ENVIRONMENTAL MANAGEMENT SERVICES, INC.

October 3, 2012

Mr. Tony Russell, Chief
Assessment Remediation Branch
Mississippi Department of Environmental Quality
515 East Amite Street
Jackson, Mississippi 39201

Re: 2nd Quarter Groundwater Sampling Report
Kuhlman Electric Corporation
Crystal Springs, Mississippi
EMS Project # KUH0-12-002

Dear Mr. Russell:

On behalf of Kuhlman Electric Corporation (KEC), Environmental Management Services, Inc. (EMS) installed five groundwater monitoring wells in 2011. These wells were installed in accordance with the *Corrective Action Plan, Kuhlman Electric Corporation Facility, Crystal Springs, Mississippi* (CAP), prepared by ARCADIS March 15, 2011, as approved by the Mississippi Department of Environmental Quality (MDEQ) on March 1, 2012. The monitoring well installation activities were conducted from November 8 – 14, 2011. These wells (MW-30 through MW-34) were developed on November 21 and 23, 2011, and are currently sampled on a quarterly basis. Provided below is a summary of the most recent groundwater sampling event.

Monitoring Well Installation

Monitoring wells MW-30 through MW-34 were installed at the locations shown in Figure 1. The wells were installed by Walker Hill Environmental (WHE) using a sonic drill rig. Once borehole logging was completed the appropriate depth for the well screen was determined by the historical contamination data of surrounding monitoring wells and the nature of the subsurface geology identified during the soil boring characterization. The wells were constructed of 2-inch

P.O. BOX 15369 (39404) • 7350 U.S. HIGHWAY 98 • HATTIESBURG, MS 39402
PHONE (601) 544-3674 • FAX (601) 544-0504 • www.env-mgt.com

0.010-inch flush threaded polyvinyl chloride (PVC) factory slotted well screen and flush treaded PVC riser. Each well consists of a 15 foot screened interval. The total depths of the monitoring wells ranged between 75 and 108 feet below ground surface (bgs). Well construction details are included in Table 1.

Groundwater Monitoring System

The newly installed groundwater monitoring wells for the Kuhlman Electric Corporation (KEC) Facility in Crystal Springs, Mississippi (site) were installed to complement the existing network of 38 groundwater monitoring wells, increasing the total number of monitoring wells to 43. Figure 1 depicts the layout of the entire groundwater monitoring well network. Monitoring well MW-30 was installed west of the site across the train tracks and MW-31 was installed on-site. According to the CAP, these two wells will act as corrective action performance monitoring wells and as interior plume trends wells. Monitoring well MW-32 is located hydraulically downgradient from the site on Independence Street between West Georgetown Street and West Marion Avenue. According to the CAP, this well will serve as an interior plume trend monitoring well. Monitoring wells MW-33 and MW-34 are located hydraulically downgradient of the site and outside of the leading edge of the DCE plume. In accordance with the CAP, these wells will serve as sentinel wells. MW-33 is located on West Marion Avenue east of Highway 51 and MW-34 is located along the eastern side of the railroad south of Kirk Street.

Groundwater Sampling

All five new groundwater monitoring wells were sampled on June 27, 2012 and will be sampled on a quarterly schedule for at least one year. The third quarterly sampling event is planned to coincide with the semi-annual sampling event for the other 38 monitoring wells in September, 2012. Groundwater levels observed in the monitor wells were recorded prior to purging and sampling of each well.

At each well, a dedicated pump was used to perform low flow purging and sampling techniques. As requested by the Mississippi Department of Environmental Quality (MDEQ), at least one well volume was purged and groundwater parameters (turbidity, temperature, conductivity, dissolved oxygen, pH, and oxidation reduction potential) were allowed to stabilize, prior to collecting the sample. Field logs for the June 2012 sampling event are included in Attachment 3. Groundwater samples were collected for Volatile Organic Compounds (VOCs) and 1,4-Dioxane (Dioxane).

Following collection, the samples were placed in an ice chest containing a trip blank sample and ice packs and delivered to SGS Analytical Perspectives., located in Wilmington, North Carolina, for analysis.

