21. A very slight downward gradient of 0.004 ft/ft was also measured between MW-19 and MW-21. Results from nested wells MW-12, MW-17, and MW-20, also showed similar downward gradients ranging from 0.026 ft/ft (MW-12 to MW-17) to 0.021 ft/ft (MW-12 to MW-20) to 0.014 ft/ft (MW-17 to MW-20).

3.2 WATER QUALITY PARAMETERS

Water quality parameters including temperature, pH, specific conductance, DO and ORP were measured in the field during well purging and sampling activities. The historical and current measurements for eight monitoring wells and three surface water samples are provided in **Table 4**. The groundwater measurements were grouped to evaluate if there were recognizable differences between shallow and intermediate/deep groundwater. The results are shown in **Table 4a** below.

In May 2014, the pH values were consistent with historical measurements and the average pH in the shallow monitoring wells tends to be somewhat more acidic (pH 5.59) than the deeper intermediate/bedrock wells (pH 7.27). The average DO, ORP and specific conductivity in the shallow and deep groundwater were very similar and the measurements were consistent with historical conditions. The data suggest relatively aerobic and oxidizing conditions throughout the aquifer.

TABLE 4a.
Comparison of Water Quality Parameters in Shallow and Deep Groundwater

	pH (S.U.)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Specific Conductivity (µS/cm)
Shallow Monitoring Wells (3)				
Minimum	5.53	0.78	-6.8	239
Maximum	5.63	1.02	4.4	288
Average	5.59	0.92	-2.6	269
± Std. Dev.	0.06	0.12	6.1	27
Intermediate/Deep Monitoring Wells (5)				
Minimum	5.71	0.76	-49.8	198
Maximum	8.45	1.51	-8.3	363
Average	7.27	0.99	-30.4	295
± Std. Dev.	1.19	0.30	15.3	71

3.3 GROUNDWATER SAMPLING RESULTS

Several chlorinated VOCs have historically been considered the contaminants of concern at the site. Originally these included 1,1-dichloroethene (1,1-DCE), 1,1-dichloroethane (1,1-DCA), 1,1,1-trichloroethane (1,1,1-TCA) and tetrachloroethene (PCE), but 1,1,1-TCA has not been reported above the laboratory detection limit in any of the eight monitor wells since 1984 and PCE has been reported only sporadically at concentrations just above the detection limit. A summary of the historical VOC analytical results for the eight monitoring wells and three surface water locations is provided in **Table 5**. Occasional historical detections of other VOCs such as *cis*-1,2-dichloroethene (*cis*-1,2-DCE) and trichlorofluoromethane (TCFM) are also shown. The groundwater VOC results were compared to the NC 2L Standards. 1,1-DCA has been detected at low concentrations in all the wells, but until the NC 2L Standard was lowered in January 2010 from 700 to 6 µg/L, none of these concentrations exceeded the standard. 1,1-DCA currently slightly exceeds the NC 2L Standard in MW-3, MW-19 and MW-20.

PCE

According to the HSWA-only Permit, the principal contaminant of concern at the site is 1,1-DCE, which for many years was reported above its NC 2L Standard of 7 µg/L in both saprolite (overburden) and

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bedrock monitoring wells, particularly in the vicinity of Marks Creek. In addition, because of the historical presence of 1,1,1-TCA on site, in April 2004, the HWS requested that selected wells be sampled for 1,4-dioxane, a stabilizer often found in 1,1,1-TCA solvent. Analysis of 1,4-dioxane has continued in monitor wells MW-11, MW-12 and MW-17, where it was initially reported in 2004. The historical 1,4-dioxane detections are also summarized in **Table 5**. In January 2010, the NC 2L Standard for 1,4-dioxane was lowered from 7 to 3 µg/L. This is noted in the table.

Per the HSWA-Only Permit, the concentration of 1,1-DCE that would trigger active remediation is 6,900 µg/L either in groundwater or surface water. **Figure 4** displays the May 2014 analytical results for 1,1-DCE at the monitoring locations included in the MNA performance monitoring program and **Table 5** shows the historical data. The sampling results are discussed in the following paragraphs. A copy of the laboratory analytical report and chain-of-custody documentation is included as **Appendix D**.

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1,1-DCE was detected in seven of the eight groundwater monitor well samples, but it only exceeded the NC 2L Standard of 7 µg/L in MW-3 (7.5 µg/L) and MW-20 (8.0 µg/L). 1,1-DCA was detected in all eight monitor wells and exceeded the new NC 2L Standard of 6 µg/L in MW-3 (14.1 µg/L), MW-19 (6.1 µg/L) and MW-20 (6.9 µg/L). 1,4-Dioxane was detected in two of the three monitor wells where it was sampled and exceeded the revised NC 2L Standard of 3 µg/L in each, including MW-12 (5.2 µg/L) and MW-17 (7.6 µg/L). PCE

Samples collected from monitoring well cluster MW-12, MW-17 and MW-20 represent the vertical distribution of VOC impacts downgradient of the former sludge drying area and the former northern closed lagoon. **Table 5a** below summarizes the May 2014 analytical results at this well cluster for the most frequently detected VOCs and 1,4-dioxane; 1,4-dioxane analysis is not required in MW-20 because 1,4-dioxane was not detected during the initial sampling in April 2004. The highest groundwater concentrations are in the transition zone between shallow aquifer and bedrock. Both 1,1-DCA and 1,1-DCE remain close to, but still above their NC 2L Standards in this intermediate portion of the aquifer. 1,4-Dioxane also remains above the NC 2L Standard.

TABLE 5a.
Distribution of VOCs in Well Cluster MW-12, MW-17 and MW-20

Well ID	Screened Interval (ft bgs)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	1,4-Dioxane (µg/L)
MW-12	3.6 to 13.3 (shallow)	1.4	1.5	5.2
MW-17	52.3 to 67.3 (intermediate)	4.5	4.8	7.6
MW-20	95.5 to 105.5 (deep)	6.9	8.0	NS

Shaded cells exceed the NC 2L Groundwater Standard

Samples collected from well cluster MW-11, MW-19 and MW-21 (located southeast of MW-12/MW-17/MW-20) along Marks Creek represent the vertical distribution of VOC impacts most directly downgradient of the former southern closed lagoon. **Table 5b** below summarizes the analytical results at this well cluster for the most frequently detected VOCs. Results of the 1,4-dioxane analysis for MW-11 are also shown; 1,4-dioxane analysis is not required in monitor wells MW-19 or MW-21 because 1,4-dioxane was not detected during the initial sampling in April 2004. 1,1-DCA was detected in each of these monitor well samples, but only exceeded the NC 2L Standard of 6 µg/L in MW-19 during the May 2014 sampling event. None of these wells exceeded the NC 2L Standard for 1,1-DCE.

TABLE 5b.
Distribution of VOCs in Well Cluster MW-11, MW-19 and MW-21

Well ID	Screened Interval (feet bgs)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	1,4-Dioxane (µg/L)
MW-11	5.2 to 15.2 (shallow)	1.7	< 1.0	< 3.0
MW-19	61.5 to 76.5 (intermediate)	6.1	4.2	NS
MW-21	95 to 105 (deep)	3.5	2.2	NS

Shaded cells exceed the NC 2L Groundwater Standard

3.4 SURFACE WATER SAMPLING RESULTS

Surface water samples were collected near stream gauging station SG-1 (downstream) and from the area near piezometer P-2 (located between SG-1 and SG-2). These samples were analyzed for VOCs. No VOCs were detected in these samples above the laboratory reporting limits during the May 2014 event (**Table 5**). The concentrations in surface water samples are shown on **Figure 4**.

3.5 QA/QC SAMPLES

The results of the Trip Blank, Field Blank and groundwater duplicate taken from MW-12 (DUP-1) are provided in the analytical report in **Appendix D**. No VOCs were reported in the Trip Blank; no VOCs or 1,4-dioxane were reported in the Field Blank. The concentrations of 1,1-DCA (1.5 µg/L) and 1,1-DCE (1.5 µg/L) in the duplicate were comparable to the primary sample from MW-12.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The pump-and-treat system operation at the Square D facility was terminated and replaced with a MNA remedy in August 2007 as a result of low VOC concentrations in groundwater and diminishing mass removal rates. The results of the historical groundwater monitoring up to and including May 2014 lead to the following conclusions:

- Groundwater flows consistently east-southeast towards Marks Creek in both the shallow and intermediate/bedrock portions of the aquifer. The groundwater and surface water elevations in the piezometers indicate that Marks Creek is a gaining stream, and is a groundwater discharge feature providing control of off-site migration.

- 1,1-DCE, 1,1-DCA and 1,4-dioxane remain the only constituents detected above their respective NC 2L Standards. The historical and current data continue to show slowly decreasing 1,1-DCE concentrations. Currently, 1,1-DCE remains above the NC 2L standard in only two (MW-3 and MW-20) of the eight compliance wells that are monitored. 1,1-DCA was detected above the NC 2L standard in three wells during the May 2014 event (MW-3, MW-19 and MW-20). 1,4-Dioxane was detected above the NC 2L Standard in two of the three wells sampled; however, the concentrations remain slightly lower, but similar to initial levels reported in April 2004.

- 1,1-DCE remains absent in the surface water samples suggesting attenuation mechanisms are controlling advection toward Marks Creek. The mechanisms likely include dilution, dispersion, diffusion and retardation. Biological degradation remains minimal, if at all.

This report presents results in the seventh year of monitoring following shutdown of the groundwater treatment system and continued implementation of the MNA performance monitoring program. There is no evidence of contaminant rebound since the groundwater system was turned off in August 2007. The current and historical monitoring results indicate that the surface water and groundwater concentrations of 1,1-DCE have been maintained well below the HSWA-Only Permit contingency of 6,900 µg/L for the last 7 years and there is no expectation that conditions would change. The site is very close to achieving the permit remediation goals for groundwater (i.e., the NC 2L Standards) for the identified contaminants of concern and the conditions have been met pursuant to the approved Class 3 Permit Modification that

allow Schneider Electric to tear down and remove the groundwater treatment system entirely from the site.

The MNA performance monitoring program remains in place until data show that the remedial objective for groundwater is reached, the remedy changes or other permit modification is implemented that changes or terminates the program. A Class 1 Permit Modification was approved April 24, 2012, that changed the monitoring frequency from semi-annual to annual. Based on this approval, the next regularly scheduled groundwater monitoring event will be May 2015. However, concurrent with submitting this groundwater monitoring report, Schneider Electric continues to work with the HWS to finalize their submittal entitled: *Remedial Action Plan Supplement in Support of Site-Specific Standards for Final No Further Remediation Determination (RAP Supplement)* dated May 1, 2012. The RAP Supplement was prepared by SIES for Schneider Electric in accordance with North Carolina N.C.G.S. 130A-310.65 to 310.77, which allows for risk-based closure of groundwater incidents at applicable industrial sites. Should approval of the RAP Supplement be granted, no further remediation monitoring may be required at the Knightdale site.

TABLE 1
WELL CONSTRUCTION DATA SUMMARY
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTIONS-IES PROJECT NO. 2014.0025.SCHN

Overburden Wells	Date of Construction	Riser Interval (ft bgs)	Screened Interval (ft bgs)	Total Depth (ft)	Casing Type	Well Diameter	Measuring Point Elevation (TOC-ft)
MW-4 (W-4)	6/81	0 - 32	32 - 37	37	PVC	2"	276.96
MW-5 (W-5)	6/81	0 - 35	35 - 40	40	PVC	2"	281.32
MW-6 (W-6)	6/81	0 - 35	35 - 40	40	PVC	2"	276.50
MW-10	2/85	0 - 14.4	14.4 - 24.2	25	PVC	2"	333.83
MW-11	2/85	1.2 - 5.2	5.2 - 15.2	15.5	PVC	2"	278.24
MW-12	2/85	2.3 - 3.6	3.6 - 13.3	15.5	PVC	2"	276.79
MW-13	2/85	0 - 27.7	27.7 - 37.5	44	PVC	2"	316.40
MW-14	7/87	0 - 20	20 - 30	30	PVC	2"	347.43
MW-24	11/91	2 - 18	18 - 28	28	Stainless Steel	2"	305.49
RW-1	NA	NA	NA	NA	NA	NA	274.65
OW-10 (N-10)	1/86	0 - 25	25 -30	32	PVC	3"	293.32
OW-20 (N-20)	1/86	0 - 25	25 -30	33	PVC	3"	293.75
OW-30 (W-30, MW-30)	1/86	0 - 25	25 -30	32	Stainless Steel	4"	293.10
OW-40 (W-20)	1/86	0 - 25	25 -30	32	PVC	3"	292.94
GEW-2	2/93	0 - 10	10 - 90	90	Stainless Steel	6"	275
GEW-3	2/93	0 - 10	10 - 94	94	Stainless Steel	6"	271
MW-25	10/94	0 - 22	22 - 37	37	PVC	4"	302.87
MW-26	10/94	0 - 27	27 - 42	42	PVC	4"	320.29
MW-27	8/94	0 - 25	25 -35	61	PVC	4"	341.63
MW-28	11/97	0 - 17	17 - 27	27	PVC	2"	299.88
Bedrock Wells	**Date of Construction**	**Riser Interval (ft bgs)**	**Screened Interval (ft bgs)**	**Total Depth (ft)**	**Casing Type**	**Diameter**	**Measuring Point Elevation (TOC-ft)**
MW-1 (W-1)	6/81	0 - 50	50 - 55	55	PVC	2"	351.81
MW-2 (W-2)	6/81	0 - 70	70 - 75	75	PVC	2"	318.55
MW-3 (W-3)	6/81	0 - 91	91 - 96	96	PVC	2"	278.74
MW-15	6/87	0 - 35	35 - 61	61	6" Galv. to 35'	4"	348.53
MW-16 (PW-2)	6/87	0 - 61	61 -332*	332	Steel to 61.0'	6"	344.18
MW-17	11/89	0 - 52.3	52.3 - 67.3	67.3	6" Steel to 47.5'	6"	277.59
MW-18	11/89	0 - 66.5	66.5 - 81.5	81.5	6" Steel to 65.5'	6"	315.78
MW-19	11/89	0 - 61.5	61.5 - 76.5	76.5	6" Steel to 57.0'	6"	278.21
MW-20	11/89	0 - 95.5	95.5 - 105.5	105.5	6" Steel to 57.5'	6"	276.88
MW-21	11/89	0 - 95	95 - 105	105	6" Steel to 75.0'	6"	278.31
MW-22	11/89	0 - 113	113 - 123	123	6" Steel to 71.0'	6"	315.09
MW-23	6/90	0 - 59.7	59.7 - 70.3	76.6	6" Steel to 48.5'	6"	299.58
GEW-1 (PW-1)	3/82	0 - 41	41 - 107*	107	Steel to 41.0'	6"	316.88
SW-1	12/96	0 - 56	56 - 352*	352	Galv. to 56'	6.25"	328.37
SW-2	12/96	0 - 20	20 - 352*	352	Galv. to 20'	6.25"	323.62
Abandoned Wells	**Date of Construction**	**Riser Interval (ft bgs)**	**Screened Interval (ft bgs)**	**Total Depth (ft)**	**Casing Type**	**Diameter**	**Measuring Point Elevation (TOC-ft)**
SP-1	7/87	NA	0 - 10	10	PVC	2"	319.52
SP-2	7/87	0 - 30	30 - 40	40	PVC	2"	309.27
SP-3	7/87	0 - 35	35 - 45	45	PVC	2"	305.93
SP-4	7/87	0 - 15	15 - 25	25	PVC	2"	320.76
SP-5	7/87	0 - 20	20 - 30	30	PVC	2"	316.69
SP-6	7/87	0 - 20	20 -30	30	PVC	2"	315.94
Piezometers and Stream Gauges	**Date of Construction**	**Riser Interval (ft bgs)**	**Screened Interval (ft bgs)**	**Total Depth (ft)**	**Casing Type**	**Diameter**	**Measuring Point Elevation (TOC-ft)**
P-1	4/01	0 - 12	12 - 13	13	Steel	3/4"	270.19
P-2	4/01	0 - 12	12 - 13	13	Steel	3/4"	268.56
P-3	4/01	0 - 12	12 - 13	13	Steel	3/4"	271.40
P-4	4/02	0 - 14	14 - 15	15	Steel	3/4"	268.34
SG-1	4/02	NA	NA	NA	NA	NA	267.21 (6' marker)
SG-2	4/02	NA	NA	NA	NA	NA	273.18 (6' marker)

Note:
ft bgs = feet below ground surface
Piezometer survey data based on May 2002 survey
PVC = polyvinyl chloride
"NA" denotes information not available
TOC-ft = top of casing in feet above mean sea level

TABLE 2
PIEZOMETER AND STREAM GAUGE READINGS IN MARKS CREEK
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTIONS-IES PROJECT NO. 2014.0025.SCHN

Piezometer	TOC Elevation (ft msl)	Date	Depth to Groundwater (ft)	Depth to Surface Water (ft)	Groundwater Elevation (ft msl)	Surface Water Elevation (ft msl)	Difference (SW-GW) (ft)
		05/01/01	2.75	3.31	267.46	266.90	-0.56
		05/08/01	2.72	3.31	267.49	266.90	-0.59
		05/16/01	2.76	3.14	267.45	267.07	-0.38
		06/01/01	2.69	3.06	267.52	267.15	-0.37
		09/05/01	2.67	3.27	267.54	266.94	-0.60
		11/14/01	2.68	3.22	267.53	266.99	-0.54
		05/06/02	2.03	2.43	268.18	267.78	-0.40
		11/11/03	1.90	2.75	268.31	267.46	-0.85
		05/13/03	2.42	2.87	267.79	267.34	-0.45
		12/01/03	2.50	3.32	267.71	266.89	-0.82
		04/14/04	2.74	3.22	267.47	266.99	-0.48
		11/15/04	3.01	3.35	267.20	266.86	-0.34
		05/09/05	2.24	3.24	267.97	266.97	-1.00
P-1	270.21	11/08/05	3.13	3.10	267.08	267.11	0.03
		4/25/06	3.33	3.24	266.88	266.97	0.09
		10/17/06	Flooded, not accessible				
		5/20/08	2.38	2.97	267.83	267.24	-0.59
		11/5/08	2.46	2.86	267.75	267.35	-0.40
		05/04/09	2.35	2.90	267.86	267.31	-0.55
		11/16/09	2.09	2.68	268.12	267.53	-0.59
		05/05/10	2.50	3.12	267.71	267.09	-0.62
		11/04/10	2.27	2.98	267.94	267.23	-0.71
		05/03/11	2.40	2.09	267.81	268.12	0.31
		11/02/11	2.45	2.96	267.76	267.25	-0.51
		05/02/12	2.01	3.03	268.20	267.18	-1.02
		05/22/13	1.86	3.14	268.35	267.07	-1.28
		05/30/14	2.78	3.26	267.43	266.95	-0.48
		05/01/01	4.68	1.49	263.89	267.08	3.19
		05/08/01	3.21	1.49	265.36	267.08	1.72
		05/16/01	1.10	1.42	267.47	267.15	-0.32
		06/01/01	0.82	1.40	267.75	267.17	-0.58
		09/05/01	0.25	1.33	268.32	267.24	-1.08
		11/14/01	0.63	1.43	267.94	267.14	-0.80
		05/06/02	0.45	0.79	268.12	267.78	-0.34
		11/11/03	0.58	0.96	267.99	267.61	-0.38
		05/13/03	0.60	1.15	267.97	267.42	-0.55
		12/01/03	1.11	1.25	267.46	267.32	-0.14
		04/14/04	0.87	1.35	267.7	267.22	-0.48
		11/15/04	0.97	1.52	267.6	267.05	-0.55
		05/09/05	1.07	1.5	267.5	267.07	-0.43
P-2	268.57	11/08/05	NM	NM	NM	NM	NM
		04/25/06	NM	NM	NM	NM	NM
		10/17/06	Flooded, not accessible				
		11/29/07	Marker post missing, presumed destroyed				
		5/20/2008 **	4.61	4.60	263.96	263.97	0.01
		11/5/08	0.10	1.06	268.47	267.51	-0.96
		05/04/09	0.59	2.02	267.98	266.55	-1.43
		11/16/09	0.16	0.88	268.41	267.69	-0.72
		05/05/10	0.16	1.40	268.41	267.17	-1.24
		11/04/10	0.34	1.24	268.23	267.33	-0.90
		05/03/11	0.29	1.28	268.28	267.29	-0.99
		11/02/11	0.60	1.30	267.97	267.27	-0.70
		05/02/12	0.45	1.13	268.12	267.44	-0.68
		05/22/13	0.62	1.13	267.95	267.44	-0.51
		05/30/14	0.70	1.18	267.87	267.39	-0.48
		05/01/01	3.8	3.86	267.66	267.60	-0.06
		05/08/01	3.42	3.86	268.04	267.60	-0.44
		05/16/01	3.36	3.84	268.1	267.62	-0.48
		06/01/01	3.20	3.79	268.26	267.67	-0.59
		09/05/01	2.61	3.59	268.85	267.87	-0.98
		11/14/01	2.50	3.59	268.96	267.87	-1.09
		05/06/02	2.47	3.64	268.99	267.82	-1.17
		11/11/03	2.41	3.35	269.05	268.11	-0.94
		05/13/03	1.58	3.65	269.88	267.81	-2.07
		12/01/03	0.56	3.53	270.9	267.93	-2.97
		04/14/04	2.55	3.48	268.91	267.98	-0.93
		11/15/04	2.09	3.62	269.37	267.84	-1.53
		05/09/05	2.26	3.69	269.2	267.77	-1.43
P-3	271.46	11/08/05	1.64	3.58	269.82	267.88	-1.94
		04/25/06	2.86	3.77	268.6	267.69	-0.91
		10/17/06	Flooded, not accessible				
		5/20/08	2.80	3.81	268.66	267.65	-1.01
		11/5/08	1.08	3.39	270.38	268.07	-2.31
		05/04/09	1.24	3.79	270.22	267.67	-2.55
		11/16/09	0.08	3.53	271.38	267.93	-3.45
		05/05/10	1.42	3.58	270.04	267.88	-2.16
		11/04/10	1.21	3.15	270.25	268.31	-1.94
		05/03/11	1.19	3.28	270.27	268.18	-2.09
		11/02/11	1.41	3.54	270.05	267.92	-2.13
		05/02/12	0.92	3.19	270.54	268.27	-2.27
		05/22/13	1.20	3.29	270.26	268.17	-2.09
		05/30/14	1.18	3.34	270.28	268.12	-2.16

TABLE 2
PIEZOMETER AND STREAM GAUGE READINGS IN MARKS CREEK
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTIONS-IES PROJECT NO. 2014.0025.SCHN

Piezometer	TOC Elevation (ft msl)	Date	Depth to Groundwater (ft)	Depth to Surface Water (ft)	Groundwater Elevation (ft msl)	Surface Water Elevation (ft msl)	Difference (SW-GW) (ft)
		05/06/02	3.41	4.06	264.93	264.28	-0.65
		11/11/03	2.95	4.10	265.39	264.24	-1.15
		05/13/03	2.99	4.02	265.35	264.32	-1.03
		12/01/03	2.75	4.17	265.59	264.17	-1.42
		04/14/04	3.40	3.93	264.94	264.41	-0.53
		11/15/04	2.58	3.67	265.76	264.67	-1.09
		05/09/05	3.04	3.98	265.3	264.36	-0.94
		11/08/05	2.85	3.88	265.49	264.46	-1.03
		04/25/06	2.92	4.02	265.42	264.32	-1.10
		10/17/06	Flooded, not accessible				
P-4	268.34	5/20/08	2.14	4.60	266.2	263.74	-2.46
		11/5/08	1.79	4.72	266.55	263.62	-2.93
		05/04/09	2.50	4.60	265.84	263.74	-2.10
		11/16/09	1.55	4.25	266.79	264.09	-2.70
		05/05/10	1.99	4.80	266.35	263.54	-2.81
		11/04/10	1.08	3.66	267.26	264.68	-2.58
		05/03/11	1.11	3.94	267.23	264.40	-2.83
		11/02/11	0.77	4.00	267.57	264.34	-3.23
		05/02/12	0.32	4.03	268.02	264.31	-3.71
		05/22/13	0.22	4.15	268.12	264.19	-3.93
		05/30/14	0.33	4.16	268.01	264.18	-3.83
		05/06/02		1.77		262.98	
		11/11/03		1.74		262.95	
		05/13/03		2.74		263.95	
		12/01/03		2.56		263.77	
		04/14/04		1.81		263.02	
		11/15/04		2.98		264.19	
		05/09/05		3.50		264.71	
		11/08/05		3.16		264.37	
		04/25/06		3.15		264.36	
		10/17/06		Flooded, not accessible			
SG-1	267.21	11/29/07		2.44		263.65	
		05/20/08		1.10		262.31	
		11/05/08		1.89		263.10	
		05/04/09		1.90		263.11	
		11/16/09		1.77		262.98	
		05/05/10		1.45		262.66	
		11/04/10		2.10		263.31	
		05/03/11		2.39		263.60	
		11/02/11		2.05		263.26	
		05/02/12		1.61		262.82	
		05/22/13		0.00		261.21	
		05/30/14		1.00		262.21	
		05/06/02		1.79		268.97	
		11/11/03		2.20		269.38	
		05/13/03		2.13		269.31	
		12/01/03		2.42		269.60	
		04/14/04		2.48		269.66	
		11/15/04		2.45		269.63	
		05/09/05		2.28		269.46	
		11/08/05		2.34		269.52	
		04/25/06		2.14		269.32	
		10/17/06		Flooded, not accessible			
SG-2	273.18	11/29/07		2.32		269.50	
		05/20/08		2.52		269.70	
		11/05/08		2.99		270.17	
		05/04/09		3.00		270.18	
		11/16/09		3.08		270.26	
		05/05/10		2.59		269.77	
		11/04/10		2.68		269.86	
		05/03/11		2.70		269.88	
		11/02/11		2.70		269.88	
		05/02/12		2.58		269.76	
		05/22/13		2.60		269.78	
		05/30/14		2.62		269.80	

Note:
Piezometer TOC elevations resurveyed May 2002 after installation of P-4
TOC elevations for SG-1 and SG-2 represent the elevation of the 6 ft marker on the stream gauge.
Stream Gauge (SG) surface water elevations are calculated as (TOC-6+reading)
ft msl = feet above mean sea level
** =DTW for P-2 Misread in field

TABLE 3
HISTORICAL AND CURRENT GROUNDWATER ELEVATIONS
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTONS-IES PROJECT NO. 2014.0025.SCHN

Measuring Point Elevation (ft msl)	GEW-1		GEW-2		GEW-3		MW-1		MW-2		MW-3		MW-4		MW-5		MW-6	
	TOC	316.88	TOC	275.00	TOC	271.00	TOC	351.81	TOC	318.55	TOC	278.74	TOC	276.96	TOC	281.32	TOC	276.50
Date	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)
05/06/02	34.12	282.76	8.39	266.61	8.54	262.46	13.77	338.04	36.49	282.06	15.14	263.60	8.82	268.14	11.87	269.45	11.02	265.48
11/11/02	36.10	280.78	10.10	264.90	9.25	261.75	10.49	341.32	36.80	281.75	14.38	264.36	8.90	268.06	11.01	270.31	10.53	265.97
05/13/03	32.15	284.73	10.05	264.95	9.87	261.13	8.73	343.08	31.91	286.64	14.81	263.93	8.93	268.03	10.64	270.68	10.80	265.70
12/01/03	32.40	284.48	10.13	264.87	8.80	262.20	11.30	340.51	32.84	285.71	13.82	264.92	9.10	267.86	10.88	270.44	10.55	265.95
04/14/04	31.85	285.03	8.60	266.40	8.45	262.55	10.05	341.76	32.12	286.43	13.60	265.14	8.76	268.20	10.49	270.83	10.18	266.32
11/15/04	32.50	284.38	10.46	264.54	8.98	262.02	11.76	340.05	32.71	285.84	14.21	264.53	9.23	267.73	11.04	270.28	10.64	265.86
05/09/05	21.35	295.53	10.35	264.65	8.13	262.87	11.14	340.67	31.68	286.87	13.36	265.38	9.50	267.46	10.54	270.78	10.23	266.27
11/08/05	NM	NM	10.70	264.30	11.17	259.83	17.94	333.87	35.90	282.65	16.23	262.51	9.50	267.46	12.71	268.61	12.13	264.37
04/24/06	31.35	285.53	10.73	264.27	11.40	259.60	14.48	337.33	35.52	283.03	16.35	262.39	9.56	267.40	12.18	269.14	12.20	264.30
10/16/06	31.80	285.08	10.87	264.13	11.45	259.55	16.45	335.36	35.83	282.72	16.12	262.62	9.32	267.64	12.32	269.00	12.31	264.19
04/30/07	30.44	286.44	8.45	266.55	12.22	258.78	10.78	341.03	32.62	285.93	16.57	262.17	9.29	267.67	11.21	270.11	10.02	266.48
11/29/07	NM	NM	NM	NM	NM	NM	19.81	332.00	33.66	284.89	11.21	267.53	8.83	268.13	12.39	268.93	9.08	267.42
05/20/08	NM	NM	NM	NM	NM	NM	10.61	341.20	31.45	287.10	10.79	267.95	8.55	268.41	10.29	271.03	8.77	267.73
11/05/08	NM	NM	NM	NM	NM	NM	14.20	337.61	32.41	286.14	11.03	267.71	8.61	268.35	11.76	269.56	8.90	267.60
05/04/09	NM	NM	NM	NM	NM	NM	10.30	341.51	29.96	288.59	10.76	267.98	8.51	268.45	10.35	270.97	8.75	267.75
11/16/09	NM	NM	NM	NM	NM	NM	14.54	337.27	31.16	287.39	10.68	268.06	8.32	268.64	10.52	270.80	8.59	267.91
05/05/10	NM	NM	NM	NM	NM	NM	10.64	341.17	27.89	290.66	10.81	267.93	8.50	268.46	10.01	271.31	8.82	267.68
11/04/10	NM	NM	NM	NM	NM	NM	13.28	338.53	29.99	288.56	10.97	267.77	8.44	268.52	10.87	270.45	8.86	267.64
05/03/11	NM	NM	NM	NM	NM	NM	14.00	337.81	30.54	288.01	10.89	267.85	8.61	268.35	10.30	271.02	8.85	267.65
11/02/11	NM	NM	NM	NM	NM	NM	14.49	337.32	31.82	286.73	11.50	267.24	8.68	268.28	11.51	269.81	9.03	267.47
05/02/12	NM	NM	NM	NM	NM	NM	15.61	336.20	31.20	287.35	11.16	267.58	8.71	268.25	11.00	270.32	9.09	267.41
05/22/13	NM	NM	NM	NM	NM	NM	12.38	339.43	30.67	287.88	11.09	267.65	8.76	268.20	10.68	270.64	9.32	267.18
05/30/14	NM	NM	NM	NM	NM	NM	9.33	342.48	28.10	290.45	11.03	267.71	9.58	267.38	9.76	271.56	9.04	267.46

Notes: Water level data from 1984 through 2001 are available in previous Semi-Annual Groundwater Monitoring Reports.
TOC = Top of casing
ft msl = feet above mean sea level
NM = Not Measured
GW Elev. = groundwater elevation; ft msl = feet above mean sea level
Blank spaces = data not available

TABLE 3
HISTORICAL AND CURRENT GROUNDWATER ELEVATIONS
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTONS-IES PROJECT NO. 2014.0025.SCHN

Measuring Point Elevation (ft msl)	MW-10		MW-11		MW-12		MW-13		MW-14		MW-15		MW-16		MW-17		MW-18	
	TOC	333.83	TOC	278.24	TOC	276.79	TOC	316.40	TOC	347.43	TOC	348.53	TOC	344.18	TOC	277.59	TOC	315.78
Date	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)
05/06/02	19.49	314.34	8.96	269.28	9.20	267.59	35.48	280.92	23.56	323.87	24.31	324.22	22.23	321.95	9.51	268.08	35.19	280.59
11/11/02	20.37	313.46	8.90	269.34	9.19	267.60	35.83	280.57	25.41	322.02	25.95	322.58	23.88	320.30	9.59	268.00	35.49	280.29
05/13/03	16.41	317.42	8.73	269.51	9.17	267.62	31.28	285.12	17.60	329.83	18.32	330.21	17.06	327.12	9.61	267.98	31.20	284.58
12/01/03	17.35	316.48	9.02	269.22	9.13	267.66	32.13	284.27	20.30	327.13	21.05	327.48	19.22	324.96	9.74	267.85	31.98	283.80
04/14/04	16.77	317.06	8.73	269.51	8.17	268.62	31.45	284.95	19.60	327.83	20.27	328.26	18.69	325.49	9.44	268.15	31.32	284.46
11/15/04	17.20	316.63	9.12	269.12	9.36	267.43	32.03	284.37	20.39	327.04	21.12	327.41	19.33	324.85	9.86	267.73	31.90	283.88
05/09/05	16.87	316.96	8.87	269.37	9.26	267.53	31.17	285.23	19.34	328.09	20.04	328.49	18.49	325.69	9.74	267.85	30.84	284.94
11/08/05	20.13	313.70	9.71	268.53	9.80	266.99	35.07	281.33	24.80	322.63	25.65	322.88	23.30	320.88	9.91	267.68	34.76	281.02
04/24/06	18.80	315.03	9.61	268.63	9.69	267.10	34.74	281.66	22.98	324.45	23.75	324.78	21.59	322.59	10.03	267.56	34.58	281.20
10/16/06	19.21	314.62	9.69	268.55	9.24	267.55	35.21	281.19	24.00	323.43	24.84	323.69	24.67	319.51	9.88	267.71	35.20	280.58
04/30/07	17.44	316.39	9.47	268.77	9.44	267.35	31.91	284.49	19.98	327.45	20.71	327.82	19.01	325.17	9.90	267.69	31.79	283.99
11/29/07	21.93	311.90	8.95	269.29	8.50	268.29	32.82	283.58	27.53	319.90	28.43	320.10	25.63	318.55	9.51	268.08	32.02	283.76
05/20/08	18.55	315.28	8.34	269.90	7.84	268.95	30.22	286.18	24.08	323.35	24.67	323.86	24.56	319.62	9.27	268.32	29.91	285.87
11/05/08	NM	NM	8.66	269.58	7.98	268.81	31.31	285.09	26.32	321.11	27.27	321.26	24.72	319.46	9.27	268.32	30.88	284.90
05/04/09	28.41	305.42	8.35	269.89	7.77	269.02	28.79	287.61	21.63	325.80	22.32	326.21	20.45	323.73	9.31	268.28	28.52	287.26
11/16/09	19.24	314.59	8.21	270.03	7.44	269.35	30.07	286.33	25.12	322.31	25.91	322.62	23.11	321.07	9.08	268.51	29.60	286.18
05/05/10	16.73	317.10	8.28	269.96	7.67	269.12	27.33	289.07	20.14	327.29	20.96	327.57	19.08	325.10	9.26	268.33	26.59	289.19
11/04/10	19.33	314.50	8.35	269.89	7.56	269.23	29.40	287.00	23.76	323.67	24.57	323.96	22.22	321.96	9.17	268.42	28.60	287.18
05/03/11	19.15	314.68	8.30	269.94	7.77	269.02	29.95	286.45	24.56	322.87	25.28	323.25	22.82	321.36	9.34	268.25	29.13	286.65
11/02/11	21.91	311.92	8.70	269.54	7.91	268.88	31.00	285.40	27.11	320.32	27.90	320.63	25.35	318.83	9.35	268.24	29.47	286.31
05/02/12	20.63	313.20	8.68	269.56	7.91	268.88	30.06	286.34	26.03	321.40	26.85	321.68	24.14	320.04	9.38	268.21	29.85	285.93
05/22/13	19.41	314.42	8.51	269.73	7.70	269.09	29.84	286.56	24.66	322.77	25.43	323.10	22.98	321.20	9.36	268.23	29.29	286.49
05/30/14	16.91	316.92	8.42	269.82	7.43	269.36	27.10	289.30	20.88	326.55	21.64	326.89	19.69	324.49	9.50	268.09	26.86	288.92

Notes: Water level data from 1984 through 2001 are available in previous Semi-Annual Groundwater Monitoring Reports.
TOC = Top of casing
ft msl = feet above mean sea level
NM = Not Measured
GW Elev. = groundwater elevation; ft msl = feet above mean sea level
Blank spaces = data not available

TABLE 3
HISTORICAL AND CURRENT GROUNDWATER ELEVATIONS
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTONS-IES PROJECT NO. 2014.0025.SCHN

Measuring Point Elevation (ft msl)	MW-19		MW-20		MW-21		MW-22		MW-23		MW-24		MW-25		MW-26		MW-27		MW-28	
	TOC	278.21	TOC	276.88	TOC	278.31	TOC	315.09	TOC	299.58	TOC	305.49	TOC	302.87	TOC	320.29	TOC	341.63	TOC	299.88
Date	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)	Depth to Water (ft)	GW Elev (ft msl)
05/06/02	10.37	267.84	9.34	267.54	10.58	267.73	34.37	280.72	21.11	278.47	25.32	280.17			32.35	287.94	20.78	320.85	19.28	280.60
11/11/02	10.46	267.75	9.50	267.38	10.73	267.58	34.60	280.49	20.95	278.63	25.17	280.32	22.90	279.97	33.38	286.91	23.40	318.23	19.40	280.48
05/13/03	10.45	267.76	9.17	267.71	10.51	267.80	30.50	284.59	18.63	280.95	22.29	283.20	19.94	282.93	27.00	293.29	16.70	324.93	16.96	282.92
12/01/03	10.74	267.47	9.48	267.40	10.92	267.39	31.23	283.86	18.90	280.68	22.90	282.59	20.55	282.32	28.53	291.76	18.17	323.46	16.83	283.05
04/14/04	10.39	267.82	9.23	267.65	10.55	267.76	30.60	284.49	18.60	280.98	22.47	283.02	19.99	282.88	27.39	292.90	17.45	324.18	16.70	283.18
11/15/04	10.99	267.22	9.77	267.11	11.21	267.10	31.12	283.97	18.85	280.73	22.72	282.77	20.32	282.55	28.10	292.19	17.98	323.65	16.78	283.10
05/09/05	10.64	267.57	9.56	267.32	10.71	267.60	30.24	284.85	18.32	281.26	22.10	283.39	19.67	283.20	26.60	293.69	17.20	324.43	16.28	283.60
11/08/05	11.18	267.03	10.32	266.56	11.56	266.75	33.95	281.14	20.40	279.18	23.20	282.29	22.62	280.25	31.75	288.54	21.73	319.90	18.41	281.47
04/24/06	11.27	266.94	10.12	266.76	11.45	266.86	33.65	281.44	20.54	279.04	24.86	280.63	22.37	280.50	31.29	289.00	20.03	321.60	18.51	281.37
10/16/06	11.15	267.06	10.08	266.80	11.74	266.57	34.23	280.86	20.59	278.99	25.10	280.39	22.56	280.31	31.69	288.60	21.34	320.29	18.82	281.06
04/30/07	11.08	267.13	9.83	267.05	11.16	267.15	31.03	284.06	18.75	280.83	22.16	283.33	20.31	282.56	27.83	292.46	18.15	323.48	16.99	282.89
11/29/07	10.55	267.66	9.85	267.03	10.83	267.48	31.92	283.17	20.42	279.16	24.69	280.80	22.20	280.67	32.24	288.05	24.55	317.08	18.75	281.13
05/20/08	10.20	268.01	9.39	267.49	10.46	267.85	29.69	285.40	18.50	281.08	22.50	282.99	**	**	30.14	290.15	21.44	320.19	16.96	282.92
11/05/08	10.32	267.89	9.67	267.21	10.73	267.58	30.65	284.44	19.43	280.15	23.49	282.00	21.00	281.87	31.09	289.20	24.03	317.60	17.68	282.20
05/04/09	10.17	268.04	9.49	267.39	10.62	267.69	28.39	286.70	17.71	281.87	21.46	284.03	19.06	283.81	28.18	292.11	19.41	322.22	16.00	283.88
11/16/09	10.04	268.17	9.34	267.54	10.42	267.89	29.36	285.73	17.99	281.59	22.08	283.41	19.61	283.26	29.72	290.57	22.10	319.53	16.20	283.68
05/05/10	10.20	268.01	9.35	267.53	10.74	267.57	26.52	288.57	16.48	283.10	19.95	285.54	17.62	285.25	25.73	294.56	18.51	323.12	14.60	285.28
11/04/10	10.22	267.99	9.43	267.45	10.56	267.75	28.44	286.65	17.54	282.04	21.42	284.07	19.03	283.84	28.46	291.83	21.46	320.17	15.49	284.39
05/03/11	10.31	267.90	9.50	267.38	10.62	267.69	28.92	286.17	18.00	281.58	21.82	283.67	19.41	283.46	29.07	291.22	21.64	319.99	16.07	283.81
11/02/11	10.49	267.72	9.76	267.12	10.88	267.43	30.21	284.88	19.03	280.55	23.05	282.44	19.97	282.90	30.55	289.74	24.71	316.92	17.05	282.83
05/02/12	10.84	267.37	9.63	267.25	10.70	267.61	29.62	285.47	18.61	280.97	22.49	283.00	20.07	282.80	33.31	286.98	23.66	317.97	16.76	283.12
05/22/13	10.41	267.80	9.63	267.25	10.70	267.61	29.06	286.03	18.19	281.39	22.02	283.47	19.58	283.29	29.33	290.96	22.16	319.47	16.44	283.44
05/30/14	10.34	267.87	9.38	267.50	10.55	267.76	26.76	288.33	16.36	283.22	20.06	285.43	17.58	285.29	26.15	294.14	NM	--	14.50	285.38

Notes: Water level data from 1984 through 2001 are available in previous Semi-Annual Groundwater Monitoring Reports.
TOC = Top of casing
ft msl = feet above mean sea level
NM = Not Measured
GW Elev. = groundwater elevation; ft msl = feet above mean sea level
Blank spaces = data not available
** = obstructed or dry at 6.20' below the top of the casing.

TABLE 3
HISTORICAL AND CURRENT GROUNDWATER ELEVATIONS
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTONS-IES PROJECT NO. 2014.0025.SCHN

Measuring Point Elevation (ft msl)	OW-10		OW-20		OW-30		OW-40		RW-1		SW-1		SW-2	
	TOC	293.32	TOC	293.75	TOC	293.10	TOC	292.94	TOC	274.65	TOC	328.37	TOC	323.62
Date	**Depth to Water** (ft)	**GW Elev** (ft msl)	**Depth to Water** (ft)	**GW Elev** (ft msl)	**Depth to Water** (ft)	**GW Elev** (ft msl)	**Depth to Water** (ft)	**GW Elev** (ft msl)	**Depth to Water** (ft)	**GW Elev** (ft msl)	**Depth to Water** (ft)	**GW Elev** (ft msl)	**Depth to Water** (ft)	**GW Elev** (ft msl)
05/06/02	25.82	267.50	25.38	268.37	24.09	269.01	24.42	268.52	8.76	265.89	41.46	286.91	17.31	306.31
11/11/02	24.93	268.39	24.45	269.30	22.90	270.20	23.24	269.70	8.85	265.80	36.20	292.17	19.60	304.02
05/13/03	23.25	270.07	22.81	270.94	21.45	271.65	21.78	271.16	8.83	265.82	25.70	303.00	10.87	312.75
12/01/03	24.99	268.33	24.53	269.19	23.07	270.03	23.55	269.39	9.02	265.63	12.50	315.87	10.32	313.30
04/14/04	24.70	268.62	24.27	269.48	22.90	270.20	23.23	269.71	8.68	265.97	7.99	320.38	7.83	315.79
11/15/04	24.91	268.41	24.47	269.28	23.14	269.96	23.49	269.45	9.09	265.56	10.75	317.62	10.43	313.19
05/09/05	24.38	268.94	23.95	269.80	22.40	270.70	22.88	270.06	8.94	265.71	9.73	318.64	7.09	316.53
11/08/05	26.23	267.09	25.83	267.92	24.34	268.76	24.85	268.09	9.43	265.22	78.20	250.17	20.60	303.02
04/24/06	25.77	267.55	25.42	268.33	23.97	269.13	24.38	268.56	9.41	265.24	27.90	300.47	11.84	311.78
10/16/06	26.02	267.30	25.32	268.43	24.28	268.82	24.62	268.32	9.27	265.38	20.24	308.13	55.90	267.72
04/30/07	24.94	268.38	24.06	269.69	22.64	270.46	23.18	269.76	9.22	265.43	13.92	314.45	8.68	314.94
11/29/07	26.73	266.59	26.34	267.41	24.98	268.12	25.33	267.61	8.78	265.87	NM	NM	NM	NM
05/20/08	24.80	268.52	24.40	269.35	22.89	270.21	23.23	269.71	8.46	266.19	NM	NM	NM	NM
11/05/08	26.04	267.28	25.65	268.10	24.22	268.88	24.56	268.38	8.55	266.10	NM	NM	NM	NM
05/04/09	24.42	268.90	23.99	269.76	22.57	270.53	22.93	270.01	8.44	266.21	NM	NM	NM	NM
11/16/09	25.51	267.81	24.97	268.78	23.32	269.78	23.71	269.23	8.23	266.42	NM	NM	NM	NM
05/05/10	24.04	269.28	23.64	270.11	22.13	270.97	22.47	270.47	8.40	266.25	NM	NM	NM	NM
11/04/10	25.15	268.17	24.75	269.00	23.30	269.80	23.66	269.28	8.40	266.25	NM	NM	NM	NM
05/03/11	25.19	268.13	24.81	268.94	23.39	269.71	23.73	269.21	8.51	266.14	NM	NM	NM	NM
11/02/11	25.93	267.39	25.55	268.20	24.13	268.97	24.48	268.46	9.61	265.04	NM	NM	NM	NM
05/02/12	25.48	267.84	25.05	268.70	23.66	269.44	24.02	268.92	8.84	265.81	NM	NM	NM	NM
05/22/13	25.32	268.00	24.96	268.79	25.55	267.55	25.87	267.07	8.60	266.05	NM	NM	NM	NM
05/30/14	23.83	269.49	22.14	271.61	21.84	271.26	21.19	271.75	8.53	266.12	NM	NM	NM	NM

Notes: Water level data from 1984 through 2001 are available in previous Semi-Annual Groundwater Monitoring Reports.
TOC = Top of casing
ft msl = feet above mean sea level
NM = Not Measured
GW Elev. = groundwater elevation
Blank spaces = data not available

TABLE 4
HISTORICAL AND CURRENT WATER QUALITY PARAMETERS
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTIONS-IES PROJECT NO. 2014.0025.SCHN