Quality Assurance/Quality Control

Quality control samples included analysis of a trip blank provided by the laboratory and a blind duplicate. All results for the trip blank sample were below detection limits except for methylene chloride, which was detected below the reporting limit at an estimated concentration of 0.37 µg/L. Methylene chloride is not a constituent of concern (COC) at this site. Well MW-31 was selected for the blind duplicate sample. The blind duplicate sample was labeled BD-1 so as not to be recognizable by the laboratory. The sample was analyzed for VOCs. The relative percent difference (RPD) was calculated for 1,1-Dichloroethene (DCE) using the following formula:

$$RPD_{DCE} = \frac{2(X_S - X_D)}{(X_S + X_D)} = \frac{2(13.2 - 10.5)}{(13.2 + 10.5)} = 22.8\%$$

$$RPD_{Chloroform} = \frac{2(0.250 - 0.240)}{(0.250 + 0.240)} = 4.08\%$$

X_S = *The original sample's contamination level*

X_D = *The duplicate's contamination level*

The RPD calculation was 22.8% for DCE and 4.08% for Chloroform. A copy of the analytical report with chain-of-custody documentation is provided in Attachment 4.

MDEQ was present during both sampling events and obtained split samples from MW-34 and MW-33. MDEQ sent the split samples to their laboratory near Jackson, Mississippi.

Discussion of Results

Table 2 provides a summary of the analytical results for the June 27, 2012 sampling event. The data indicates that DCE was detected above the respective MDEQ Target Remedial Goals (TRGs) of 7.0 µg/L in three monitoring wells (MW-30, MW-31, and MW-32) during the June 27 sampling event. Dioxane was not detected above its respective MDEQ TRG of 6.09 µg/L. DCE was detected above its method detection limit (MDL) in four of the five monitoring wells (MW-30, MW-31, MW-32, and MW-34). Dioxane was detected above its MDL in four of the five monitoring wells (MW-30, MW-31, MW-32, and MW-34).

Other analytes detected during the sampling event include Acetone, Carbon Disulfide, Chloroform, 1,1,1-Trichloroethane, 1,1-Dichloroethane, and Trichloroethene. Of these non-COC analytes Chloroform was the only one detected above its respective MDEQ TRGs. Chloroform was detected above its MDEQ TRG in MW-30 and MW-31 and has been detected once before in each of these two wells. Although it was not detected in the trip blank or lab blank, Acetone, which was detected below its MDEQ TRG in MW-31, is a common cross contamination analyte due to its frequent use as a laboratory cleaning agent. Carbon Disulfide was detected below its MDEQ TRG in MW-31. Based on the extremely low concentration (0.530 µg/L), Carbon Disulfide may be the product of microbial respiration in a low oxygen environment. The other non-COC analytes have intermittingly been detected within the groundwater samples associated with the site.

If you have questions or require additional information, please call the undersigned at (601) 544-3674.

Sincerely,
Environmental Management Services, Inc.

Ethan E. Allen, RPG
Project Geologist

Attachments:
1. Tables
2. Figures
3. Field Logs
4. Analytical Report

cc: Phillip James, KEC
Allen Gearhart, KEC
Melody Christopher, ABB, Inc.
Virginia Munford, CMS

Groundwater Investigation Status Report
Kuhlman Electric Corporation
Crystal Springs, Mississippi
EMS Project KUH0-12-002
October 3, 2012

The field work and report for this project have been prepared by Environmental Management Services, Inc. under the direct supervision of the environmental professional indicated below. To the best of our knowledge all appropriate standards of care and practices were utilized to collect and report the data contained within this document. Services performed were conducted in a manner consistent with that degree of care and skill ordinarily exercised by reputable members of the same profession as practicing in the same locality under similar conditions as exists at the time the service was provided. No other representation, express or implied, and no warranty or guarantee is included or intended in this proposal, or any report, opinion, document or otherwise as a result of, or part of the work, its subcontractors, or vendors.

Prepared By:

Ethan E. Allen, RPG
MS Professional Geologist No. 0759

Date: 10/3/2012

REGISTERED PROFESSIONAL GEOLOGIST
MS
0759
ETHAN E. ALLEN

ATTACHMENT 1

TABLES

Table 1
Groundwater Monitoring Well Construction Data and Elevation Data
June 2012
Kuhlman Electric Corporation
Crystal Springs, Mississippi

MONITORING WELL CONSTRUCTION DETAILS						GROUNDWATER ELEVATION DATA
Well No.	Date Installed	Screen Length (ft)	Screen Interval (ft bgs)	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	GW Elevation Jun-12 (ft msl)
MW-30	11/11/2011	15	70-85	470.03	469.77	404.64
MW-31	11/12/2011	15	60-75	468.27	468.06	404.76
MW-32	11/8/2011	15	80-95	462.88	462.55	402.01
MW-33	11/9/2011	15	85-100	461.13	460.91	401.99
MW-34	11/10/2011	15	93-108	457.36	457.10	396.17