Sample Identification	Sample Date	Conductivity (µS/cm)	pH (SU)	Temperature (°C)	Dissolved Oxygen (mg/L)	Turbidity	Oxidation-Reduction Potential (mV)
MW-1	11/92	231	5.90	17.6	NR		NR
	2/93	221	5.82	16.5	NR		NR
	5/93	206	5.60	19.4	NR		NR
	8/93	199	5.49	19.0	NR		NR
	11/93	266	6.12	17.0	NR		NR
	3/94	212	5.88	15.0	NR		NR
	5/94	200	5.34	16.5	NR		NR
	8/94	210	5.62	18.3	NR		NR
	11/94	240	5.50	14.0	NR		NR
	2/95	230	7.60	16.1	NR		NR
	5/95	190	4.90	17.1	NR		NR
	8/95	180	6.50	17.8	NR		NR
	11/95	170	6.10	17.6	NR		NR
	2/96	260	5.90	15.6	NR		NR
	5/96	208	5.44	17.9	NR		NR
	8/96	140	5.50	20.0	NR		NR
	11/96	190	5.30	16.0	NR		NR
	2/97	180	5.60	15.1	NR		NR
	5/97	170	5.80	18.0	NR		NR
	8/97	170	5.60	19.3	NR		NR
	11/97	200	4.70	15.3	NR		NR
	2/98	160	5.80	17.1	NR		NR
	5/98	140	5.30	16.6	NR		NR
	8/98	200	5.70	19.9	NR		NR
	10/98	200	5.50	18.0	NR		NR
	5/99	197	5.17	19.1	3.17		462
	11/99	228	5.40	17.3	5.56		202
	5/00	219	5.22	17.9	5.30		200
	11/00	266	5.34	15.1	5.70		316
	5/01	223	5.32	17.3	4.59		296
	11/01	253	5.32	16.9	3.4		247
	5/02	260	5.29	18.0	6.5		293
	11/02	290	5.18	17.3	4.6		317
	5/03	290	5.31	17.5	1.9		374
	12/03	340	5.22	16.7	2.40		384
	4/04	315	5.35	16.2	4.2		413
	11/04	275	5.40	16.5	6.1		271
	5/05	310	5.46	17.2	1.4		324
	11/05	306	5.35	18.4	3.9		324
	4/06	297	5.53	17.5	9.24		341
	10/06	248	5.48	18.2	3.17		337
	4/07	272	5.66	18.9	8.45		233
MW-3 (Bedrock)	11/07	122	5.98	15.3	4.60		252
	5/08	112	6.67	19.2	4.20	0.3	28.1
	11/08	101	4.80	17.1	2.39		29.2
	5/09	106	5.91	19.1	3.41		43.1
	11/09	117	5.97	17.5	2.45		99.4
	5/10	104	5.01	16.5	0.94		77.3
	11/10	106	8.72	15.6	1.28		-254.1
	5/11	119	5.35	16.2	1.08		75.6
	11/11	124	5.91	12.1	1.05		258.4
	5/12	126	5.75	18.5	2.79		193.9
	5/13	135	5.85	18.5	2.01	0.7	49.4
	5/14	198	5.71	17.1	0.80	0.5	-35.8
MW-5 (Shallow)	11/07	386	5.56	15.7	2.10		278
	5/08	312	6.38	18.3	3.58	0.2	30.9
	11/08	284	4.30	17.4	1.38		58.9
	5/09	266	5.60	19.2	4.48		129.9
	11/09	292	5.68	18.9	2.80		259.6
	5/10	274	5.04	17.1	1.55		129.4
	11/10	290	5.59	16.4	1.92		-99.9
	5/11	291	5.11	16.0	2.15		86.5
	11/11	264	5.33	12.7	2.09		273.6
	5/12	232	5.54	18.5	2.21		243.1
	5/13	223	5.70	19.0	1.95	0.6	60.6
	5/14	288	5.62	17.0	0.78	0.4	4.4

TABLE 4
HISTORICAL AND CURRENT WATER QUALITY PARAMETERS
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTIONS-IES PROJECT NO. 2014.0025.SCHN

Sample Identification	Sample Date	Conductivity (µS/cm)	pH (SU)	Temperature (°C)	Dissolved Oxygen (mg/L)	Turbidity	Oxidation-Reduction Potential (mV)
	11/92	198	4.60	18.8	NR		NR
	2/93	230	6.12	14.1	NR		NR
	5/93	275	5.49	15.4	NR		NR
	8/93	193	5.79	19.4	NR		NR
	11/93	215	5.47	18.8	NR		NR
	3/94	196	6.12	12.1	NR		NR
	5/94	200	5.99	15.1	NR		NR
	8/94	224	5.87	18.6	NR		NR
	11/94	333	5.65	15.6	NR		NR
	2/95	210	6.60	14.4	NR		NR
	5/95	140	6.50	15.5	NR		NR
	8/95	171	5.60	20.0	NR		NR
	11/95	160	5.70	20.0	NR		NR
	2/96	310	6.00	12.9	NR		NR
	5/96	198	5.62	16.0	NR		NR
	8/96	130	5.80	21.0	NR		NR
	11/96	160	5.80	17.0	NR		NR
	2/97	170	5.60	13.2	NR		NR
	5/97	170	5.60	16.1	NR		NR
	8/97	180	5.80	20.2	NR		NR
	11/97	240	5.70	17.7	NR		NR
	2/98	180	6.00	15.2	NR		NR
	5/98	150	5.80	15.8	NR		NR
	8/98	200	5.90	20.5	NR		NR
	10/98	180	5.90	20.8	NR		NR
	5/99	180	5.68	17.9	1.66		345
MW-11	11/99	202	5.72	19.2	1.54		230
(Shallow)	5/00	199	5.70	15.5	2.70		138
	11/00	223	5.86	16.8	0.70		124
	5/01	199	5.9	16.2	1.3		111
	11/01	156	5.74	19.0	0.0		105
	5/02	190	5.73	16.3	5.60		150
	11/02	210	5.66	19.7	0.70		136
	5/03	190	5.6	14.8	3.10		249
	12/03	200	5.68	18.3	1.40		304
	4/04	202	6.09	14.7	0.40		273
	11/04	182	5.79	19.0	4.60		179
	5/05	217	5.78	14.2	10.60		199
	11/05	211	5.79	21.0	2.30		141
	4/06	204	5.77	15.3	1.39		225
	10/06	215	5.90	19.3	3.64		167
	4/07	206	5.97	14.8	4.40		301
	11/07	246	5.97	18.1	2.70		95
	5/08	223	6.64	18.0	2.60	6.4	44.8
	11/08	206	5.60	19.3	1.38		-41.6
	5/09	216	5.79	15.7	3.81		182.1
	11/09	188	5.59	18.2	2.51		123.4
	5/10	246	5.12	14.6	0.81		147.2
	11/10	251	5.81	19.0	1.61		-9.3
	5/11	263	5.33	13.0	1.96		107.0
	11/11	285	5.61	15.7	2.00		225.9
	5/12	249	5.72	16.0	1.06		181.1
	5/13	208	5.71	15.3	1.19	3.1	32.1
	5/14	239	5.63	15.0	1.02	3.2	-5.3
	11/92	178	4.74	18.9	NR		NR
	2/93	219	6.68	12.7	NR		NR
	5/93	268	5.93	16.1	NR		NR
	8/93	192	6.11	21.4	NR		NR
	11/93	258	5.53	19.1	NR		NR
	3/94	209	6.27	10.2	NR		NR
	5/94	290	6.40	15.0	NR		NR
	8/94	286	6.04	20.4	NR		NR
	11/94	254	5.96	15.3	NR		NR
	2/95	290	6.40	11.1	NR		NR
	5/95	210	6.80	16.0	NR		NR
	8/95	230	7.30	19.1	NR		NR
	11/95	230	6.20	19.8	NR		NR
	2/96	270	6.20	11.4	NR		NR
	5/96	200	5.54	14.8	NR		NR
	8/96	160	5.90		NR		NR
	11/96	180	5.90	19.0	NR		NR
	2/97	180	5.80	12.1	NR		NR
	5/97	NR	5.70	16.9	NR		NR
	8/97	210	5.80	22.1	NR		NR
	11/97	270	6.00	17.0	NR		NR
	2/98	190	6.50	13.3	NR		NR
	5/98	180	5.80	16.6	NR		NR
	8/98	240	6.20	20.2	NR		NR
	10/98	250	6.10	20.2	NR		NR
	6/99	207	5.95	17.8	2.02		351
MW-12	11/99	256	5.87	19.7	3.40		255
(Shallow)	5/00	217	5.79	15.2	5.80		182
	11/00	293	6.02	17.7	2.90		283
	5/01	266	5.94	15.9	2.72		193
	11/01	257	6.15	19.4	0.80		163
	5/02	240	5.93	16.4	2.80		203
	11/02	210	5.71	19.8	0.60		250
	5/03	240	5.75	15.3	2.80		358
	12/03	240	5.51	18.0	1.40		360
	4/04	216	5.95	13.9	1.00		336
	11/04	193	5.76	19.8	8.20		244
	5/05	222	5.77	14.1	8.10		251
	11/05	214	5.88	20.6	2.30		471
	4/06	227	5.77	15.1	1.58		486
	10/06	232	6.08	21.7	2.44		135
	4/07	285	6.05	14.6	0.77		319
	11/07	325	5.75	17.5	2.50		198
	5/08	338	6.85	18.3	2.80	2.6	18.6
	11/08	283	5.43	19.8	0.40		-46.3
	5/09	309	5.46	15.8	1.01		300.9
	11/09	187	5.36	18.9	1.97		126.9
	5/10	308	4.76	16.5	1.08		208.6
	11/10	301	5.44	19.4	0.99		-11.7
	5/11	362	5.14	15.0	1.70		45.2
	11/11	331	5.39	16.3	1.42		234
	5/12	298	5.51	18.0	0.97		265
	5/13	295	5.61	17.2	0.90	0.6	166
	5/14	281	5.53	17.1	0.95	3.6	-6.8

TABLE 4
HISTORICAL AND CURRENT WATER QUALITY PARAMETERS
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTIONS-IES PROJECT NO. 2014.0025.SCHN

Sample Identification	Sample Date	Conductivity (µS/cm)	pH (SU)	Temperature (°C)	Dissolved Oxygen (mg/L)	Turbidity	Oxidation-Reduction Potential (mV)
MW-17 (Deep)	11/92	238	6.65	15.4	NR		NR
	2/93	353	6.64	16.1	NR		NR
	5/93	384	6.38	18.5	NR		NR
	8/93	258	6.42	17.7	NR		NR
	11/93	NR	6.52	15.5	NR		NR
	3/94	271	6.96	14.7	NR		NR
	5/94	330	7.30	16.1	NR		NR
	8/94	275	6.70	17.2	NR		NR
	11/94	274	6.50	13.6	NR		NR
	2/95	330	6.70	15.0	NR		NR
	5/95	200	8.60	16.6	NR		NR
	8/95	210	7.80	17.8	NR		NR
	11/95	190	7.10	16.8	NR		NR
	2/96	300	7.60	15.2	NR		NR
	5/96	210	6.11	14.9	NR		NR
	8/96	150	6.90	19.0	NR		NR
	11/96	240	7.60	16.0	NR		NR
	2/97	220	7.00	15.9	NR		NR
	5/97	190	6.50	17.3	NR		NR
	8/97	170	7.40	18.3	NR		NR
	11/97	240	7.30	15.6	NR		NR
	2/98	220	7.80	17.2	NR		NR
	5/98	190	6.30	16.4	NR		NR
	8/98	240	7.00	18.0	NR		NR
	10/98	290	7.20	15.7	NR		NR
	6/99	205	6.81	18.3	2.86		285
	11/99	248	6.69	17.2	5.16		226
	5/00	242	6.55	17.4	4.10		156
	11/00	276	6.71	15.8	3.30		268
	5/01	233	6.68	16.6	2.18		167
	11/01	231	6.68	17.1	0.00		125
	5/02	230	6.53	16.7	5.70		174
	11/02	240	6.41	16.5	2.60		280
	5/03	230	6.34	17.5	3.00		362
	12/03	250	6.37	16.5	2.40		331
	4/04	234	6.75	16.8	2.50		348
	11/04	214	6.60	17.1	7.18		208
	5/05	249	6.58	16.6	4.20		210
	11/05	237	6.67	17.7	3.10		361
	4/06	237	6.63	17.1	2.67		451
	10/06	214	6.93	19.3	3.43		209
	4/07	236	6.44	16.8	1.36		210
	11/07	249	7.38	15.7	3.40		149
	5/08	242	7.32	17.9	4.21	0.6	6.4
	11/08	238	6.75	18.6	1.18		-55.4
	5/09	251	6.57	16.6	1.86		294.8
	11/09	189	6.41	17.9	1.68		123.9
	5/10	245	5.77	17.4	0.80		201.2
	11/10	257	6.62	17.2	0.95		-88.8
	5/11	265	6.18	15.8	1.81		71.7
	11/11	258	6.68	13.8	1.79		235
	5/12	251	6.59	18.1	1.54		168
	5/13	250	6.60	18.5	0.68	0.2	21
	5/14	243	6.60	16.8	0.76	3.6	-33
MW-19 (Deep)	11/92	221	7.09	15.2	NR		NR
	2/93	264	7.37	15.6	NR		NR
	5/93	323	6.70	17.7	NR		NR
	8/93	232	6.71	17.7	NR		NR
	11/93	258	6.42	14.9	NR		NR
	3/94	265	7.39	14.4	NR		NR
	5/94	270	7.10	17.3	NR		NR
	8/94	274	7.06	16.0	NR		NR
	11/94	268	6.98	13.6	NR		NR
	2/95	300	7.00	15.5	NR		NR
	5/95	170	7.60	17.6	NR		NR
	8/95	200	7.10	19.3	NR		NR
	11/95	220	7.40	17.1	NR		NR
	2/96	310	7.50	15.7	NR		NR
	5/96	240	6.90	15.2	NR		NR
	8/96	180	7.60	21.0	NR		NR
	11/96	230	8.00	15.0	NR		NR
	2/97	250	7.10	16.2	NR		NR
	5/97	210	6.80	17.4	NR		NR
	8/97	220	7.20	18.9	NR		NR
	11/97	280	7.50	15.4	NR		NR
	2/98	230	7.10	16.4	NR		NR
	5/98	240	6.70	16.1	NR		NR
	8/98	310	7.70	19.0	NR		NR
	10/98	300	7.10	16.2	NR		NR
	5/99	237	6.98	17.7	2.80		278
	11/99	264	7.15	16.5	4.00		200
	5/00	263	7.06	17.2	4.20		164
	11/00	291	7.16	16.1	2.70		222
	5/01	263	7.17	18.1	2.32		114
	11/01	258	7.23	18.0	0.59		66
	5/02	260	7.87	16.9	6.50		172
	11/02	280	7.80	17.1	7.00		287
	5/03	280	6.94	16.7	3.30		316
	12/03	270	7.64	16.1	6.00		277
	4/04	278	7.67	16.8	2.80		304
	11/04	271	7.20	16.5	6.80		174
	5/05	331	7.19	16.5	8.00		162
	11/05	323	7.16	19.2	3.20		235
	4/06	295	7.11	17.1	5.07		366
	10/06	315	7.22	16.9	4.09		252
	4/07	327	7.12	16.8	4.17		198
	11/07	287	7.25	14.1	3.40		184
	5/08	275	7.54	16.5	4.61	18.4	4.9
	11/08	250	6.99	18.0	4.34		-54.6
	5/09	341	7.19	17.4	1.61		141.5
	11/09	281	7.29	18.2	4.24		260.0
	5/10	336	6.92	16.7	1.75		121.2
	11/10	379	7.30	17.0	1.17		-10.7
	5/11	341	6.92	14.8	1.69		65.3
	11/11	371	7.37	14.1	1.33		249.2
	5/12	354	7.31	17.2	1.52		165.4
	5/13	346	7.37	16.8	1.01	7.9	-77.7
	5/14	363	7.16	16.4	0.98	3.0	-24.9

TABLE 4
HISTORICAL AND CURRENT WATER QUALITY PARAMETERS
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTIONS-IES PROJECT NO. 2014.0025.SCHN

Sample Identification	Sample Date	Conductivity (µS/cm)	pH (SU)	Temperature (°C)	Dissolved Oxygen (mg/L)	Turbidity	Oxidation-Reduction Potential (mV)
MW-20 (Bedrock)	11/92	212	7.33	17.5	NR		NR
	2/93	262	7.14	14.6	NR		NR
	5/93	315	7.08	16.7	NR		NR
	8/93	225	6.93	18.4	NR		NR
	11/93	285	7.55	17.4	NR		NR
	3/94	235	8.30	14.1	NR		NR
	5/94	280	8.20	16.7	NR		NR
	8/94	255	8.28	16.3	NR		NR
	11/94	286	8.20	13.5	NR		NR
	2/95	320	6.50	15.0	NR		NR
	5/95	180	8.80	17.1	NR		NR
	8/95	211	8.40	17.8	NR		NR
	11/95	200	7.70	18.6	NR		NR
	2/96	260	8.30	15.7	NR		NR
	5/96	230	7.83	16.3	NR		NR
	8/96	140	7.90	19.0	NR		NR
	11/96	210	8.10	15.0	NR		NR
	2/97	220	7.80	16.1	NR		NR
	5/97	180	7.60	17.6	NR		NR
	8/97	210	8.60	17.8	NR		NR
	11/97	170	7.30	13.0	NR		NR
	2/98	200	8.10	15.7	NR		NR
	5/98	150	7.40	18.6	NR		NR
	8/98	200	8.00	18.5	NR		NR
	10/98	210	8.00	18.0	NR		NR
	6/99	186	8.35	19.5	4.74		234
	11/99	229	7.99	16.9	5.86		183
	5/00	239	8.76	21.8	4.20		105
	11/00	254	8.77	15.6	6.80		232
	5/01	NR	NR	NR	NR		NR
	11/01	NR	NR	NR	NR		NR
	5/02	NR	NR	NR	NR		NR
	11/02	NR	NR	NR	NR		NR
	5/03	NR	NR	NR	NR		NR
	12/03	230	8.11	16.0	5.60		264
	4/04	225	8.59	18.9	7.20		253
	11/04	213	8.34	17.6	9.50		178
	5/05	245	8.39	17.8	10.50		144
	11/05	234	8.19	18.0	4.90		299
	4/06	239	8.36	17.9	7.78		330
	10/06	211	8.34	20.1	3.13		215
	4/07	239	8.66	17.3	3.92		174
	11/07	NS	NS	NS	NS		NS
	5/08	226	8.29	18.1	6.80	5.3	-12.6
	11/08	211	8.33	18.3	4.41		-46.1
	5/09	247	8.77	16.3	3.31		286.3
	11/09	189	8.73	17.5	2.16		117.8
	5/10	252	8.24	17.3	0.81		150.4
	11/10	267	8.96	17.3	1.12		-94.6
	5/11	301	8.16	15.9	1.01		53.4
	11/11	262	9.12	13.9	1.03		236
	5/12	300	8.55	19.1	1.04		172
	5/13	302	8.85	17.7	0.79	1.0	-102
	5/14	331	8.43	16.5	0.91	2.3	-8
MW-21 (Bedrock)	11/92	212	6.42	17.0	NR		NR
	2/93	294	6.65	15.4	NR		NR
	5/93	361	7.65	15.9	NR		NR
	8/93	241	7.47	17.8	NR		NR
	11/93	338	6.45	18.3	NR		NR
	3/94	278	7.39	14.4	NR		NR
	5/94	290	8.03	NR	NR		NR
	8/94	280	6.96	18.2	NR		NR
	11/94	262	7.35	13.4	NR		NR
	2/95	320	7.50	16.7	NR		NR
	5/95	180	7.60	17.6	NR		NR
	8/95	230	7.90	17.6	NR		NR
	11/95	220	8.10	17.6	NR		NR
	2/96	350	8.40	15.4	NR		NR
	5/96	250	7.58	19.9	NR		NR
	8/96	200	8.80	20.0	NR		NR
	11/96	250	8.20	15.0	NR		NR
	2/97	250	7.60	16.6	NR		NR
	5/97	260	8.00	16.9	NR		NR
	8/97	240	7.30	19.3	NR		NR
	11/97	290	7.40	14.6	NR		NR
	2/98	280	6.90	15.8	NR		NR
	5/98	180	6.80	16.8	NR		NR
	8/98	270	7.50	18.7	NR		NR
	10/98	300	7.70	18.0	NR		NR
	5/99	262	7.65	18.8	3.62		264
	11/99	291	7.67	17.0	4.16		198
	5/00	292	7.67	17.5	6.70		127
	11/00	305	7.70	13.3	7.50		195
	5/01	295	7.59	18.2	3.56		101
	11/01	291	6.60	16.7	1.80		60
	5/02	290	7.59	16.7	6.00		167
	11/02	310	8.19	16.6	6.00		280
	5/03	310	7.36	16.8	5.50		365
	12/03	300	7.57	15.8	5.30		268
	4/04	315	7.55	18.0	5.70		310
	11/04	288	8.39	16.7	7.10		191
	5/05	316	7.65	16.9	8.70		168
	11/05	320	7.86	16.8	2.00		250
	4/06	312	7.98	17.8	3.80		307
	10/06	299	7.57	17.2	4.31		248
	4/07	310	7.77	17.5	3.03		205
	11/07	317	7.81	13.9	5.90		159
	5/08	294	7.37	19.9	4.50	5.4	-8.9
	11/08	264	7.78	17.9	2.41		-65.9
	5/09	289	7.48	17.8	3.94		127.9
	11/09	232	7.64	18.4	3.25		196.0
	5/10	307	7.78	16.7	1.75		115.7
	11/10	325	8.47	16.7	1.17		-78.4
	5/11	340	7.82	16.3	2.75		63.1
	11/11	327	8.21	13.1	1.83		257.6
	5/12	324	8.62	17.9	1.56		193.4
	5/13	322	8.62	17.3	0.98	1.3	-101.6
	5/14	341	8.45	16.6	1.51	6.1	-49.8

TABLE 4
HISTORICAL AND CURRENT WATER QUALITY PARAMETERS
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTIONS-IES PROJECT NO. 2014.0025.SCHN

Sample Identification	Sample Date	Conductivity (µS/cm)	pH (SU)	Temperature (°C)	Dissolved Oxygen (mg/L)	Turbidity	Oxidation-Reduction Potential (mV)
SG-1 (Surface Water)	5/08	79	6.87	19.2	NR	NR	NR
	11/08	82	5.87	14.9	NR	NR	NR
	5/09	88	6.38	21.2	NR	NR	NR
	11/09	70	6.40	13.7	NR	NR	NR
	5/10	198	6.18	18.5	NR	NR	NR
	11/10	89	5.97	13.0	NR	NR	NR
	5/11	90	5.37	20.3	NR	NR	NR
	11/11	82	5.40	4.52	NR	NR	NR
	5/12	79	6.29	21.5	NR	NR	NR
	5/13	77	6.45	21.4	NR	NR	NR
	5/14	146	6.31	20.0	NR	NR	NR
SG-2 (Surface Water)	5/08	65	6.40	19.4	NR	NR	NR
	5/09	NS	NS	NS	NR	NR	NR
	11/09	NS	NS	NS	NR	NR	NR
	5/10	NS	NS	NS	NR	NR	NR
	11/10	NS	NS	NS	NR	NR	NR
	5/11	NS	NS	NS	NR	NR	NR
	11/11	NS	NS	NS	NR	NR	NR
	5/12	NS	NS	NS	NR	NR	NR
	5/13	74	7	22.7	NR	NR	NR
	5/14	NS	NS	NS	NR	NR	NR
P-2 (Surface Water)	5/08	73	6.63	19.3	NR	NR	NR
	11/08	79	6.11	14.9	NR	NR	NR
	5/09	193	6.32	21.8	NR	NR	NR
	11/09	80	7.10	13.3	NR	NR	NR
	5/10	86	6.04	18.9	NR	NR	NR
	11/10	156	5.95	13.4	NR	NR	NR
	5/11	90	5.54	20.4	NR	NR	NR
	11/11	111	5.60	4.9	NR	NR	NR
	5/12	81	6.47	21.5	NR	NR	NR
	5/13	91	6.52	22.1	NR	NR	NR
	5/14	144	6.24	19.4	NR	NR	NR

Field parameter data from 1992 through 2001 are available in previous Semi-Annual Groundwater Monitoring Reports.
SU - Standard Units
µS/cm - MicroSiemens per centimeter
°C = degrees Celsius
mg/L = milligrams per liter
mV = millivolts
NR = Not Recorded
NS = Not Sampled

Table 5

HISTORICAL AND CURRENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN SURFACE WATER AND GROUNDWATER
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTIONS-IES PROJECT NO. 2014.0025.SCHN

Sample ID	Sample Date	1,1-DCA (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	PCE (µg/L)	*cis*-1,2-DCE (µg/L)	TCFM (µg/L)	1,4-Dioxane (µg/L)
NC 2L GW Standard		**6 ***	**7**	**200**	**0.7**	**70**	**2000**	**3 ****
MW-3	8/84	<1.0	<1.0	4.0	NR			
	12/84	<10	<10	<10	NA			
	10/89	<5.0	<5.0	<5.0	<5.0			
	5/01	**22**	**17**	<1.0	**1.5**		<1.0	
	11/07	**15.3**	**11.6**	<1.0	**1.9**	<1.0	<1.0	NS
	5/08	**17.7**	**11.8**	<1.0	**1.6**	<1.0	<1.0	NS
	11/08	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/09	**15.6**	**8.8**	<1.0	**1.8**	<1.0	<1.0	NS
	11/09	**16.9**	**8.6**	<1.0	<1.0	<1.0	<1.0	NS
	5/10	**15.4**	**8.1**	<1.0	**1.0**	<5.0	<1.0	NS
	11/10	**2.5**	**1.1**	<1.0	<1.0	<1.0	<1.0	NS
	5/11	**16.4**	**8.8**	<1.0	<1.0	<1.0	<1.0	NS
	11/11	**16.6**	**8.9**	<1.0	**1.0**	<1.0	<1.0	NS
	5/12	**14.6**	**9.3**	<1.0	**1.1**	<1.0	**1.3**	NS
	5/13	**18.8**	**9.7**	<1.0	<1.0	<1.0	<1.0	NS
	5/14	**14.1**	**7.5** ok	<1.0	**1.1**	<1.0	<1.0	NS
MW-5	8/84	<1.0	<1.0	**7.0**	NR			
	12/84	**46**	<10	<10	NA			
	1/86	<0.07	**3.25**	<0.03	**4.78**	**10.7**		
	10/89	**14**	<5.0	<5.0	<5.0			
	11/99	**15**	**12**	<5.0	<5.0			
	5/00	**20**	**17**	<5.0	<5.0			
	11/00	**17**	**15**	<5.0	<5.0			
	5/01	**18**	**15**	<1.0	<1.0		<1.0	
	11/07	**8.9**	**7.4**	<1.0	**1.1**	<1.0	<1.0	NS
	5/08	**9.7**	**6.3**	<1.0	<1.0	<1.0	<1.0	NS
	11/08	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/09	**11.1**	**7.7**	<1.0	**1.6**	<1.0	<1.0	NS
	11/09	**9.5**	**6.0**	<1.0	<1.0	<1.0	<1.0	NS
	5/10	**8.5**	**6.0**	<1.0	<1.0	<5.0	<1.0	NS
	11/10	**6.8**	**4.3**	<1.0	<1.0	<1.0	<1.0	NS
	5/11	**8.4**	**5.6**	<1.0	<1.0	<1.0	<1.0	NS
	11/11	**9.9**	**7.2**	<1.0	<1.0	<1.0	<1.0	NS
	5/12	**7.7**	**5.4**	<1.0	<1.0	<1.0	**1.2**	NS
	5/13	**7.2**	**4.8**	<1.0	<1.0	<1.0	<1.0	NS
	5/14	**5.1**	**3.2**	<1.0	<1.0	<1.0	<1.0	NS

—?

11 DCE = 350 ug/L
11 DCA = 6
PCE = 0.7
14 Dioxane = 3

TABLE 5
HISTORICAL AND CURRENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN SURFACE WATER AND GROUNDWATER
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTIONS-IES PROJECT NO. 2014.0025.SCHN

Sample ID	Sample Date	1,1-DCA (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	PCE (µg/L)	*cis*-1,2-DCE (µg/L)	TCFM (µg/L)	1,4-Dioxane (µg/L)
NC 2L GW Standard		6 *	7	200	0.7	70	2000	3 **
MW-11	11/92	< 5.0	< 5.0	< 5.0	< 5.0			
	2/93	< 5.0	< 5.0	< 5.0	< 5.0			
	5/93	< 5.0	< 5.0	< 5.0	< 5.0			
	8/93	< 5.0	< 5.0	< 5.0	< 5.0			
	11/93	< 5.0	< 5.0	< 5.0	< 5.0			
	3/94	< 5.0	< 5.0	< 5.0	< 5.0			
	5/94	< 5.0	< 5.0	< 5.0	< 5.0			
	8/94	< 5.0	**5.1**	< 5.0	< 5.0			
	11/94	< 5.0	< 5.0	< 5.0	< 5.0			
	2/95	< 5.0	< 5.0	< 5.0	< 5.0			
	5/95	< 5.0	**5.4**	< 5.0	< 5.0			
	8/95	< 5.0	< 5.0	< 5.0	< 5.0			
	11/95	< 5.0	< 5.0	< 5.0	< 5.0			
	2/96	< 5.0	**6.5**	< 5.0	< 5.0			
	5/96	< 5.0	**6.2**	< 5.0	< 5.0			
	8/96	< 5.0	**6.6**	< 5.0	< 5.0			
	11/96	< 5.0	**6.0**	< 5.0	< 5.0			
	2/97	< 5.0	**6.3**	< 5.0	< 5.0			
	5/97	**5.5**	**7.2**	NS	< 5.0			
	8/97	**6.0**	**7.0**	< 5.0	< 5.0			
	11/97	**9.0**	**10**	< 5.0	< 5.0			
	2/98	**8.0**	**8.0**	< 5.0	< 5.0			
	5/98	**8.0**	**10**	< 5.0	< 5.0			
	8/98	**11**	**13**	< 5.0	< 5.0			
	10/98	**17**	**24**	< 5.0	< 5.0			
	5/99	**8.8**	**9.7**	< 5.0	< 5.0			
	11/99	**11**	**12**	< 5.0	< 5.0			
	5/00	**9.2**	**11**	< 5.0	< 5.0			
	11/00	**9.2**	**9.6**	< 5.0	< 5.0			
	5/01	**8.1**	**8**	<1.0	<1.0		< 1.0	
	11/01	**10.0**	**10**	<1.0	<1.0		< 1.0	
	5/02	**8.3**	**7.9**	<1.0	<1.0		<1.0/<1.0	
	11/02	**4.8**	**4.2**	<1.0	<1.0			
	5/03	**5.7**	**4.9**	<1.0	<1.0	<1.0	<1.0	
	12/03	**6.8**	**6.4**	<1.0	<1.0	<1.0	<1.0	
	4/04	**7.1**	**7.0**	<1.0	<1.0	<1.0	<1.0	**4.5**
	11/04	**5.3/4.9**	**4.0/3.7**	<1.0/<1.0	<1.0/<1.0	<1.0/<1.0	<1.0/<1.0	**10**
	5/05	**9.9**	**7.5**	<1.0	<1.0	<1.0	<1.0	**7.6**
	11/05	**12**	**9.0**	<1.0	<1.0	<1.0	<1.0	**10**
	4/06	**10**	**7.4**	<1.0	<1.0	<1.0	<1.0	**9.2**
	10/06	**11**	**8.2**	<1.0	<1.0	<1.0	<1.0	**11**
	4/07	**10**	**6.1**	<1.0	<1.0	1.0	<1.0	**9.4**
	11/07	**7.0/5.6**	**4.5/3.6**	<1.0/<1.0	<1.0/<1.0	<1.0/<1.0	<1.0/<1.0	**10.4/10.2**
	5/08	**7.4**	**3.9**	<1.0	<1.0	<1.0	<1.0	**7.9**
	11/08	**4.8**	**3.2**	<1.0	<1.0	<1.0	<1.0	**9.0**
	5/09	**3.9**	**1.8**	<1.0	<1.0	<1.0	<1.0	**5.6**
	11/09	**5.2**	**2.9**	<1.0	<1.0	<1.0	<1.0	**6.11**
	5/10	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	**5.7**
	11/10	**4.2**	**1.4**	<1.0	<1.0	<1.0	<1.0	**7.4**
	5/11	**4.4**	**1.4**	<1.0	<1.0	<1.0	<1.0	**5.3**
	11/11	**6.5**	**2.0**	<1.0	<1.0	<1.0	<1.0	**6.4**
	5/12	**3.7**	**1.1**	<1.0	<1.0	<1.0	<1.0	**4.4**
	5/13	**2.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
	5/14	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0

TABLE 5
HISTORICAL AND CURRENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN SURFACE WATER AND GROUNDWATER
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTIONS-IES PROJECT NO. 2014.0025.SCHN

Sample ID	Sample Date	1,1-DCA (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	PCE (µg/L)	*cis*-1,2-DCE (µg/L)	TCFM (µg/L)	1,4-Dioxane (µg/L)
NC 2L GW Standard		6 *	7	200	0.7	70	2000	3 **
MW-12	11/92	11	190	< 5.0	< 5.0			
	2/93	12	200	< 5.0	< 5.0			
	5/93	14	200	< 5.0	< 5.0			
	8/93	13	200	< 5.0	< 5.0			
	11/93	15	140	< 5.0	< 5.0			
	3/94	8.0	55	< 5.0	< 5.0			
	5/94	9.4	79	< 5.0	< 5.0			
	8/94	10	73	< 5.0	< 5.0			
	11/94	10	100	< 5.0	< 5.0			
	2/95	10	29	< 5.0	< 5.0			
	5/95	8.5	86	< 5.0	< 5.0			
	8/95	8.9	83	< 5.0	< 5.0			
	11/95	6.6	58	< 5.0	< 5.0			
	2/96	< 5.0	25	< 5.0	< 5.0			
	5/96	11	39	< 5.0	< 5.0			
	8/96	15	44	< 5.0	< 5.0			
	11/96	12	25	< 5.0	< 5.0			
	2/97	8.7	18	< 5.0	< 5.0			
	5/97	16	41	< 5.0	< 5.0			
	8/97	18	47	< 5.0	< 5.0			
	11/97	14	25	< 5.0	< 5.0			
	2/98	12	26	< 5.0	< 5.0			
	5/98	16	23	< 5.0	< 5.0			
	8/98	20	48	< 5.0	< 5.0			
	10/98	28	65	< 5.0	< 5.0			
	6/99	17	39	< 5.0	< 5.0			
	11/99	16	26	< 5.0	< 5.0			
	5/00	18	16	< 5.0	< 5.0			
	11/00	19	23	< 5.0	< 5.0			
	5/01	17	19	<1.0	<1.0		< 1.0	
	11/01	22	32	<1.0	<1.0		< 1.0	
	5/02	17	20	<1.0	<1.0		< 1.0	
	11/02	9.5	7.6	<1.0	<1.0			
	5/03	17.0	16	<1.0	<1.0	<1.0	<1.0	
	12/03	13	14	<1.0	<1.0	<1.0	<1.0	
	4/04	12	15	<1.0	<1.0	<1.0	<1.0	7.5
	11/04	5.7	<1.0	<1.0	<1.0	<1.0	<1.0	8.4
	5/05	9.3	8.2	<1.0	<1.0	<1.0	<1.0	8.5
	11/05	17/12	18/12	<1.0/<1.0	1.2/<1.0	<1.0/<1.0	<1.0/<1.0	9.9
	4/06	11.0/10	7.6/7.0	<1.0/<1.0	<1.0/<1.0	<1.0/<1.0	<1.0/<1.0	8.2/9.1
	10/06	9.5/9.9	7.8/8.3	<1.0/<1.0	<1.0/<1.0	<1.0/<1.0	<1.0/<1.0	9.5/9.6
	4/07	9.7/8.9	7.0/6.6	<1.0/<1.0	<1.0/<1.0	<1.0/<1.0	<1.0/<1.0	8.0/8.1
	11/07	4.2	4.0	<1.0	<1.0	<1.0	<1.0	8.6
	5/08	5.89	4.78	<1.0	<1.0	<1.0	<1.0	8.7
	11/08	5.3	5.1	<1.0	<1.0	<1.0	1.0	8.7
	5/09	4.3	3.7	<1.0	1.6	<1.0	<1.0	8.1
	11/09	4.5	3.9	<1.0	<1.0	<1.0	1.5	<5.22
	5/10	<5.0	<5.0	<1.0	<1.0	<5.0	1.5	7.3
	11/10	2.9	2.4	<1.0	<1.0	<1.0	1.5	8.6
	5/11	3.0 / 3.1	2.7 / 2.7	<1.0	<1.0	<1.0	2.1 / 2.0	6.6 / 6.0
	11/11	2.0 / 2.1	2.1 / 2.0	<1.0	<1.0	<1.0	1.1 / 1.1	6.9 / 5.9
	5/12	2.1 / 2.2	2.4 / 2.4	<1.0	<1.0	<1.0	2.9 / 3.0	5.7 / 5.2
	5/13	1.9 / 1.9	2.1 / 2.0	<1.0	<1.0	<1.0	3.2 / 3.2	5.8 / 5.9
	5/14	1.4 / 1.5	1.5 / 1.5	<1.0	<1.0	<1.0	2.6 / 2.7	5.2 / 5.3

TABLE 5
HISTORICAL AND CURRENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN SURFACE WATER AND GROUNDWATER
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTIONS-IES PROJECT NO. 2014.0025.SCHN

Sample ID	Sample Date	1,1-DCA (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	PCE (µg/L)	*cis*-1,2-DCE (µg/L)	TCFM (µg/L)	1,4-Dioxane (µg/L)
NC 2L GW Standard		**6 ***	**7**	**200**	**0.7**	**70**	**2000**	**3 ****
MW-17	11/92	10	110	< 5.0	< 5.0			
	2/93	7	80	< 5.0	< 5.0			
	5/93	11	110	< 5.0	< 5.0			
	8/93	8	84	< 5.0	< 5.0		7	
	11/93	9	100	< 5.0	< 5.0			
	3/94	9	120	< 5.0	< 5.0			
	5/94	<10	110	<10	<10			
	8/94	8.3	120	< 5.0	< 5.0			
	11/94	8.1	110	< 5.0	< 5.0			
	2/95	7.6	92	< 5.0	< 5.0			
	5/95	< 5.0	97	< 5.0	< 5.0			
	8/95	6.4	93	< 5.0	< 5.0			
	11/95	5.2	71	< 5.0	< 5.0			
	2/96	5.4	66	< 5.0	< 5.0			
	5/96	6.8	88	< 5.0	< 5.0			
	8/96	6.8	72	< 5.0	< 5.0			
	11/96	5.0	55	< 5.0	0.9 (J)			
	2/97	7.6	67	< 5.0	0.9 (J)			
	5/97	6.5	49	< 5.0	< 5.0			
	8/97	6.0	19	< 5.0	< 5.0			
	11/97	6.0	17	< 5.0	< 5.0			
	2/98	< 5.0	5	< 5.0	< 5.0			
	5/98	10	51	< 5.0	< 5.0			
	8/98	11	46	< 5.0	< 5.0			
	10/98	14	50	< 5.0	< 5.0			
	6/99	13	66	< 5.0	< 5.0			
	11/99	11	40	< 5.0	< 5.0			
	5/00	14	47	< 5.0	< 5.0			
	11/00	16	54	< 5.0	< 5.0			
	5/01	16.0	50	<1.0	1		< 1.0	
	11/01	17.0	47	<1.0	<1.0		1.1	
	5/02	14.0	37	<1.0	<1.0		1.1	
	11/02	14.0	34	<1.0	<1.0			
	5/03	18.0	38	<1.0	<1.0	<1.0	<1.0	
	12/03	18	43	<1.0	1.2	<1.0	<1.0	
	4/04	18	41	<1.0	1.1	<1.0	<1.0	9.9
	11/04	12	25	<1.0	<1.0	<1.0	<1.0	14
	5/05	<1.0	33	<1.0	1.3	<1.0	2.0	13
	11/05	14	27	<1.0	<1.0	<1.0	<1.0	13
	4/06	18	33	<1.0	1.3	<1.0	<1.0	11
	10/06	16	27	<1.0	<1.0	<1.0	<1.0	13
	4/07	18	26	<1.0	1.1	<1.0	<1.0	13
	11/07	13.8	21.8	<1.0	1.2	<1.0	<1.0	12.1
	5/08	15.9	22.6	<1.0	1.2	<1.0	<1.0	11.6
	11/08	8.1	4.6	<1.0	<1.0	<1.0	<1.0	11.8
	5/09	11.5	14.7	<1.0	1.8	<1.0	<1.0	10.4
	11/09	10.3	18.0	<1.0	<1.0	<1.0	1.8	8.26
	5/10	11.2	13.2	<1.0	1.1	<5.0	<1.0	9.6
	11/10	10.1	10.5	<1.0	<1.0	<1.0	<1.0	11.6
	5/11	8.7	10.0	<1.0	<1.0	<1.0	<1.0	9.2
	11/11	8.9	11.4	<1.0	<1.0	<1.0	1.5	9.4
	5/12	6.6	8.5	<1.0	<1.0	<1.0	2.4	8.3
	5/13	8.2	8.6	<1.0	<1.0	<1.0	2.6	8.1
	5/14	4.5	4.8	<1.0	<1.0	<1.0	1.8	7.6

TABLE 5
HISTORICAL AND CURRENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN SURFACE WATER AND GROUNDWATER
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTIONS-IES PROJECT NO. 2014.0025.SCHN

Sample ID	Sample Date	1,1-DCA (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	PCE (µg/L)	*cis*-1,2-DCE (µg/L)	TCFM (µg/L)	1,4-Dioxane (µg/L)
NC 2L GW Standard		**6 ***	**7**	**200**	**0.7**	**70**	**2000**	**3 ****
MW-19	11/92	< 5.0	< 5.0	< 5.0	< 5.0			
	2/93	< 5.0	< 5.0	< 5.0	< 5.0			
	5/93	< 5.0	< 5.0	< 5.0	< 5.0			
	8/93	< 5.0	< 5.0	< 5.0	< 5.0			
	11/93	< 5.0	< 5.0	< 5.0	< 5.0			
	3/94	< 5.0	< 5.0	< 5.0	< 5.0			
	5/94	< 5.0	< 5.0	< 5.0	< 5.0			
	8/94	< 5.0	< 5.0	< 5.0	< 5.0			
	11/94	< 5.0	< 5.0	< 5.0	< 5.0			
	2/95	< 5.0	< 5.0	< 5.0	< 5.0			
	5/95	< 5.0	< 5.0	< 5.0	< 5.0			
	8/95	< 5.0	< 5.0	< 5.0	< 5.0			
	11/95	< 5.0	< 5.0	< 5.0	< 5.0			
	2/96	< 5.0	< 5.0	< 5.0	< 5.0			
	5/96	< 5.0	< 5.0	< 5.0	< 5.0			
	8/96	< 5.0	< 5.0	< 5.0	< 5.0			
	11/96	< 5.0	< 5.0	< 5.0	< 5.0			
	2/97	< 5.0	< 5.0	< 5.0	< 5.0			
	5/97	< 5.0	< 5.0	< 5.0	< 5.0			
	8/97	< 5.0	< 5.0	< 5.0	< 5.0			
	11/97	< 5.0	< 5.0	< 5.0	< 5.0			
	2/98	< 5.0	< 5.0	< 5.0	< 5.0			
	5/98	< 5.0	< 5.0	< 5.0	< 5.0			
	8/98	< 5.0	< 5.0	< 5.0	< 5.0			
	10/98	< 5.0	< 5.0	< 5.0	< 5.0			
	5/99	< 5.0	< 5.0	< 5.0	< 5.0			
	11/99	< 5.0	< 5.0	< 5.0	< 5.0			
	5/00	< 5.0	< 5.0	< 5.0	< 5.0			
	11/00	< 5.0	< 5.0	< 5.0	< 5.0			
	5/01	**1.2**	<1.0	<1.0	<1.0		< 1.0	
	11/01	**1.3**	<1.0	<1.0	<1.0		< 1.0	
	5/02	**3.6**	**5.4**	<1.0	<1.0		< 1.0	
	11/02	<1.0	<1.0	<1.0	<1.0			
	5/03	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	
	12/03	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	
	4/04	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/04	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/05	**2.1**	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	11/05	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	4/06	**3.4**	**1.6**	<1.0	<1.0	<1.0	<1.0	NS
	10/06	**2.2**	**1.9**	<1.0	<1.0	<1.0	<1.0	NS
	4/07	**3.2**	**1.5**	<1.0	<1.0	<1.0	<1.0	NS
	11/07	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/08	**3.4**	**1.8**	<1.0	<1.0	<1.0	<1.0	NS
	11/08	**11.1**	**8.6**	<1.0	**1.1**	<1.0	<1.0	NS
	5/09	**4.3**	**2.4**	<1.0	<1.0	<1.0	<1.0	NS
	11/09	**3.2**	**2.4**	<1.0	<1.0	<1.0	<1.0	NS
	5/10	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	NS
	11/10	**5.1**	**2.9**	<1.0	<1.0	<1.0	<1.0	NS
	5/11	**4.1**	**2.5**	<1.0	<1.0	<1.0	<1.0	NS
	11/11	**6.6**	**4.3**	<1.0	<1.0	<1.0	<1.0	NS
	5/12	**5.8**	**4.1**	<1.0	<1.0	<1.0	<1.0	NS
	5/13	**8.9**	**5.0**	<1.0	<1.0	<1.0	<1.0	NS
	5/14	**6.1**	**4.2**	<1.0	<1.0	<1.0	<1.0	NS

TABLE 5
HISTORICAL AND CURRENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN SURFACE WATER AND GROUNDWATER
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTIONS-IES PROJECT NO. 2014.0025.SCHN

Sample ID	Sample Date	1,1-DCA (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	PCE (µg/L)	*cis*-1,2-DCE (µg/L)	TCFM (µg/L)	1,4-Dioxane (µg/L)
NC 2L GW Standard		**6 ***	**7**	**200**	**0.7**	**70**	**2000**	**3 ****
MW-20	11/92	< 5.0	< 5.0	< 5.0	< 5.0			
	2/93	< 5.0	**9.0**	< 5.0	< 5.0			
	5/93	< 5.0	**8.0**	< 5.0	< 5.0			
	8/93	< 5.0	< 5.0	< 5.0	< 5.0			
	11/93	< 5.0	**9.0**	< 5.0	< 5.0			
	3/94	< 5.0	**7.0**	< 5.0	< 5.0			
	5/94	< 5.0	**11.0**	< 5.0	< 5.0			
	8/94	< 5.0	**16.0**	< 5.0	< 5.0			
	11/94	< 5.0	**15.0**	< 5.0	< 5.0			
	2/95	< 5.0	**13.0**	< 5.0	< 5.0			
	5/95	< 5.0	**12.0**	< 5.0	< 5.0			
	8/95	< 5.0	**15.0**	< 5.0	< 5.0			
	11/95	< 5.0	**8.5**	< 5.0	< 5.0			
	2/96	< 5.0	**11.0**	< 5.0	< 5.0			
	5/96	< 5.0	**13.0**	< 5.0	< 5.0			
	8/96	< 5.0	**5.2**	< 5.0	< 5.0			
	11/96	< 5.0	**8.0**	< 5.0	< 5.0			
	2/97	< 5.0	**5.7**	< 5.0	< 5.0			
	5/97	< 5.0	< 5.0	< 5.0	< 5.0			
	8/97	< 5.0	< 5.0	< 5.0	< 5.0			
	11/97	< 5.0	**12.0**	< 5.0	< 5.0			
	2/98	< 5.0	**6.0**	< 5.0	< 5.0			
	5/98	< 5.0	**8.0**	< 5.0	< 5.0			
	8/98	< 5.0	**11.0**	< 5.0	< 5.0			
	10/98	< 5.0	**13.0**	< 5.0	< 5.0			
	6/99	< 5.0	**8.2**	< 5.0	< 5.0			
	11/99	< 5.0	**6.0**	< 5.0	< 5.0			
	5/00	< 5.0	< 5.0	< 5.0	< 5.0			
	11/00	< 5.0	**8.2**	< 5.0	< 5.0			
	5/01	**1.7**	**7.7**	<1.0	<1.0		< 1.0	
	11/01	**1.5**	**7.5**	<1.0	<1.0		< 1.0	
	5/02	<1.0	**4.7**	<1.0	<1.0		< 1.0	
	11/02	<1.0	**4.6**	<1.0	<1.0			
	5/03	<1.0	**3.5**	<1.0	<1.0	<1.0	<1.0	
	12/03	**1.3**	**6.0**	<1.0	<1.0	<1.0	**3.5**	
	4/04	**1.7**	**6.8**	<1.0	<1.0	<1.0	**1.3**	<1.0
	11/04	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/05	<1.0	**5.9**	<1.0	<1.0	<1.0	**2.5**	NS
	11/05	**1.7**	**6.4**	<1.0	<1.0	<1.0	<1.0	NS
	4/06	**1.4**	**4.5**	<1.0	<1.0	<1.0	<1.0	NS
	10/06	**1.2**	**5.5**	<1.0	<1.0	<1.0	<1.0	NS
	4/07	**1.9**	**6.0**	<1.0	<1.0	<1.0	**1.0**	NS
	11/07				Not Sampled Due to Pump Malfunction			
	5/08	**1.1**	**2.5**	<1.0	<1.0	<1.0	<1.0	NS
	11/08	**5.3**	**4.9**	<1.0	<1.0	<1.0	<1.0	NS
	5/09	**2.9**	**5.2**	<1.0	<1.0	<1.0	<1.0	NS
	11/09	**3.4**	**7.4**	<1.0	<1.0	<1.0	**2.1**	NS
	5/10	<5.0	**5.6**	<1.0	<1.0	<5.0	<1.0	NS
	11/10	**3.2**	**4.5**	<1.0	<1.0	<1.0	<1.0	NS
	5/11	**7.7**	**10.4**	<1.0	<1.0	<1.0	<1.0	NS
	11/11	**3.1**	**4.8**	<1.0	<1.0	<1.0	<1.0	NS
	5/12	**7.1**	**9.9**	<1.0	<1.0	<1.0	**1.9**	NS
	5/13	**7.9**	**9.3**	<1.0	<1.0	<1.0	**1.0**	NS
	5/14	**6.9**	**8.0** GK	<1.0	<1.0	<1.0	**1.1**	NS

TABLE 5
HISTORICAL AND CURRENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN SURFACE WATER AND GROUNDWATER
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTIONS-IES PROJECT NO. 2014.0025.SCHN

Sample ID	Sample Date	1,1-DCA (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	PCE (µg/L)	*cis*-1,2-DCE (µg/L)	TCFM (µg/L)	1,4-Dioxane (µg/L)
NC 2L GW Standard		**6 ***	**7**	**200**	**0.7**	**70**	**2000**	**3 ****
MW-21	11/92	< 5.0	< 5.0	< 5.0	**6.0**			
	2/93	< 5.0	< 5.0	< 5.0	< 5.0			
	5/93	< 5.0	< 5.0	< 5.0	< 5.0			
	8/93	< 5.0	< 5.0	< 5.0	< 5.0			
	11/93	< 5.0	< 5.0	< 5.0	< 5.0			
	3/94	< 5.0	< 5.0	< 5.0	< 5.0			
	5/94	< 5.0	< 5.0	< 5.0	< 5.0			
	8/94	< 5.0	< 5.0	< 5.0	< 5.0			
	11/94	< 5.0	< 5.0	< 5.0	< 5.0			
	2/95	< 5.0	< 5.0	< 5.0	< 5.0			
	5/95	< 5.0	< 5.0	< 5.0	< 5.0			
	8/95	< 5.0	< 5.0	< 5.0	< 5.0			
	11/95	< 5.0	< 5.0	< 5.0	< 5.0			
	2/96	< 5.0	< 5.0	< 5.0	< 5.0			
	5/96	< 5.0	< 5.0	< 5.0	< 5.0			
	8/96	< 5.0	< 5.0	< 5.0	< 5.0			
	11/96	< 5.0	< 5.0	< 5.0	< 5.0			
	2/97	< 5.0	< 5.0	< 5.0	< 5.0			
	5/97	< 5.0	< 5.0	< 5.0	< 5.0			
	8/97	< 5.0	< 5.0	< 5.0	< 5.0			
	11/97	< 5.0	<5.0	< 5.0	< 5.0			
	2/98	< 5.0	< 5.0	< 5.0	< 5.0			
	5/98	< 5.0	< 5.0	< 5.0	< 5.0			
	8/98	< 5.0	<5.0	< 5.0	< 5.0			
	10/98	< 5.0	< 5.0	< 5.0	< 5.0			
	5/99	< 5.0	< 5.0	< 5.0	< 5.0			
	11/99	< 5.0	< 5.0	< 5.0	< 5.0			
	5/00	< 5.0	< 5.0	< 5.0	< 5.0			
	11/00	< 5.0	**5.4**	< 5.0	< 5.0			
	5/01	**2.5**	**2.5**	<1.0	<1.0		< 1.0	
	11/01	**3.2**	**6.2**	<1.0	<1.0		< 1.0	
	5/02	**2.4**	**2.5**	<1.0	<1.0		< 1.0	
	11/02	**2.7**	**3.9**	<1.0	<1.0			
	5/03	**4.0**	**5.6**	<1.0	<1.0	<1.0	< 1.0	
	12/03	<1.0	**4.5**	<1.0	<1.0	<1.0	< 1.0	
	4/04	**3.5**	**4.1**	<1.0	<1.0	<1.0	<1.0	<1.0
	11/04	**2.5**	**2.5**	<1.0	<1.0	<1.0	<1.0	NS
	5/05	**3.2**	**3.0**	<1.0	<1.0	<1.0	<1.0	NS
	11/05	**4.4**	**5.6**	<1.0	<1.0	<1.0	<1.0	NS
	4/06	**5.3**	**6.8**	<1.0	<1.0	<1.0	<1.0	NS
	10/06	**5.2**	**7.8**	<1.0	<1.0	<1.0	<1.0	NS
	4/07	**6.1**	**6.9**	<1.0	<1.0	<1.0	<1.0	NS
	11/07	**2.8**	**2.9**	<1.0	<1.0	<1.0	<1.0	NS
	5/08	**4.8**	**4.3**	<1.0	<1.0	<1.0	<1.0	NS
	11/08	**17.9**	**11.9**	<1.0	**1.5**	<1.0	<1.0	NS
	5/09	**4.2**	**3.2**	<1.0	<1.0	<1.0	<1.0	NS
	11/09	**4.5**	**4.2**	<1.0	<1.0	<1.0	<1.0	NS
	5/10	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	NS
	11/10	**4.0**	**2.5**	<1.0	<1.0	<1.0	<1.0	NS
	5/11	**6.2**	**4.0**	<1.0	<1.0	<1.0	<1.0	NS
	11/11	**5.1**	**3.3**	<1.0	<1.0	<1.0	<1.0	NS
	5/12	**3.8**	**2.7**	<1.0	<1.0	<1.0	<1.0	NS
	5/13	**4.1**	**2.6**	<1.0	<1.0	<1.0	<1.0	NS
	5/14	**3.5**	**2.2**	<1.0	<1.0	<1.0	<1.0	NS

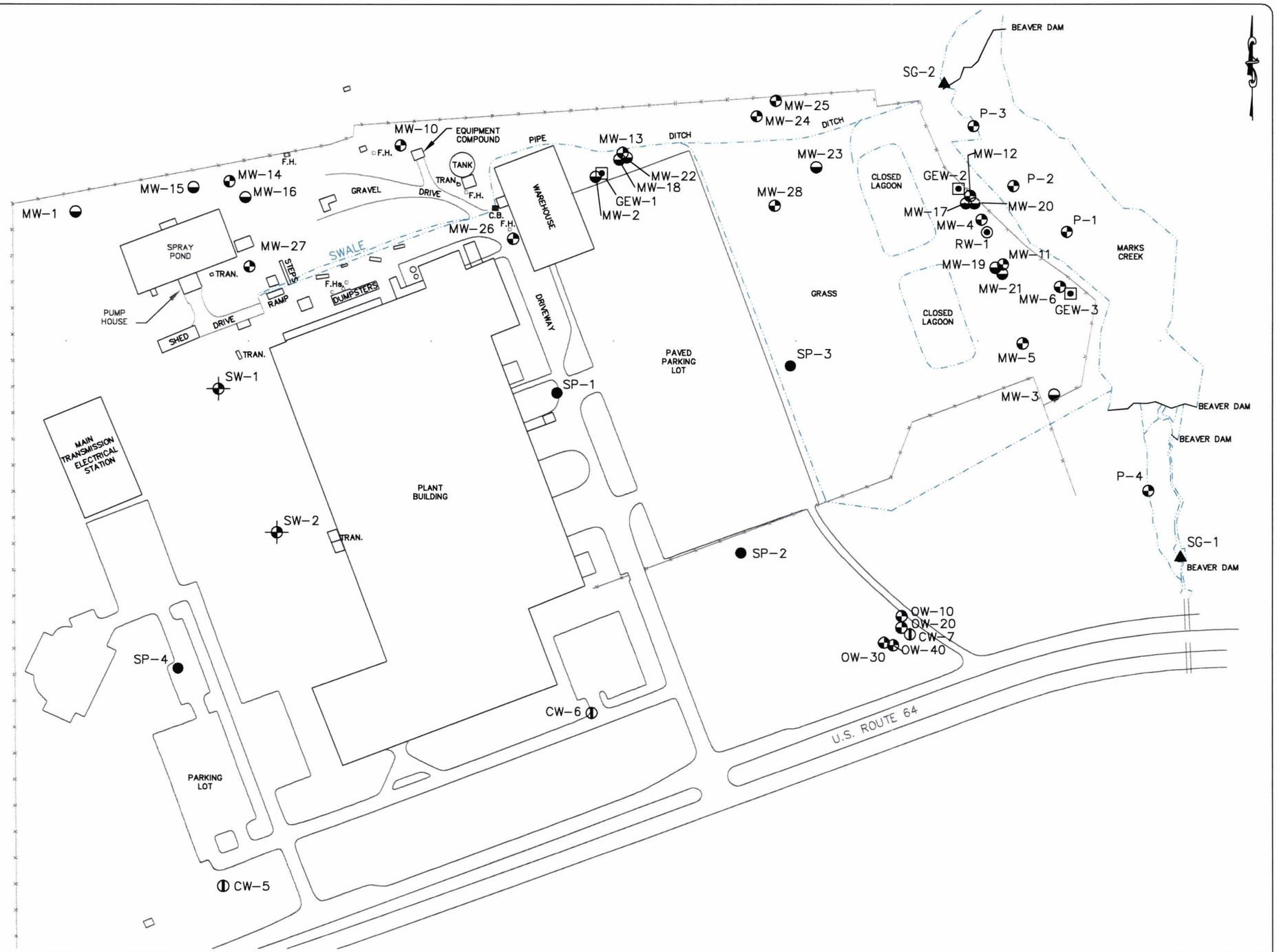
TABLE 5
HISTORICAL AND CURRENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN SURFACE WATER AND GROUNDWATER
SCHNEIDER ELECTRIC COMPANY
KNIGHTDALE, NORTH CAROLINA
SOLUTIONS-IES PROJECT NO. 2014.0025.SCHN

Sample ID	Sample Date	1,1-DCA (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	PCE (µg/L)	*cis*-1,2-DCE (µg/L)	TCFM (µg/L)	1,4-Dioxane (µg/L)
NC 2L GW Standard		**6 ***	**7**	**200**	**0.7**	**70**	**2000**	**3 ****
SG-1	11/07	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/08	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	11/08	<1.0	<1.0	<1.0	<1.0	**1.6**	<1.0	NS
	11/08	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/09	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	11/09	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/10	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	NS
	11/10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	11/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
P-2	11/07	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/08	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	11/08	**13.9**	<1.0	<1.0	<1.0	**6.7**	<1.0	NS
	11/08	**1.7**	**1.6**	<1.0	<1.0	<1.0	<1.0	NS
	5/09	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	11/09	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/10	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	NS
	11/10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	11/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
SG-2	11/07	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/08	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	11/08	NS	NS	NS	NS	NS	NS	NS
	11/08	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/09	NS	NS	NS	NS	NS	NS	NS
	11/09	NS	NS	NS	NS	NS	NS	NS
	5/10	NS	NS	NS	NS	NS	NS	NS
	11/10	NS	NS	NS	NS	NS	NS	NS
	5/11	NS	NS	NS	NS	NS	NS	NS
	11/11	NS	NS	NS	NS	NS	NS	NS
	5/12	NS	NS	NS	NS	NS	NS	NS
	11/12	NS	NS	NS	NS	NS	NS	NS
	5/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS
	5/14	NS	NS	NS	NS	NS	NS	NS

Note:
NA = Not Analyzed
NR = Not Reported
NS = Not Sampled
J flag indicates an estimated concentration less than the specified minimum detection limit
Bold data indicates result is above the laboratory reporting limit
Shaded and bold concentrations exceed the NC 2L Groundwater Standard in effect at that time.
Blank fields indicate data is not available.
Analysis for 1,4-dioxane began April 2004.
Analytes not shown were not detected above the laboratory method detection limits.

1,1-DCA denotes 1,1-dichloroethane.
1,1-DCE denotes 1,1-dichloroethene.
cis-1,2-DCE denotes cis-1,2-dichloroethene.
PCE denotes tetrachloroethene.
TCFM denotes trichlorofluoromethane.
* = NC 2L Standard changed in Jan 2010 from 70 µg/L to 6 µg/L.
** = NC 2L Standard changed in Jan 2010 from 7 µg/L to 3 µg/L.

PROJECT NUMBER 2014.0025.SCHN | DRAFTER KTS | CHECKED BY MTL | PROJECT MANAGER SKJ | DATE 6/16/2014 | FILE SchneiderElectricX.dwg



LEGEND

MW-14	SHALLOW MONITORING / OBSERVATION WELL LOCATION
MW-15	DEEP MONITORING / OBSERVATION WELL LOCATION
SP-3	CLOSED WELL LOCATION
GEW-3	GROUND WATER EXTRACTION WELL LOCATION
RW-1	RECOVERY WELL LOCATION
SG-1	STREAM GAUGE
CW-5	FORMER CITY WELL LOCATION
SW-2	WATER SUPPLY WELL LOCATION
P-1	PIEZOMETER
	FENCE
	SURFACE WATER
TRAN.	TRANSFORMER
C.B.	CATCH BASIN
F.H.	FIRE HYDRANT

0 200 400

SCALE IN FEET

Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

NOTES:
1. BASE MAP DIGITIZED FROM PHOTOCOPY OF MAP MADE BY "S&ME ENVIRONMENTAL SERVICES", DATED NOVEMBER, 1998 AT A SCALE OF 1"=200'. MARKS CREEK OUTLINE UPDATED BASED ON APRIL 2002 SURVEY

2. ALL LOCATIONS ARE APPROXIMATE

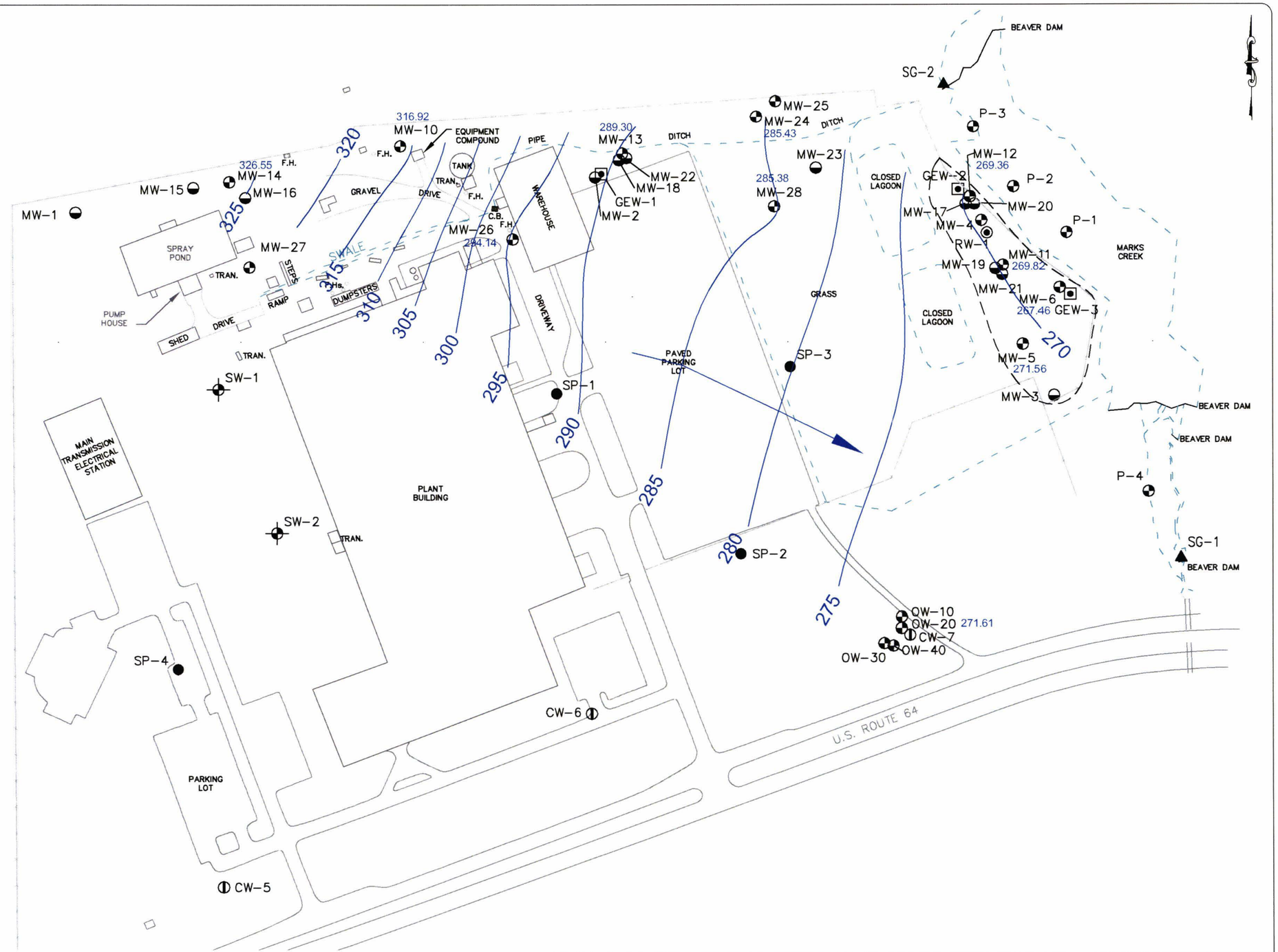
SCHNEIDER ELECTRIC COMPANY
8001 US HIGHWAY 64 BUSINESS EAST
KNIGHTDALE, WAKE COUNTY, NORTH CAROLINA
27545

SITE MAP

FIGURE: 1

J:\Project Files\Schneider Electric\Current Drawings\Knightdale CAD\Current Drawings\SchneiderElectricX.dwg

PROJECT NUMBER 2014.0025.SCHN | DRAFTER KTS | CHECKED BY SKJ | PROJECT MANAGER MTL | DATE 6/16/2014 | FILE SchneiderElectricX.dwg



LEGEND

MW-14	SHALLOW MONITORING / OBSERVATION WELL LOCATION / PIEZOMETER
MW-15	DEEP MONITORING / OBSERVATION WELL LOCATION
SP-3	CLOSED WELL LOCATION
GEW-3	GROUND WATER EXTRACTION WELL LOCATION
RW-1	RECOVERY WELL LOCATION
SG-1	STREAM GAUGE
CW-5	FORMER CITY WELL LOCATION
SW-2	WATER SUPPLY WELL LOCATION
	FENCE
	SURFACE WATER
TRAN.	TRANSFORMER
C.B.	CATCH BASIN
F.H.	FIRE HYDRANT
	INFERRED AREAL EXTENT OF RESIDUAL VOCs IN GROUNDWATER
385	GROUNDWATER ELEVATION CONTOUR CI=5.0 FT.
268.2	GROUNDWATER ELEVATION (FT ABOVE MEAN SEA LEVEL)
	IMPLIED DIRECTION OF GROUNDWATER FLOW

0 200 400

SCALE IN FEET

Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

NOTES:
1. BASE MAP DIGITIZED FROM P HOTOCOPY OF MAP MADE BY "S&ME ENVIRONMENTAL SERVICES", D ATED NOVEMBER, 1998 AT A SCALE OF 1"=200'. MARKS CREEK OUTLINE UPDAT ED BASED ON APRIL 2002 SURVEY

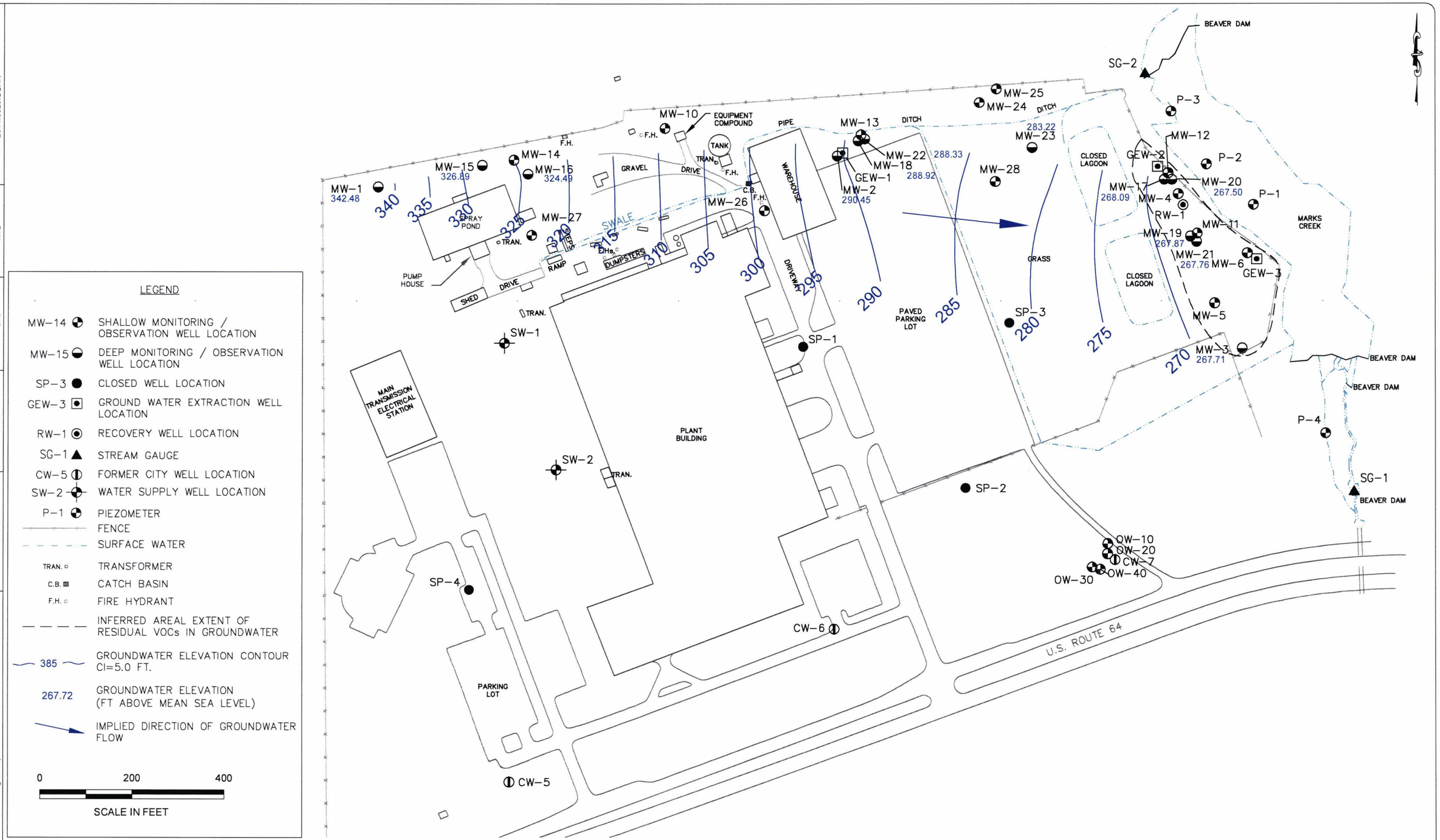
2. ALL LOCATIONS ARE APPROX:IMATE

SCHNEIDER ELECTRIC COMPANY
8001 US HIGHWAY 64 BUSINESS EAST
KNIGHTDALE, WAKE COUNTY, NORTH CAROLINA
27545

POTENTIOMETRIC SURFACE MAP
FOR THE SURFICIAL AQUIFER
MAY 2014

FIGURE: 2

PROJECT NUMBER 2014.0025.SCHN | DRAFTER KTS | CHECKED BY SKJ | PROJECT MANAGER MTL | DATE 6/16/2014 | FILE Figure 3.pdf



Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

NOTES:
1. BASE MAP DIGITIZED FROM PHOTOCOPY OF MAP MADE BY "S&ME ENVIRONMENTAL SERVICES", DATED NOVEMBER, 1998 AT A SCALE OF 1"=200'. MARKS CREEK OUTLINE UPDATED BASED ON APRIL 2002 SURVEY

2. ALL LOCATIONS ARE APPROXIMATE

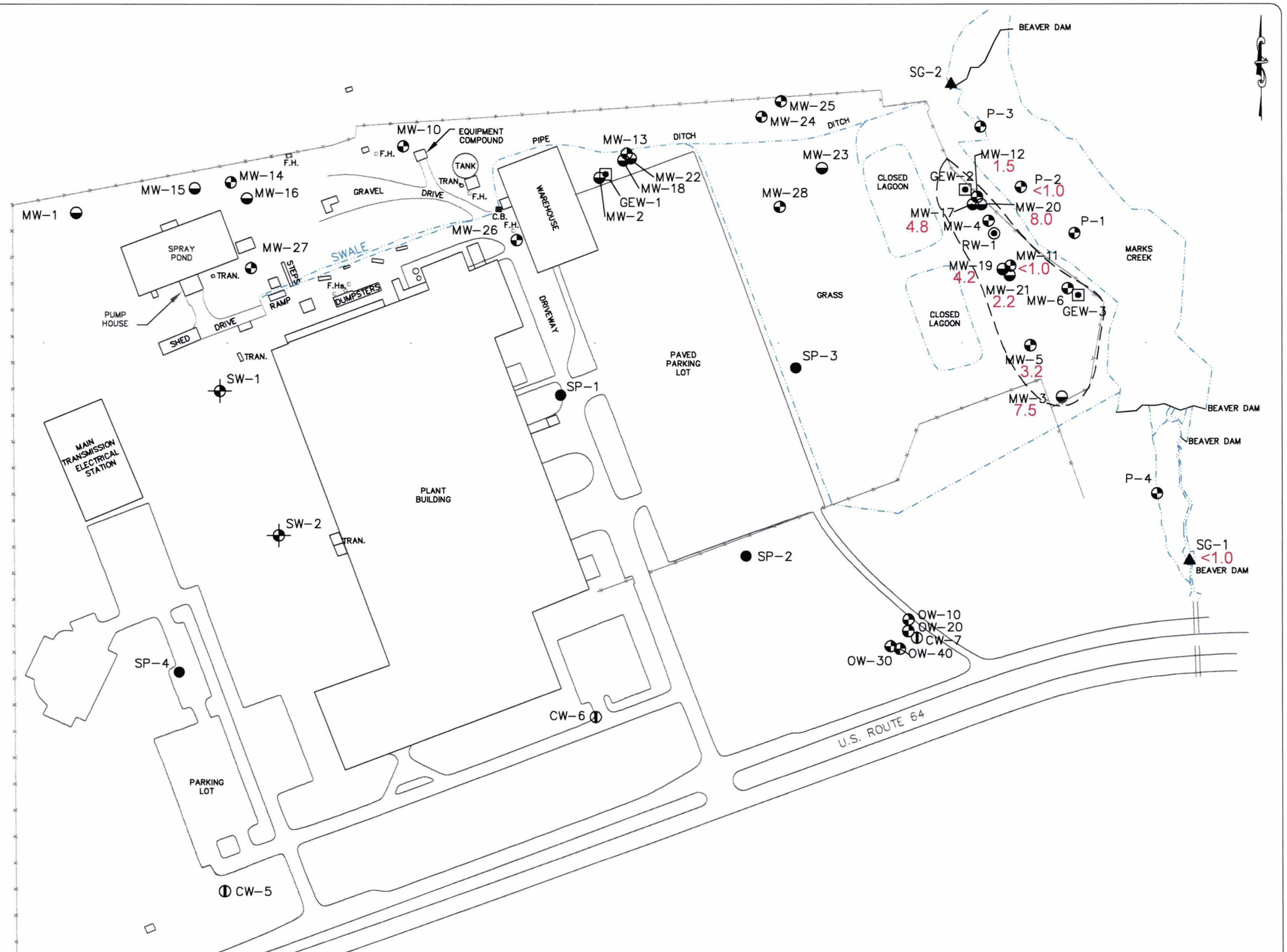
SCHNEIDER ELECTRIC COMPANY
8001 US HIGHWAY 64 BUSINESS EAST
KNIGHTDALE, WAKE COUNTY, NORTH CAROLINA
27545

POTENTIOMETRIC SURFACE MAP
FOR THE BEDROCK AQUIFER
MAY 2014

FIGURE: 3

J:\Project Files\Schneider Electric Knightdale\CAD\Current Drawings\SchneiderElectric.dwg\3

PROJECT NUMBER 2014.0025.SCHN | DRAFTER KTS | CHECKED BY SJ | PROJECT MANAGER MTL | DATE 6/16/2014 | FILE Figure 4.pdf



LEGEND

MW-14	SHALLOW MONITORING / OBSERVATION WELL LOCATION
MW-15	DEEP MONITORING / OBSERVATION WELL LOCATION
SP-3	CLOSED WELL LOCATION
GEW-3	GROUND WATER EXTRACTION WELL LOCATION
RW-1	RECOVERY WELL LOCATION
SG-1	STREAM GAUGE
CW-5	FORMER CITY WELL LOCATION
SW-2	WATER SUPPLY WELL LOCATION
P-1	PIEZOMETER
	FENCE
	SURFACE WATER
TRAN.	TRANSFORMER
C.B.	CATCH BASIN
F.H.	FIRE HYDRANT
	INFERRED AREAL EXTENT OF RESIDUAL VOCs IN GROUNDWATER
8.0	1,1-DCE (CONCENTRATIONS IN µg/L)

0 200 400

SCALE IN FEET

Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

NOTES:
1. BASE MAP DIGITIZED FROM PHOTOCOPY OF MAP MADE BY "S&ME ENVIRONMENTAL SERVICES", DATED NOVEMBER, 1998 AT A SCALE OF 1"=200'. MARKS CREEK OUTLINE UPDATED BASED ON APRIL 2002 SURVEY

2. ALL LOCATIONS ARE APPROXIMATE

SCHNEIDER ELECTRIC COMPANY
8001 US HIGHWAY 64 BUSINESS EAST
KNIGHTDALE, WAKE COUNTY, NORTH CAROLINA
27545

1,1-DCE CONCENTRATIONS
IN GROUNDWATER AND SURFACE WATER
MAY 2014

FIGURE: 4

J:\Project Files\Schneider Electric\Current Drawings\Knightdale CAD\Current Drawings\SchneiderElectric X dwg, 4

APPENDIX A

NCDENR HSWA ONLY PERMIT APPROVAL LETTER

NCDENR
North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary

August 10, 2007

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Harry Hyatt, Facilities Manager
Square D Company
P.O. Box 27446
Raleigh, North Carolina 27611-7446

Re: Hazardous Waste Management Permit
Issuance of Final HSWA-only Permit
EPA ID # NCD 067 203 752

Dear Mr. Hyatt:

This is notification of the decision to issue the hazardous waste management permit under the Resource, Conservation and Recovery Act (RCRA) for Square D Company. This permit identifies remediation activities that will be conducted in accordance with the North Carolina Hazardous Waste Management Rules. The enclosed permit will constitute the RCRA permit for Square D.

The public comment period for the Draft Permit ended on July 25, 2007. No comments were received, therefore the permit will be effective on the issue date, August 10, 2007.

If you have any questions, please contact Carl Utterback at (919) 508-8567.

Sincerely,

Elizabeth W. Cannon

Elizabeth W. Cannon, Chief
Hazardous Waste Section

Enclosures

cc: Jon D. Johnston, US EPA, Region 4
Otis Johnson, US EPA, Region 4
Jeff Pallas, US EPA, Region 4
Ted Bush, DWQ
Ted Cashion
Square D Mailing List

rc: Bud McCarty
Bob Glaser
Vance Jackson
Carl Utterback
Mary Siedlecki

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone 919-508-8400 \ FAX 919-715-4061 \ Internet http://wastenotnc.org
An Equal Opportunity / Affirmative Action Employer – Printed on Dual Purpose Recycled Paper

C:\mel\cou\square D final permit letter.doc

NCDENR
North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director | Division of Waste Management | Michael F. Easley, Governor
William G. Ross Jr., Secretary

NOTICE OF FINAL RCRA PERMIT DECISION

FACILITY NAME:	Square D Company
EPA ID Number:	NCD 067 203 752
Location:	8001 Highway 64 East Knightdale, NC 37545
Facility Operator:	Square D Company
Facility Owner:	TG LVF Knightdale, LLC [Eastpoint]

After due consideration of the facts applicable to the above named facility as they appear in the Administrative Record and the requirements and policies expressed in the Resource Conservation and Recovery Act (RCRA) and applicable state regulations (15A NCAC 13A), the Department has determined that the permit should be issued.

In accordance with 40 CFR 124.15 as adopted in 15A NCAC 13A .0105, the permit will become effective on August 10, 2007. Since no comments were received during the public comment period and no changes have been made to the Draft Permit, there are no appeal rights under 40 CFR 124.19 as adopted in 15A NCAC 13A .0105.

The Administrative Record, with respect to this determination, is maintained at the Department's offices, 401 Oberlin Road, Suite 150, Raleigh, North Carolina 27605, and is available for public inspection between the hours of 9:00 a.m. and 4:00 p.m. Monday through Friday. For further information on this permit action or file room appointments, contact the File Room at (919) 508-8564.

Elizabeth W. Cannon

Elizabeth W. Cannon, Chief
Hazardous Waste Section

8-10-07
Date

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone 919-508-8400 \ FAX 919-715-4061 \ Internet http://wastenotnc.org
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APPENDIX B

FIELD NOTES AND WATER SAMPLING LOGS

5/30/14 2014.0605 - SV-D S. McIntyre

8:10 Depart office, Stop for gas

8:50 Pick up Keys + Stage drum

9:00 Review HASP

9:30 Collect SG-1 WL = 1.0
pH 6.31 Cond 146 Temp 19.95

9:40 gauge P4 I - .33 O - 4.16

9:50 gauge P1 I - 2.78 O - 3.26 mod

10:00 Sample P2 I .70 O - 1.18
ph 6.24 cond 144 Temp 19.39

10:10 gauge P3 I - 1.18 O - 3.34

10:20 gauge SG2 WL = 2.62

10:30 Calibrated meters + began Sampling + gauging wells

5/30/14

well ID	DTW	well ID	DTW
MW-3	11.03	RW-1	8.53
MW-5	9.76	MW-25*	17.58
MW-11	8.42	MW-26	26.15
MW-12	7.43	MW-27	UNABLE TO LOCATE
MW-17	9.50	MW-28	14.50
MW-19	10.34	OW-10	23.83
MW-20	9.38	OW-20**	22.14
MW-21	10.55	OW-30	21.84
MW-1	9.33	OW-40	21.19
MW-2	28.10	SG-1	1.0
MW-4	9.58	SG-2	2.62
MW-6	9.04	P1 (inside)	2.78
MW-10	16.91	P1 (outside)	3.26
MW-13	27.10	P2 (inside)	.70
MW-14	20.88	P2 (outside)	1.18
MW-15	21.64	P3 (inside)	1.18
MW-16	19.69	P3 (outside)	3.34
MW-18	26.86	P4 (inside)	.33
MW-22	26.76	P4 (outside)	4.16 (mud)
MW-23	16.36		
MW-24	20.06		

* obstruction @ 5.86', broke through w/ drill, tagged WL

** " (obstruction @ 8.73')

1400 All wells sampled + back

1410 Dispose of IDW - 1 drum (3/4 full)
Located in storage area + labeled
"SQ-D Non haz purge H2O 5/30/14"

1415 off-site for lab

1430 drop off - samples

1440 back at office

Solutions
Industrial & Environmental Services

WATER SAMPLING LOG

Project Number	2014.0025	Date	5/3/14
Project Name	Square-D	Site/Well No.	P-2
Project Location	Knightdale	Weather Conditions	75-Cloudy
Time Sampling Began	10:00	Time Sampling Ended	—

WELL DEPTH AND WATER VOLUME CALCULATIONS

Description of Measuring Point Top of Piez.

		.20	ft.
x	Inside P-2	1.18	ft.
x	Outside P-2		

WELL PURGING AND DO MEASUREMENT

☐ Check Box if required. Dissolved Oxygen Reading _____ mg/L.

SAMPLING DATA / FIELD PARAMETERS

x	Time of Measurement	10:00						
	Purge Rate							
x	pH	6.24						
x	Spec. Conductance	144						
x	Temperature (°C/°F)	19.39						
	Turbidity (NTUs)							
	REDOX (mv)							
	Other							
	Other							
	Odor (Subjective)							
	Color (Subjective)							

Comments: Sample Time: 1000

SAMPLING METHOD

Bailer, Submersible Pump, etc. Grab

ANALYTICAL AND CONTAINER INFORMATION

Analyses	Container Type (Lab Inventory)	Preservative
8260	3 x 40 ml VOA	HCL

Remarks:

SAMPLING PERSONNEL

1. S. Jamath 2. 3.
4. 5. 6.

Solutions
Industrial & Environmental Services

WATER SAMPLING LOG

Project Number	2014.0085	Date	5/30/14
Project Name	Square-D	Site/Well No.	SG-1
Project Location	Knightdale	Weather Conditions	75- cloudy
Time Sampling Began	930	Time Sampling Ended	

WELL DEPTH AND WATER VOLUME CALCULATIONS

Description of Measuring Point Stream Gauge

1.0 ft.

x SG-1 ____ ft.

WELL PURGING AND DO MEASUREMENT

☐ Check Box if required. Dissolved Oxygen Reading ____ mg/L.

SAMPLING DATA / FIELD PARAMETERS

x	Time of Measurement	930						
	Purge Rate							
x	pH	6.31						
x	Spec. Conductance	146						
x	Temperature (°C/°F)	19.95						
	Turbidity (NTUs)							
	REDOX (mv)							
	Other							
	Other							
	Odor (Subjective)							
	Color (Subjective)							

Comments: Sample Time: 930

SAMPLING METHOD

Bailer, Submersible Pump, etc. Grab

ANALYTICAL AND CONTAINER INFORMATION

Analyses	Container Type (Lab Inventory)	Preservative
8260	3 x 40 ml VOA	HCL

Remarks:

SAMPLING PERSONNEL

1. S. Jarratt 2. 3.
4. 5. 6.

Solutions
Industrial & Environmental Services

WATER SAMPLING LOG

Project Number	2014.	Date	5/30/2014
Project Name	Square-D	Site/Well No.	MW-3
Project Location	Knightdale	Weather Conditions	overcast, 85°
Time Sampling Began	1305	Time Sampling Ended	1310

WELL DEPTH AND WATER VOLUME CALCULATIONS

Description of Measuring Point TOC

x Depth to Water Below MP _____ ft.

WELL PURGING AND DO MEASUREMENT

[x] Check Box if required. x Dissolved Oxygen Reading 0.80 mg/L.

SAMPLING DATA / FIELD PARAMETERS

[x]	Time of Measurement	1245	1250	1255	1300	1305		
[x]	Purge Rate	200	200	200	200	200		
[x]	pH	6.07	5.69	5.72	5.70	5.71		
[x]	Spec. Conductance (us/cm)	179	188	190	194	198		
[x]	Temperature (°C/°F)	17.12	17.21	17.26	17.20	17.11		
[x]	Turbidity (NTUs)	1.08	0.45	0.36	0.41	0.46		
[x]	REDOX (mv)	-62.9	-56.0	-60.2	-42.7	-35.8		
[x]	Other Water Level	11.17	11.17	11.17	11.17	11.17		
[ ]	Other							
[ ]	Odor (Subjective)							
[ ]	Color (Subjective)							

Comments: Sample time: 1305

SAMPLING METHOD

Bailer, Submersible Pump, etc. Peristaltic Pump

ANALYTICAL AND CONTAINER INFORMATION

Analyses	Container Type (Lab Inventory)	Preservative
8260	3 x 40 ml VOA	HCL

Remarks: Retubed well

SAMPLING PERSONNEL

1. Samuel McIntyre 2. _____ 3. _____
4. _____ 5. _____ 6. _____

Solutions
Industrial & Environmental Services

WATER SAMPLING LOG

Project Number		Date	5/30/2014
Project Name	Square-D	Site/Well No.	MW-5
Project Location	Knightdale	Weather Conditions	overcast, drizzle
Time Sampling Began	1345	Time Sampling Ended	

WELL DEPTH AND WATER VOLUME CALCULATIONS

Description of Measuring Point TOC

x Depth to Water Below MP _____ ft.

WELL PURGING AND DO MEASUREMENT

[x] Check Box if required. x Dissolved Oxygen Reading 0.78 mg/L.

SAMPLING DATA / FIELD PARAMETERS

[x]	Time of Measurement	1330	1335	1340	1345			
[x]	Purge Rate	200	200	200	200			
[x]	pH	5.62	5.63	5.63	5.62			
[x]	Spec. Conductance	288	289	288	288			
[x]	Temperature (°C/°F)	17.01	17.00	16.99	16.98			
[x]	Turbidity (NTUs)	1.00	0.13	0.24	0.43			
[x]	REDOX (mv)	4.2	3.1	4.6	4.4			
[x]	Other Water Level	9.88	9.89	9.89	9.89			
[ ]	Other							
[ ]	Odor (Subjective)							
[ ]	Color (Subjective)							

Comments: Sample time: 1345

SAMPLING METHOD

Bailer, Submersible Pump, etc. Peristaltic Pump

ANALYTICAL AND CONTAINER INFORMATION

Analyses	Container Type (Lab Inventory)	Preservative
8260	3 x 40 ml VOA	HCL

Remarks: Retested well

SAMPLING PERSONNEL

1. _____ 2. _____ 3. _____
4. _____ 5. _____ 6. _____

Solutions
Industrial & Environmental Services

WATER SAMPLING LOG

Project Number	2014.0025	Date	5/30/14
Project Name	Square-D	Site/Well No.	MW-11
Project Location	Knightdale	Weather Conditions	75° - Cloudy
Time Sampling Began	1135	Time Sampling Ended	1155

WELL DEPTH AND WATER VOLUME CALCULATIONS

Description of Measuring Point TOC

x Depth to Water Below MP 8.42 ft.

WELL PURGING AND DO MEASUREMENT

[x] Check Box if required. x Dissolved Oxygen Reading 1.02 mg/L.

SAMPLING DATA / FIELD PARAMETERS

[x]	Time of Measurement	1140	1145	1150	1155			
[x]	Purge Rate	300	→					
[x]	pH	5.66	5.64	5.64	5.63			
[x]	Spec. Conductance	204	223	237	239			
[x]	Temperature (°C/°F)	15.03	15.01	14.98	14.97			
[x]	Turbidity (NTUs)	9.61	5.13	4.11	3.24			
[x]	REDOX (mv)	-18.1	-11.4	-7.1	-5.3			
[x]	Other Water Level	8.47	8.46	8.49	8.47			
[ ]	Other							
[ ]	Odor (Subjective)							
[ ]	Color (Subjective)							

Comments: Sample time: 1155

SAMPLING METHOD

Bailer, Submersible Pump, etc. Well wizzard

ANALYTICAL AND CONTAINER INFORMATION

Analyses	Container Type (Lab Inventory)	Preservative
8260	3 x 40 ml VOA	HCL
1-4, Dioxane	2 x 1 Liter Amber	None

Remarks:

SAMPLING PERSONNEL

1. S. Jarvah 2. 3.
4. 5. 6.

Solutions
Industrial & Environmental Services

WATER SAMPLING LOG

Project Number	2014.0625	Date	5/30/14
Project Name	Square-D	Site/Well No.	MW-12
Project Location	Knightdale	Weather Conditions	75-cloudy
Time Sampling Began	1305	Time Sampling Ended	1330

WELL DEPTH AND WATER VOLUME CALCULATIONS

Description of Measuring Point TOC

x Depth to Water Below MP 7.43 ft.

WELL PURGING AND DO MEASUREMENT

[x] Check Box if required. x Dissolved Oxygen Reading 0.95 mg/L.

SAMPLING DATA / FIELD PARAMETERS

x	Time of Measurement	1310	1315	1320	1325	1330		
x	Purge Rate	300						
x	pH	5.67	5.55	5.53	5.54	5.53		
x	Spec. Conductance	256	254	275	278	281		
x	Temperature (°C/°F)	17.81	17.07	17.04	17.04	17.05		
x	Turbidity (NTUs)	8.41	4.36	3.81	3.73	3.61		
x	REDOX (mv)	12.3	6.1	-1.5	-4.2	-6.8		
x	Other Water Level	7.52	7.58	7.55				
	Other							
	Odor (Subjective)							
	Color (Subjective)							

Comments: Sample time: 1330 Collected DUP-1 from MW-12

SAMPLING METHOD

Bailer, Submersible Pump, etc. Well wizzard

ANALYTICAL AND CONTAINER INFORMATION

Analyses	Container Type (Lab Inventory)	Preservative
8260	3 x 40 ml VOA	HCL
1-4, Dioxane	2 x 1 Liter Amber	None

Remarks:

SAMPLING PERSONNEL

1. S. Jarvis 2. 3.
4. 5. 6.

Solutions
Industrial & Environmental Services

WATER SAMPLING LOG

Project Number	2014.0025	Date	5/30/14
Project Name	Square-D	Site/Well No.	MW-17
Project Location	Knightdale	Weather Conditions	75-cloudy
Time Sampling Began	1240	Time Sampling Ended	1300

WELL DEPTH AND WATER VOLUME CALCULATIONS

Description of Measuring Point TOC

x Depth to Water Below MP 9.50 ft.

WELL PURGING AND DO MEASUREMENT

[x] Check Box if required. x Dissolved Oxygen Reading 0.76 mg/L.

SAMPLING DATA / FIELD PARAMETERS

[x]	Time of Measurement	1245	1250	1255	1300			
[x]	Purge Rate	275	→	→	→			
[x]	pH	6.95	6.65	6.63	6.60			
[x]	Spec. Conductance	260	251	247	243			
[x]	Temperature (°C/°F)	16.81	16.84	16.86	16.84			
[x]	Turbidity (NTUs)	6.43	5.11	4.20	3.60			
[x]	REDOX (mv)	-16.0	-23.9	-29.8	-33.1			
[x]	Other Water Level	9.56	9.58	9.55	9.58			
[ ]	Other							
[ ]	Odor (Subjective)							
[ ]	Color (Subjective)							

Comments: Sample time: 1300

SAMPLING METHOD

Bailer, Submersible Pump, etc. Well wizzard

ANALYTICAL AND CONTAINER INFORMATION

Analyses	Container Type (Lab Inventory)	Preservative
8260	3 x 40 ml VOA	HCL
1-4, Dioxane	2 x 1 Liter Amber	None

Remarks:

SAMPLING PERSONNEL

1. S. Jarratt 2. 3.
4. 5. 6.

Solutions
Industrial & Environmental Services

WATER SAMPLING LOG

Project Number	2014.0025	Date	5/30/14
Project Name	Square-D	Site/Well No.	MW-19
Project Location	Knightdale	Weather Conditions	75- cloudy
Time Sampling Began	11:10	Time Sampling Ended	1130

WELL DEPTH AND WATER VOLUME CALCULATIONS

Description of Measuring Point TOC

x Depth to Water Below MP 10.34 ft.

WELL PURGING AND DO MEASUREMENT

[x] Check Box if required. x Dissolved Oxygen Reading 0.98 mg/L.

SAMPLING DATA / FIELD PARAMETERS

[x]	Time of Measurement	11:15	11:20	11:25	1130			
[x]	Purge Rate	275	→					
[x]	pH	7.57	7.30	7.18	7.16			
[x]	Spec. Conductance	403	380	365	363			
[x]	Temperature (°C/°F)	16.41	16.37	16.37	16.38			
[x]	Turbidity (NTUs)	8.14	4.44	3.14	2.98			
[x]	REDOX (mv)	-32.0	-30.1	-27.1	-24.9			
[x]	Other Water Level	10.62	10.66	10.63	10.67			
[ ]	Other							
[ ]	Odor (Subjective)							
[ ]	Color (Subjective)							

Comments: Sample time: 1130

SAMPLING METHOD

Bailer, Submersible Pump, etc. Well wizzard

ANALYTICAL AND CONTAINER INFORMATION

Analyses	Container Type (Lab Inventory)	Preservative
8260	3 x 40 ml VOA	HCL

Remarks:

SAMPLING PERSONNEL

1. S. Jacobs 2. 3.
4. 5. 6.

Solutions
Industrial & Environmental Services

WATER SAMPLING LOG

Project Number	2014.0025	Date	5/30/14
Project Name	Square-D	Site/Well No.	MW-20
Project Location	Knightdale	Weather Conditions	
Time Sampling Began	1215	Time Sampling Ended	1235

WELL DEPTH AND WATER VOLUME CALCULATIONS

Description of Measuring Point TOC

x Depth to Water Below MP 9.38 ft.

WELL PURGING AND DO MEASUREMENT

[x] Check Box if required. x Dissolved Oxygen Reading 0.91 mg/L.

SAMPLING DATA / FIELD PARAMETERS

[x]	Time of Measurement	1220	1225	1230	1235			
[x]	Purge Rate	300	→	→	→			
[x]	pH	8.52	8.47	8.45	8.43			
[x]	Spec. Conductance	324	336	333	331			
[x]	Temperature (°C/°F)	16.51	16.49	16.47	16.48			
[x]	Turbidity (NTUs)	3.17	2.48	2.31	2.26			
[x]	REDOX (mv)	4.6	0.1	-6.4	-8.3			
[x]	Other Water Level	9.42	9.46	9.45	9.44			
[ ]	Other							
[ ]	Odor (Subjective)							
[ ]	Color (Subjective)							

Comments: Sample time: 1235

SAMPLING METHOD

Bailer, Submersible Pump, etc. Well wizzard

ANALYTICAL AND CONTAINER INFORMATION

Analyses	Container Type (Lab Inventory)	Preservative
8260	3 x 40 ml VOA	HCL

Remarks:

SAMPLING PERSONNEL

1. S. Jarvah 2. 3.
4. 5. 6.

Solutions
Industrial & Environmental Services

WATER SAMPLING LOG

Project Number	2014.0025	Date	5/30/14
Project Name	Square-D	Site/Well No.	MW-21
Project Location	Knightdale	Weather Conditions	75 - cloudy
Time Sampling Began	1040	Time Sampling Ended	11:00

WELL DEPTH AND WATER VOLUME CALCULATIONS

Description of Measuring Point TOC

x Depth to Water Below MP 10.55 ft.

WELL PURGING AND DO MEASUREMENT

[x] Check Box if required. x Dissolved Oxygen Reading 1.51 mg/L.

SAMPLING DATA / FIELD PARAMETERS

[x]	Time of Measurement	1045	1050	1055	1100			
[x]	Purge Rate	350 ml/m	→					
[x]	pH	8.29	8.41	8.43	8.45			
[x]	Spec. Conductance	337	338	339	341			
[x]	Temperature (°C/°F)	16.58	16.62	16.63	16.61			
[x]	Turbidity (NTUs)	12.4	9.7	6.81	6.13			
[x]	REDOX (mv)	-42.2	-44.6	-47.3	-49.8			
[x]	Other Water Level	10.58	10.61	10.57	10.58			
[ ]	Other							
[ ]	Odor (Subjective)							
[ ]	Color (Subjective)							

Comments: Sample time: 11:00

SAMPLING METHOD

Bailer, Submersible Pump, etc. Well wizzard

ANALYTICAL AND CONTAINER INFORMATION

Analyses	Container Type (Lab Inventory)	Preservative
8260	3 x 40 ml VOA	HCL

Remarks:

SAMPLING PERSONNEL

1. S. JARVAH 2. 3.
4. 5. 6.

APPENDIX C CALCULATIONS
Water Level (May 2014) and Well Screen Data

Well Number	Water Level (ft amsl)	Top of Casing	Midpoint of Saturated Screen	Top of Screen	Bottom of Screen	Screen Midpoint
	Elevation			Depth from Top of Casing		
MW-1	342.48	351.81	299.31	50	55	52.5
MW-14	326.55	347.43	321.99	20	30	25
MW-5	271.56	281.32	243.82	35	40	37.5
MW-11	269.82	278.24	266.43	5.3	15.2	10.25
MW-19	267.87	278.21	209.21	61.5	76.5	69
MW-21	267.76	278.31	178.31	95	105	100
MW-12	269.36	276.79	266.43	3.6	13.3	8.45
MW-17	268.09	277.59	217.79	52.3	67.3	59.8
MW-20	267.50	276.88	176.38	95.5	105.5	100.5

Water Table Gradient Calculations

MW-14 to MW-12: (MW-14 Elevation - MW-12 Elevation) / (Distance MW-14 to MW-12) = (326.55 - 269.36) / 1410.0 = 0.041 ft/ft

MW-14 to MW-5: (MW-14 Elevation - MW-5 Elevation) / (Distance MW-14 to MW-5) = (326.55 - 271.56) / 1540.0 = 0.036 ft/ft

Avg. Water Table Gradient is: = 0.038 ft/ft

Bedrock Aquifer Gradient Calculations

MW-1 to MW-17: (MW-1 Elevation - MW-17 Elevation) / (Distance MW-1 to MW-17) = (342.48 - 268.09) / 1690.0 = 0.044 ft/ft

Avg. Bedrock Aquifer Gradient is: = 0.044 ft/ft

Vertical Gradient Calculations

MW-11 to MW-19	MW-11 Elevation - MW-19 Elevation / Distance MW-11 to MW-19 Midpoint	=	269.82 - 267.87 / 266.43 - 209.21	=	0.034 ft/ft	(Downward Gradient)
MW-19 to MW-21	MW-19 Elevation - MW-21 Elevation / Distance MW-19 to MW-21 Midpoint	=	267.87 - 267.76 / 209.21 - 178.31	=	0.004 ft/ft	(Downward Gradient)
MW-11 to MW-21	MW-11 Elevation - MW-21 Elevation / Distance MW-11 to MW-21 Midpoint	=	269.82 - 267.76 / 266.43 - 178.31	=	0.023 ft/ft	(Downward Gradient)
MW-12 to MW-17	MW-12 Elevation - MW-17 Elevation / Distance MW-12 to MW-17 Midpoint	=	269.36 - 268.09 / 266.43 - 217.79	=	0.026 ft/ft	(Downward Gradient)
MW-17 to MW-20	MW-17 Elevation - MW-20 Elevation / Distance MW-17 to MW-20 Midpoint	=	268.09 - 267.50 / 217.79 - 176.38	=	0.014 ft/ft	(Downward Gradient)
MW-12 to MW-20	MW-12 Elevation - MW-20 Elevation / Distance MW-12 to MW-20 Midpoint	=	269.36 - 267.50 / 266.43 - 176.38	=	0.021 ft/ft	(Downward Gradient)

Average Vertical Gradient Shallow to Intermediate Wells : 0.030 ft/ft (Downward Gradient)
Average Vertical Gradient Intermediate to Deep Wells : 0.009 ft/ft (Downward Gradient)
Average Vertical Gradient for Shallow to Deep Wells: 0.022 ft/ft (Downward Gradient)

Water Level (May 2014) and Piezometer Data

Piezometer Number	GW Elevation	Surface Water Elevation	Top of Casing
P-1	267.41	266.93	270.19
P-2	267.76	267.38	268.56
P-3	270.22	268.06	271.40
P-4	268.01	264.18	268.34

Vertical Gradient in Piezometers Calculations

P-1 to Surface Water	Surface Water Elevation - P-1 Elevation	=	266.93 - 267.41	=	-0.48	(Upward Gradient)
P-2 to Surface Water	Surface Water Elevation - P-2 Elevation	=	267.38 - 267.76	=	-0.38	(Upward Gradient)
P-3 to Surface Water	Surface Water Elevation - P-3 Elevation	=	268.06 - 270.22	=	-2.16	(Upward Gradient)
P-4 to Surface Water	Surface Water Elevation - P-4 Elevation	=	264.18 - 268.01	=	-3.83	(Upward Gradient)

APPENDIX D

LABORATORY ANALYTICAL REPORT

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Huntersville, NC 28078
(704)875-9092

June 18, 2014

Mr.Rakesh Patel
Schneider Electric
5985 McLaughlin Road
Mississauga, Ontario, L5R1B8

RE: Project: 2014.0025
Pace Project No.: 92203456

Dear Mr.Rakesh Patel:
Enclosed are the analytical results for sample(s) received by the laboratory on May 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.

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

The laboratory report is being resubmitted on June 18, 2014. The client information was updated.

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

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

cc: Mr. Tony Lieberman, Solutions-IES

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CERTIFICATIONS

Project: 2014.0025
Pace Project No.: 92203456

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

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SAMPLE ANALYTE COUNT

Project: 2014.0025
Pace Project No.: 92203456

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92203456001	SG-1	EPA 8260	MCK	63	PASI-C
92203456002	P-2	EPA 8260	MCK	63	PASI-C
92203456003	MW-21	EPA 8260	MCK	63	PASI-C
92203456004	MW-19	EPA 8260	MCK	63	PASI-C
92203456005	MW-11	EPA 8270 by SIM	RES	1	PASI-C
		EPA 8260	MCK	63	PASI-C
92203456006	MW-20	EPA 8260	MCK	63	PASI-C
92203456007	MW-17	EPA 8270 by SIM	RES	1	PASI-C
		EPA 8260	MCK	63	PASI-C
92203456008	MW-12	EPA 8270 by SIM	RES	1	PASI-C
		EPA 8260	MCK	63	PASI-C
92203456009	MW-3	EPA 8260	MCK	63	PASI-C
92203456010	MW-5	EPA 8260	MCK	63	PASI-C
92203456011	FB-1	EPA 8270 by SIM	RES	1	PASI-C
		EPA 8260	MCK	63	PASI-C
1456012	DUP-1	EPA 8270 by SIM	RES	1	PASI-C
		EPA 8260	MCK	63	PASI-C
92203456013	Trip Blank	EPA 8260	MCK	63	PASI-C

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: SG-1 **Lab ID: 92203456001** Collected: 05/30/14 09:30 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/05/14 15:32	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/14 15:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/05/14 15:32	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/05/14 15:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/05/14 15:32	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/05/14 15:32	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/05/14 15:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/14 15:32	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/14 15:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/05/14 15:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/05/14 15:32	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/05/14 15:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/05/14 15:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 15:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 15:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/14 15:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/05/14 15:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/14 15:32	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/05/14 15:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 15:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 15:32	541-73-1	
1,4-Dichlorobenzene	**12.4**	ug/L	1.0	1		06/05/14 15:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/14 15:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/05/14 15:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/14 15:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/05/14 15:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 15:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 15:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 15:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/14 15:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 15:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/14 15:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 15:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 15:32	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/05/14 15:32	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/05/14 15:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/14 15:32	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/05/14 15:32	591-78-6	
p-Isopropyltoluene	**10.3**	ug/L	1.0	1		06/05/14 15:32	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/05/14 15:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/14 15:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/14 15:32	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/05/14 15:32	91-20-3	
Styrene	ND	ug/L	1.0	1		06/05/14 15:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 15:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 15:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/14 15:32	127-18-4	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: SG-1 **Lab ID: 92203456001** Collected: 05/30/14 09:30 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		06/05/14 15:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 15:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 15:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/14 15:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/14 15:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/14 15:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/05/14 15:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/14 15:32	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/05/14 15:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/05/14 15:32	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		06/05/14 15:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/05/14 15:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/05/14 15:32	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/05/14 15:32	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		06/05/14 15:32	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		06/05/14 15:32	2037-26-5	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: P-2 **Lab ID: 92203456002** Collected: 05/30/14 10:00 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/05/14 15:49	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/14 15:49	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/05/14 15:49	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/05/14 15:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/05/14 15:49	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/05/14 15:49	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/05/14 15:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/14 15:49	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/14 15:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/05/14 15:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/05/14 15:49	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/05/14 15:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/05/14 15:49	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 15:49	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 15:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/14 15:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/05/14 15:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/14 15:49	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/05/14 15:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 15:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 15:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 15:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/14 15:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/05/14 15:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/14 15:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/05/14 15:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 15:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 15:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 15:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/14 15:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 15:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/14 15:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 15:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 15:49	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/05/14 15:49	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/05/14 15:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/14 15:49	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/05/14 15:49	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/05/14 15:49	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/05/14 15:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/14 15:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/14 15:49	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/05/14 15:49	91-20-3	
Styrene	ND	ug/L	1.0	1		06/05/14 15:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 15:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 15:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/14 15:49	127-18-4	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: P-2 **Lab ID: 92203456002** Collected: 05/30/14 10:00 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		06/05/14 15:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 15:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 15:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/14 15:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/14 15:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/14 15:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/05/14 15:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/14 15:49	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/05/14 15:49	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/05/14 15:49	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		06/05/14 15:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/05/14 15:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/05/14 15:49	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/05/14 15:49	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		06/05/14 15:49	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		06/05/14 15:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: MW-21 **Lab ID: 92203456003** Collected: 05/30/14 11:00 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/05/14 16:05	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/14 16:05	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/05/14 16:05	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/05/14 16:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/05/14 16:05	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/05/14 16:05	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/05/14 16:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/14 16:05	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/14 16:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/05/14 16:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/05/14 16:05	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/05/14 16:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/05/14 16:05	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 16:05	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 16:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/14 16:05	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/05/14 16:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/14 16:05	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/05/14 16:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/14 16:05	75-71-8	
1,1-Dichloroethane	**3.5**	ug/L	1.0	1		06/05/14 16:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/14 16:05	107-06-2	
1,1-Dichloroethene	**2.2**	ug/L	1.0	1		06/05/14 16:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 16:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 16:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 16:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/14 16:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 16:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/14 16:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 16:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 16:05	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/05/14 16:05	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/05/14 16:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/14 16:05	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/05/14 16:05	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/05/14 16:05	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/05/14 16:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/14 16:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/14 16:05	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/05/14 16:05	91-20-3	
Styrene	ND	ug/L	1.0	1		06/05/14 16:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 16:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 16:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/14 16:05	127-18-4	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: MW-21 **Lab ID: 92203456003** Collected: 05/30/14 11:00 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		06/05/14 16:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/14 16:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/14 16:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/14 16:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/05/14 16:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/14 16:05	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/05/14 16:05	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/05/14 16:05	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		06/05/14 16:05	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/05/14 16:05	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/05/14 16:05	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/05/14 16:05	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		06/05/14 16:05	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		06/05/14 16:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: MW-19 **Lab ID: 92203456004** Collected: 05/30/14 11:30 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/05/14 16:21	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/14 16:21	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/05/14 16:21	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/05/14 16:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/05/14 16:21	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/05/14 16:21	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/05/14 16:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/14 16:21	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/14 16:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/05/14 16:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/05/14 16:21	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/05/14 16:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/05/14 16:21	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 16:21	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 16:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/14 16:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/05/14 16:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/14 16:21	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/05/14 16:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/14 16:21	75-71-8	
1,1-Dichloroethane	**6.1**	ug/L	1.0	1		06/05/14 16:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/14 16:21	107-06-2	
1,1-Dichloroethene	**4.2**	ug/L	1.0	1		06/05/14 16:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 16:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 16:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 16:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/14 16:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 16:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/14 16:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 16:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 16:21	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/05/14 16:21	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/05/14 16:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/14 16:21	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/05/14 16:21	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/05/14 16:21	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/05/14 16:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/14 16:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/14 16:21	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/05/14 16:21	91-20-3	
Styrene	ND	ug/L	1.0	1		06/05/14 16:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 16:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 16:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/14 16:21	127-18-4	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: MW-19 **Lab ID: 92203456004** Collected: 05/30/14 11:30 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		06/05/14 16:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/14 16:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/14 16:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/14 16:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/05/14 16:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/14 16:21	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/05/14 16:21	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/05/14 16:21	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		06/05/14 16:21	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/05/14 16:21	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/05/14 16:21	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/05/14 16:21	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		06/05/14 16:21	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		06/05/14 16:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: MW-11 **Lab ID: 92203456005** Collected: 05/30/14 11:55 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV 1,4 Dioxane SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
1,4-Dioxane (p-Dioxane)	ND	ug/L	3.0	1	06/05/14 11:20	06/12/14 09:15	123-91-1	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/05/14 16:37	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/14 16:37	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/05/14 16:37	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/05/14 16:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/05/14 16:37	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/05/14 16:37	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/05/14 16:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/14 16:37	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/14 16:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/05/14 16:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/05/14 16:37	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/05/14 16:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/05/14 16:37	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 16:37	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 16:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/14 16:37	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/05/14 16:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/14 16:37	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/05/14 16:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/14 16:37	75-71-8	
1,1-Dichloroethane	**1.7**	ug/L	1.0	1		06/05/14 16:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/14 16:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/05/14 16:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 16:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 16:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 16:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/14 16:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 16:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/14 16:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 16:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 16:37	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/05/14 16:37	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/05/14 16:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/14 16:37	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/05/14 16:37	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/05/14 16:37	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/05/14 16:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/14 16:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/14 16:37	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/05/14 16:37	91-20-3	
Styrene	ND	ug/L	1.0	1		06/05/14 16:37	100-42-5	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: MW-11 **Lab ID: 92203456005** Collected: 05/30/14 11:55 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 16:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 16:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/14 16:37	127-18-4	
Toluene	ND	ug/L	1.0	1		06/05/14 16:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/14 16:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/14 16:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/14 16:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/05/14 16:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/14 16:37	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/05/14 16:37	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/05/14 16:37	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		06/05/14 16:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/05/14 16:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/05/14 16:37	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/05/14 16:37	460-00-4	
:hloroethane-d4 (S)	101	%	70-130	1		06/05/14 16:37	17060-07-0	
,e-d8 (S)	95	%	70-130	1		06/05/14 16:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: MW-20 **Lab ID: 92203456006** Collected: 05/30/14 12:35 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/05/14 16:54	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/14 16:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/05/14 16:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/05/14 16:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/05/14 16:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/05/14 16:54	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/05/14 16:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/14 16:54	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/14 16:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/05/14 16:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/05/14 16:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/05/14 16:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/05/14 16:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 16:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 16:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/14 16:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/05/14 16:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/14 16:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/05/14 16:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/14 16:54	75-71-8	
1,1-Dichloroethane	**6.9**	ug/L	1.0	1		06/05/14 16:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/14 16:54	107-06-2	
1,1-Dichloroethene	**8.0**	ug/L	1.0	1		06/05/14 16:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 16:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 16:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 16:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/14 16:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 16:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/14 16:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 16:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 16:54	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/05/14 16:54	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/05/14 16:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/14 16:54	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/05/14 16:54	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/05/14 16:54	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/05/14 16:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/14 16:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/14 16:54	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/05/14 16:54	91-20-3	
Styrene	ND	ug/L	1.0	1		06/05/14 16:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 16:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 16:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/14 16:54	127-18-4	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: MW-20 **Lab ID: 92203456006** Collected: 05/30/14 12:35 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		06/05/14 16:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 16:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/14 16:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/14 16:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/14 16:54	79-01-6	
Trichlorofluoromethane	**1.1**	ug/L	1.0	1		06/05/14 16:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/14 16:54	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/05/14 16:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/05/14 16:54	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		06/05/14 16:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/05/14 16:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/05/14 16:54	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		06/05/14 16:54	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		06/05/14 16:54	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		06/05/14 16:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: MW-17 **Lab ID: 92203456007** Collected: 05/30/14 13:00 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV 1,4 Dioxane SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
1,4-Dioxane (p-Dioxane)	**7.6**	ug/L	3.0	1	06/05/14 11:20	06/12/14 09:34	123-91-1	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/05/14 17:10	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/14 17:10	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/05/14 17:10	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/05/14 17:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/05/14 17:10	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/05/14 17:10	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/05/14 17:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/14 17:10	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/14 17:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/05/14 17:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/05/14 17:10	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/05/14 17:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/05/14 17:10	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 17:10	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 17:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/14 17:10	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/05/14 17:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/14 17:10	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/05/14 17:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/14 17:10	75-71-8	
1,1-Dichloroethane	**4.5**	ug/L	1.0	1		06/05/14 17:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/14 17:10	107-06-2	
1,1-Dichloroethene	**4.8**	ug/L	1.0	1		06/05/14 17:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 17:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 17:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 17:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/14 17:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 17:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/14 17:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 17:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 17:10	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/05/14 17:10	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/05/14 17:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/14 17:10	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/05/14 17:10	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/05/14 17:10	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/05/14 17:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/14 17:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/14 17:10	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/05/14 17:10	91-20-3	
Styrene	ND	ug/L	1.0	1		06/05/14 17:10	100-42-5	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: MW-17 **Lab ID: 92203456007** Collected: 05/30/14 13:00 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 17:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 17:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/14 17:10	127-18-4	
Toluene	ND	ug/L	1.0	1		06/05/14 17:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/14 17:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/14 17:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/14 17:10	79-01-6	
Trichlorofluoromethane	**1.8**	ug/L	1.0	1		06/05/14 17:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/14 17:10	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/05/14 17:10	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/05/14 17:10	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		06/05/14 17:10	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/05/14 17:10	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/05/14 17:10	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/05/14 17:10	460-00-4	
ichloroethane-d4 (S)	101	%	70-130	1		06/05/14 17:10	17060-07-0	
ne-d8 (S)	95	%	70-130	1		06/05/14 17:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: MW-12 **Lab ID: 92203456008** Collected: 05/30/14 13:30 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV 1,4 Dioxane SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
1,4-Dioxane (p-Dioxane)	**5.2**	ug/L	3.0	1	06/05/14 11:20	06/12/14 09:53	123-91-1	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/05/14 17:26	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/14 17:26	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/05/14 17:26	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/05/14 17:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/05/14 17:26	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/05/14 17:26	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/05/14 17:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/14 17:26	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/14 17:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/05/14 17:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/05/14 17:26	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/05/14 17:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/05/14 17:26	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 17:26	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 17:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/14 17:26	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/05/14 17:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/14 17:26	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/05/14 17:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/14 17:26	75-71-8	
1,1-Dichloroethane	**1.4**	ug/L	1.0	1		06/05/14 17:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/14 17:26	107-06-2	
1,1-Dichloroethene	**1.5**	ug/L	1.0	1		06/05/14 17:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 17:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 17:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 17:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/14 17:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 17:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/14 17:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 17:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 17:26	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/05/14 17:26	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/05/14 17:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/14 17:26	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/05/14 17:26	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/05/14 17:26	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/05/14 17:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/14 17:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/14 17:26	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/05/14 17:26	91-20-3	
Styrene	ND	ug/L	1.0	1		06/05/14 17:26	100-42-5	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: MW-12 **Lab ID: 92203456008** Collected: 05/30/14 13:30 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 17:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 17:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/14 17:26	127-18-4	
Toluene	ND	ug/L	1.0	1		06/05/14 17:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/14 17:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/14 17:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/14 17:26	79-01-6	
Trichlorofluoromethane	**2.6**	ug/L	1.0	1		06/05/14 17:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/14 17:26	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/05/14 17:26	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/05/14 17:26	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		06/05/14 17:26	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/05/14 17:26	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/05/14 17:26	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/05/14 17:26	460-00-4	
chloroethane-d4 (S)	100	%	70-130	1		06/05/14 17:26	17060-07-0	
ıe-d8 (S)	96	%	70-130	1		06/05/14 17:26	2037-26-5	

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

ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: MW-3 **Lab ID: 92203456009** Collected: 05/30/14 13:05 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/05/14 17:42	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/14 17:42	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/05/14 17:42	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/05/14 17:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/05/14 17:42	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/05/14 17:42	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/05/14 17:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/14 17:42	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/14 17:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/05/14 17:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/05/14 17:42	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/05/14 17:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/05/14 17:42	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 17:42	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 17:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/14 17:42	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/05/14 17:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/14 17:42	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/05/14 17:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/14 17:42	75-71-8	
1,1-Dichloroethane	**14.1**	ug/L	1.0	1		06/05/14 17:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/14 17:42	107-06-2	
1,1-Dichloroethene	**7.5**	ug/L	1.0	1		06/05/14 17:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 17:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 17:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 17:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/14 17:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 17:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/14 17:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 17:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 17:42	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/05/14 17:42	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/05/14 17:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/14 17:42	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/05/14 17:42	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/05/14 17:42	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/05/14 17:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/14 17:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/14 17:42	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/05/14 17:42	91-20-3	
Styrene	ND	ug/L	1.0	1		06/05/14 17:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 17:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 17:42	79-34-5	
Tetrachloroethene	**1.1**	ug/L	1.0	1		06/05/14 17:42	127-18-4	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: MW-3 **Lab ID: 92203456009** Collected: 05/30/14 13:05 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		06/05/14 17:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/14 17:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/14 17:42	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/14 17:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/05/14 17:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/14 17:42	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/05/14 17:42	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/05/14 17:42	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		06/05/14 17:42	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/05/14 17:42	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/05/14 17:42	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/05/14 17:42	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		06/05/14 17:42	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		06/05/14 17:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: MW-5 **Lab ID: 92203456010** Collected: 05/30/14 13:45 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/05/14 17:58	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/14 17:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/05/14 17:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/05/14 17:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/05/14 17:58	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/05/14 17:58	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/05/14 17:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/14 17:58	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/14 17:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/05/14 17:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/05/14 17:58	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/05/14 17:58	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/05/14 17:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 17:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 17:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/14 17:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/05/14 17:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/14 17:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/05/14 17:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/14 17:58	75-71-8	
1,1-Dichloroethane	**5.1**	ug/L	1.0	1		06/05/14 17:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/14 17:58	107-06-2	
1,1-Dichloroethene	**3.2**	ug/L	1.0	1		06/05/14 17:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 17:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 17:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 17:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/14 17:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 17:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/14 17:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 17:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 17:58	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/05/14 17:58	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/05/14 17:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/14 17:58	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/05/14 17:58	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/05/14 17:58	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/05/14 17:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/14 17:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/14 17:58	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/05/14 17:58	91-20-3	
Styrene	ND	ug/L	1.0	1		06/05/14 17:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 17:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 17:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/14 17:58	127-18-4	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: MW-5 **Lab ID: 92203456010** Collected: 05/30/14 13:45 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		06/05/14 17:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 17:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/14 17:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/14 17:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/14 17:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/05/14 17:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/14 17:58	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/05/14 17:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/05/14 17:58	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		06/05/14 17:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/05/14 17:58	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/05/14 17:58	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/05/14 17:58	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		06/05/14 17:58	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		06/05/14 17:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: FB-1 **Lab ID: 92203456011** Collected: 05/30/14 13:55 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV 1,4 Dioxane SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
1,4-Dioxane (p-Dioxane)	ND	ug/L	3.0	1	06/05/14 11:20	06/12/14 10:49	123-91-1	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/05/14 18:14	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/14 18:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/05/14 18:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/05/14 18:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/05/14 18:14	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/05/14 18:14	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/05/14 18:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/14 18:14	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/14 18:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/05/14 18:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/05/14 18:14	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/05/14 18:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/05/14 18:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 18:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 18:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/14 18:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/05/14 18:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/14 18:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/05/14 18:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 18:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 18:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 18:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/14 18:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/05/14 18:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/14 18:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/05/14 18:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 18:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 18:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 18:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/14 18:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 18:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/14 18:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 18:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 18:14	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/05/14 18:14	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/05/14 18:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/14 18:14	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/05/14 18:14	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/05/14 18:14	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/05/14 18:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/14 18:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/14 18:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/05/14 18:14	91-20-3	
Styrene	ND	ug/L	1.0	1		06/05/14 18:14	100-42-5	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: FB-1 **Lab ID: 92203456011** Collected: 05/30/14 13:55 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 18:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 18:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/14 18:14	127-18-4	
Toluene	ND	ug/L	1.0	1		06/05/14 18:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 18:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 18:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/14 18:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/14 18:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/14 18:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/05/14 18:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/14 18:14	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/05/14 18:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/05/14 18:14	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		06/05/14 18:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/05/14 18:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/05/14 18:14	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/05/14 18:14	460-00-4	
chloroethane-d4 (S)	102	%	70-130	1		06/05/14 18:14	17060-07-0	
ıe-d8 (S)	96	%	70-130	1		06/05/14 18:14	2037-26-5	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: DUP-1 **Lab ID: 92203456012** Collected: 05/30/14 00:00 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV 1,4 Dioxane SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
1,4-Dioxane (p-Dioxane)	**5.3**	ug/L	3.0	1	06/05/14 11:20	06/12/14 11:07	123-91-1	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/05/14 18:30	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/14 18:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/05/14 18:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/05/14 18:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/05/14 18:30	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/05/14 18:30	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/05/14 18:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/14 18:30	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/14 18:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/05/14 18:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/05/14 18:30	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/05/14 18:30	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/05/14 18:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 18:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 18:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/14 18:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/05/14 18:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/14 18:30	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/05/14 18:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 18:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 18:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 18:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/14 18:30	75-71-8	
1,1-Dichloroethane	**1.5**	ug/L	1.0	1		06/05/14 18:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/14 18:30	107-06-2	
1,1-Dichloroethene	**1.5**	ug/L	1.0	1		06/05/14 18:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 18:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 18:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 18:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/14 18:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 18:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/14 18:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 18:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 18:30	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/05/14 18:30	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/05/14 18:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/14 18:30	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/05/14 18:30	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/05/14 18:30	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/05/14 18:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/14 18:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/14 18:30	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/05/14 18:30	91-20-3	
Styrene	ND	ug/L	1.0	1		06/05/14 18:30	100-42-5	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: DUP-1 **Lab ID: 92203456012** Collected: 05/30/14 00:00 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 18:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 18:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/14 18:30	127-18-4	
Toluene	ND	ug/L	1.0	1		06/05/14 18:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 18:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 18:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/14 18:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/14 18:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/14 18:30	79-01-6	
Trichlorofluoromethane	**2.7**	ug/L	1.0	1		06/05/14 18:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/14 18:30	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/05/14 18:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/05/14 18:30	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		06/05/14 18:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/05/14 18:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/05/14 18:30	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/05/14 18:30	460-00-4	
ichloroethane-d4 (S)	97	%	70-130	1		06/05/14 18:30	17060-07-0	
ne-d8 (S)	96	%	70-130	1		06/05/14 18:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: Trip Blank **Lab ID: 92203456013** Collected: 05/30/14 00:00 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/05/14 18:47	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/14 18:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/05/14 18:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/05/14 18:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/05/14 18:47	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/05/14 18:47	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/05/14 18:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/14 18:47	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/14 18:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/05/14 18:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/05/14 18:47	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/05/14 18:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/05/14 18:47	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 18:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/14 18:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/14 18:47	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/05/14 18:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/14 18:47	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/05/14 18:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 18:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 18:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/05/14 18:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/14 18:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/05/14 18:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/14 18:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/05/14 18:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 18:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/14 18:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 18:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/14 18:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/14 18:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/14 18:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 18:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/14 18:47	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/05/14 18:47	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/05/14 18:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/14 18:47	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/05/14 18:47	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/05/14 18:47	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/05/14 18:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/14 18:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/14 18:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/05/14 18:47	91-20-3	
Styrene	ND	ug/L	1.0	1		06/05/14 18:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 18:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/14 18:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/14 18:47	127-18-4	

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ANALYTICAL RESULTS

Project: 2014.0025
Pace Project No.: 92203456

Sample: Trip Blank **Lab ID: 92203456013** Collected: 05/30/14 00:00 Received: 05/30/14 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		06/05/14 18:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 18:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/14 18:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/14 18:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/14 18:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/14 18:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/05/14 18:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/14 18:47	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/05/14 18:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/05/14 18:47	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		06/05/14 18:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/05/14 18:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/05/14 18:47	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/05/14 18:47	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		06/05/14 18:47	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		06/05/14 18:47	2037-26-5	

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QUALITY CONTROL DATA

Project: 2014.0025
Pace Project No.: 92203456

QC Batch: MSV/27100 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92203456001, 92203456002, 92203456003, 92203456004, 92203456005, 92203456006, 92203456007, 92203456008, 92203456009, 92203456010, 92203456011, 92203456012, 92203456013

METHOD BLANK: 1214855 Matrix: Water
Associated Lab Samples: 92203456001, 92203456002, 92203456003, 92203456004, 92203456005, 92203456006, 92203456007, 92203456008, 92203456009, 92203456010, 92203456011, 92203456012, 92203456013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/05/14 14:12	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/05/14 14:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/05/14 14:12	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/05/14 14:12	
1,1-Dichloroethane	ug/L	ND	1.0	06/05/14 14:12	
1,1-Dichloroethene	ug/L	ND	1.0	06/05/14 14:12	
1,1-Dichloropropene	ug/L	ND	1.0	06/05/14 14:12	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/05/14 14:12	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/05/14 14:12	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/05/14 14:12	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/05/14 14:12	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/05/14 14:12	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/05/14 14:12	
1,2-Dichloroethane	ug/L	ND	1.0	06/05/14 14:12	
1,2-Dichloropropane	ug/L	ND	1.0	06/05/14 14:12	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/05/14 14:12	
1,3-Dichloropropane	ug/L	ND	1.0	06/05/14 14:12	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/05/14 14:12	
2,2-Dichloropropane	ug/L	ND	1.0	06/05/14 14:12	
2-Butanone (MEK)	ug/L	ND	5.0	06/05/14 14:12	
2-Chlorotoluene	ug/L	ND	1.0	06/05/14 14:12	
2-Hexanone	ug/L	ND	5.0	06/05/14 14:12	
4-Chlorotoluene	ug/L	ND	1.0	06/05/14 14:12	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/05/14 14:12	
Acetone	ug/L	ND	25.0	06/05/14 14:12	
Benzene	ug/L	ND	1.0	06/05/14 14:12	
Bromobenzene	ug/L	ND	1.0	06/05/14 14:12	
Bromochloromethane	ug/L	ND	1.0	06/05/14 14:12	
Bromodichloromethane	ug/L	ND	1.0	06/05/14 14:12	
Bromoform	ug/L	ND	1.0	06/05/14 14:12	
Bromomethane	ug/L	ND	2.0	06/05/14 14:12	
Carbon tetrachloride	ug/L	ND	1.0	06/05/14 14:12	
Chlorobenzene	ug/L	ND	1.0	06/05/14 14:12	
Chloroethane	ug/L	ND	1.0	06/05/14 14:12	
Chloroform	ug/L	ND	1.0	06/05/14 14:12	
Chloromethane	ug/L	ND	1.0	06/05/14 14:12	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/05/14 14:12	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/05/14 14:12	
Dibromochloromethane	ug/L	ND	1.0	06/05/14 14:12	
Dibromomethane	ug/L	ND	1.0	06/05/14 14:12	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 2014.0025
Pace Project No.: 92203456

METHOD BLANK: 1214855 Matrix: Water

Associated Lab Samples: 92203456001, 92203456002, 92203456003, 92203456004, 92203456005, 92203456006, 92203456007, 92203456008, 92203456009, 92203456010, 92203456011, 92203456012, 92203456013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	06/05/14 14:12	
Diisopropyl ether	ug/L	ND	1.0	06/05/14 14:12	
Ethylbenzene	ug/L	ND	1.0	06/05/14 14:12	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/05/14 14:12	
m&p-Xylene	ug/L	ND	2.0	06/05/14 14:12	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/05/14 14:12	
Methylene Chloride	ug/L	ND	2.0	06/05/14 14:12	
Naphthalene	ug/L	ND	1.0	06/05/14 14:12	
o-Xylene	ug/L	ND	1.0	06/05/14 14:12	
p-Isopropyltoluene	ug/L	ND	1.0	06/05/14 14:12	
Styrene	ug/L	ND	1.0	06/05/14 14:12	
Tetrachloroethene	ug/L	ND	1.0	06/05/14 14:12	
Toluene	ug/L	ND	1.0	06/05/14 14:12	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/05/14 14:12	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/05/14 14:12	
Trichloroethene	ug/L	ND	1.0	06/05/14 14:12	
Trichlorofluoromethane	ug/L	ND	1.0	06/05/14 14:12	
acetate	ug/L	ND	2.0	06/05/14 14:12	
chloride	ug/L	ND	1.0	06/05/14 14:12	
Xylene (Total)	ug/L	ND	2.0	06/05/14 14:12	
1,2-Dichloroethane-d4 (S)	%	98	70-130	06/05/14 14:12	
4-Bromofluorobenzene (S)	%	102	70-130	06/05/14 14:12	
Toluene-d8 (S)	%	96	70-130	06/05/14 14:12	

LABORATORY CONTROL SAMPLE: 1214856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	58.0	116	70-130	
1,1,1-Trichloroethane	ug/L	50	53.4	107	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.7	103	70-130	
1,1,2-Trichloroethane	ug/L	50	53.3	107	70-130	
1,1-Dichloroethane	ug/L	50	47.7	95	70-130	
1,1-Dichloroethene	ug/L	50	48.7	97	70-132	
1,1-Dichloropropene	ug/L	50	53.1	106	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.8	102	70-135	
1,2,3-Trichloropropane	ug/L	50	52.6	105	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.5	101	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	44.6	89	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.2	106	70-130	
1,2-Dichlorobenzene	ug/L	50	53.2	106	70-130	
1,2-Dichloroethane	ug/L	50	54.8	110	70-130	
1,2-Dichloropropane	ug/L	50	48.9	98	70-130	
1,3-Dichlorobenzene	ug/L	50	51.2	102	70-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: 2014.0025
Pace Project No.: 92203456

LABORATORY CONTROL SAMPLE: 1214856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	50.3	101	70-130	
1,4-Dichlorobenzene	ug/L	50	51.6	103	70-130	
2,2-Dichloropropane	ug/L	50	54.4	109	58-145	
2-Butanone (MEK)	ug/L	100	90.9	91	70-145	
2-Chlorotoluene	ug/L	50	49.7	99	70-130	
2-Hexanone	ug/L	100	95.9	96	70-144	
4-Chlorotoluene	ug/L	50	47.9	96	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.9	98	70-140	
Acetone	ug/L	100	97.1	97	50-175	
Benzene	ug/L	50	52.9	106	70-130	
Bromobenzene	ug/L	50	50.1	100	70-130	
Bromochloromethane	ug/L	50	53.3	107	70-130	
Bromodichloromethane	ug/L	50	55.8	112	70-130	
Bromoform	ug/L	50	49.6	99	70-130	
Bromomethane	ug/L	50	48.5	97	54-130	
Carbon tetrachloride	ug/L	50	57.3	115	70-132	
Chlorobenzene	ug/L	50	49.7	99	70-130	
Chloroethane	ug/L	50	35.0	70	64-134	
Chloroform	ug/L	50	51.0	102	70-130	
Chloromethane	ug/L	50	45.1	90	64-130	
cis-1,2-Dichloroethene	ug/L	50	48.9	98	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.5	107	70-130	
Dibromochloromethane	ug/L	50	49.5	99	70-130	
Dibromomethane	ug/L	50	54.6	109	70-131	
Dichlorodifluoromethane	ug/L	50	56.4	113	56-130	
Diisopropyl ether	ug/L	50	50.4	101	70-130	
Ethylbenzene	ug/L	50	48.4	97	70-130	
Hexachloro-1,3-butadiene	ug/L	50	48.4	97	70-130	
m&p-Xylene	ug/L	100	98.3	98	70-130	
Methyl-tert-butyl ether	ug/L	50	53.5	107	70-130	
Methylene Chloride	ug/L	50	51.1	102	63-130	
Naphthalene	ug/L	50	50.2	100	70-138	
o-Xylene	ug/L	50	49.7	99	70-130	
p-Isopropyltoluene	ug/L	50	50.2	100	70-130	
Styrene	ug/L	50	51.6	103	70-130	
Tetrachloroethene	ug/L	50	53.7	107	70-130	
Toluene	ug/L	50	51.0	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.5	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	54.5	109	70-132	
Trichloroethene	ug/L	50	56.5	113	70-130	
Trichlorofluoromethane	ug/L	50	50.7	101	62-133	
Vinyl acetate	ug/L	100	106	106	66-157	
Vinyl chloride	ug/L	50	55.1	110	69-130	
Xylene (Total)	ug/L	150	148	99	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 2014.0025
Pace Project No.: 92203456

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1214857 1214858

Parameter	Units	92203957004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	50.1	20.4	100	41	70-166	84	M1,R1
Benzene	ug/L	ND	50	50	54.5	20.5	109	41	70-148	91	M1,R1
Chlorobenzene	ug/L	ND	50	50	51.1	18.7	102	37	70-146	93	M1,R1
Toluene	ug/L	ND	50	50	49.0	18.4	98	37	70-155	91	M1,R1
Trichloroethene	ug/L	ND	50	50	55.7	20.7	111	41	69-151	92	M1,R1
1,2-Dichloroethane-d4 (S)	%						90	89	70-130		
4-Bromofluorobenzene (S)	%						100	97	70-130		
Toluene-d8 (S)	%						99	98	70-130		

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QUALITY CONTROL DATA

Project: 2014.0025
Pace Project No.: 92203456

QC Batch: OEXT/28102 | Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water 1,4 Dioxane by SIM
Associated Lab Samples: 92203456005, 92203456007, 92203456008, 92203456011, 92203456012

METHOD BLANK: 1214595 | Matrix: Water
Associated Lab Samples: 92203456005, 92203456007, 92203456008, 92203456011, 92203456012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	3.0	06/12/14 08:39	

LABORATORY CONTROL SAMPLE: 1214596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	10	11.7	117	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1214597 1214598

Parameter	Units	92203456008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	5.2	20	20	26.9	28.1	109	114	50-150	4	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2014.0025
Pace Project No.: 92203456

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2014.0025
Pace Project No.: 92203456

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92203456005	**MW-11**	EPA 3510	OEXT/28102	EPA 8270 by SIM	MSSV/9234
92203456007	**MW-17**	EPA 3510	OEXT/28102	EPA 8270 by SIM	MSSV/9234
92203456008	**MW-12**	EPA 3510	OEXT/28102	EPA 8270 by SIM	MSSV/9234
92203456011	**FB-1**	EPA 3510	OEXT/28102	EPA 8270 by SIM	MSSV/9234
92203456012	**DUP-1**	EPA 3510	OEXT/28102	EPA 8270 by SIM	MSSV/9234
92203456001	**SG-1**	EPA 8260	MSV/27100		
92203456002	**P-2**	EPA 8260	MSV/27100		
92203456003	**MW-21**	EPA 8260	MSV/27100		
92203456004	**MW-19**	EPA 8260	MSV/27100		
92203456005	**MW-11**	EPA 8260	MSV/27100		
92203456006	**MW-20**	EPA 8260	MSV/27100		
92203456007	**MW-17**	EPA 8260	MSV/27100		
92203456008	**MW-12**	EPA 8260	MSV/27100		
92203456009	**MW-3**	EPA 8260	MSV/27100		
92203456010	**MW-5**	EPA 8260	MSV/27100		
92203456011	**FB-1**	EPA 8260	MSV/27100		
92203456012	**DUP-1**	EPA 8260	MSV/27100		
92203456013	**Trip Blank**	EPA 8260	MSV/27100		

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Pace Analytical www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: April 04, 2013 Page 1 of 2
	Document No.: F-RAL-CS-001-rev.02	Issuing Authorities: Pace Asheville Quality Office

Client Name: Solutions - IES

Where Received: ☐ Huntersville ☐ Asheville ☐ Eden ☑ Raleigh

Courier (Circle): Fed Ex UPS USPS (Client) Commercial Pace Other_____

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

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

Circle Thermometer Used: IR Gun SN:122065387 **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

IR Gun ~~Back Up~~ SN:122065371

Temp Correction Factor: Add / (Subtract) 0.6 C

Corrected Cooler Temp.: 5.7 C **Biological Tissue Is Frozen:** Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents / Preservation check: NMCS 5/30/14

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Client also included 2 temp blank vials but no room to write on back of the SCUR

SCURF /SRF Review:: AMB AMB **Date:** 5-30-14 5-30-14

Place label here

OR

Handwrite project number (If no label available)

92203456

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

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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

1800009

Section A Required Client Information:

Company: Solutions-ies
Address: 1101 Nowell Rd
Raleigh, NC 27607
Email To: t lieberman@solutions-ies.com
Phone: 919-873-1060 Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Tony Lieberman
Copy To: Sean Jarvan
Sjarvan@Solutions-ies.com
Purchase Order No.:
Project Name:
Project Number: 2014.0025

Section C Invoice Information:

Attention: Harry Hyatt
Company Name: Schneider Electric
Address: Hwy 64 Business, Knightdale
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 2246-2

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

Site Location STATE: NC

Section D Required Client Information

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

Requested Analysis Filtered (Y/N)

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 START DATE	START TIME	END/GRAB DATE	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) VOC - 8260 B	Dioxane - 8270	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SG-1			5/30/14	930				3				X					X			001
2	P-2				1000				3				X					X			002
3	MW-21				1100				3				X					X			003
4	MW-19				1130				3				X					X			004
5	MW-11				1155				5	X			X					X	X		005
6	MW-20				1235				3				X					X			006
7	MW-17				1300				5	X			X					X	X		007
8	MW-12				1330				5	X			X					X	X		008
9	MW-3				1305				3				X					X			009
10	MW-5				1345				3				X					X			010
11	FB-1				1355				5	X			X					X	X		011
12	~~Trip Blank~~ DUP-1				—				5	X			X					X	X		012

Pace Project No./ Lab I.D.: 92263456

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
(*) Please Run Trip Blank for 8260 VOC 013	Sean Jarvan Solutions-ies	5/30/14		Nicole Coplen Pace	5/30/14	14:30	5.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Sean Jarvan
SIGNATURE of SAMPLER: Sean Jarvan
DATE Signed (MM/DD/YY): 5/30/14

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

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

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