GW = groundwater

ft bgs = feet below ground surface

ft msl = elevation in feet above mean sea level

TABLE 2

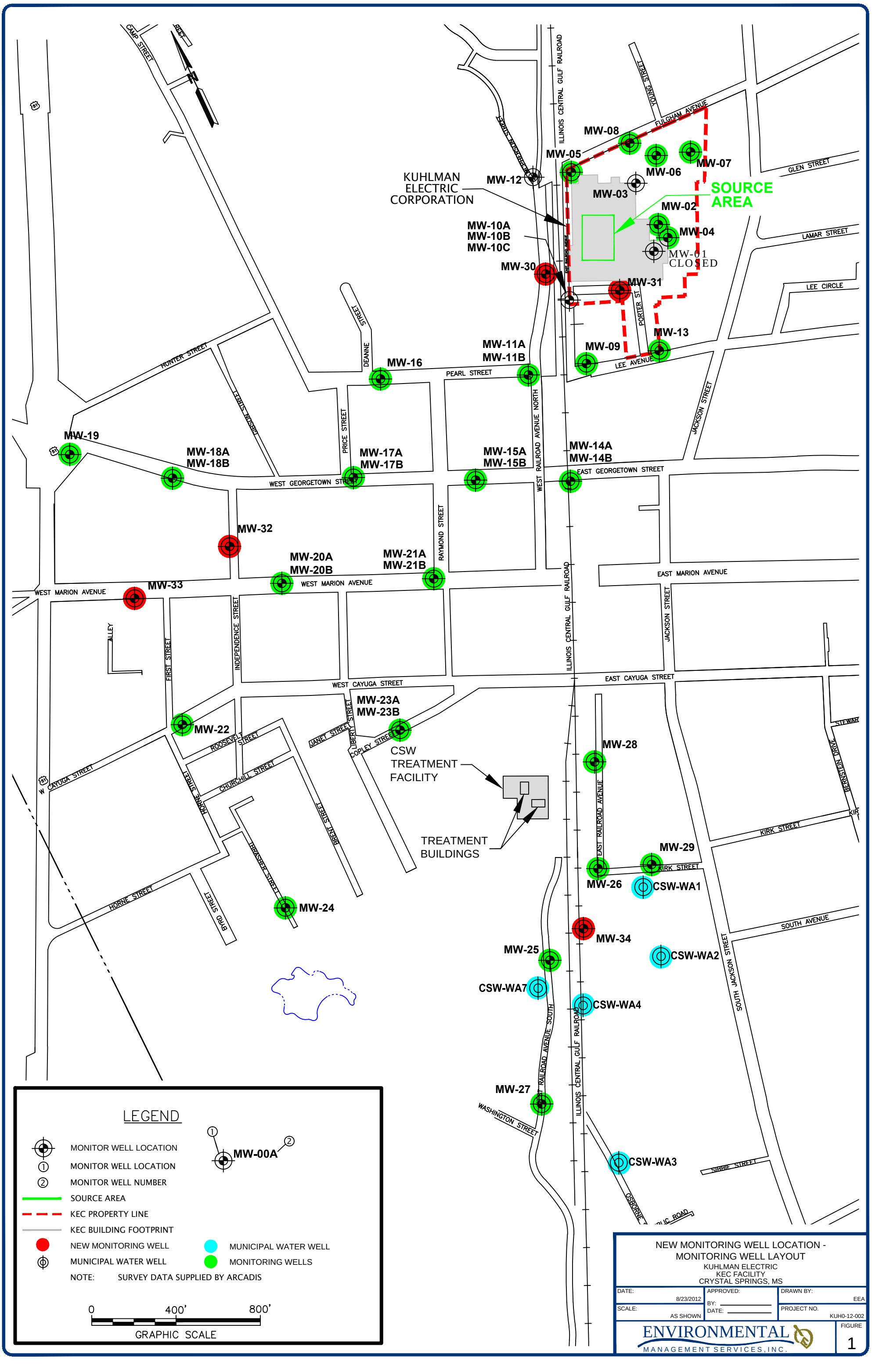
Groundwater Monitoring Results - New Monitoring Wells
June 2012
Kuhlman Electric Corporation
Crystal Springs, Mississippi

Well ID	Sample ID	Date Collected	1,1-Dichloro-ethene	1,1-Dichloro-ethane	1,2-Dichloro-ethane	1,1,1-Trichloro-ethane	1,1,2-Trichloro-ethane	Chloro-form	Dibromo-chloro-methane	Trichloro-ethene (TCE)	Tetra-chloro-ethene (PCE)	1,4-Dioxane	Bromo-dichloro-methane	Acetone	Carbon Disulfide
MDEQ TRGs (µg/L)			**7**	**798**	**5**	**200**	**5**	**0.155**	**0.126**	**5**	**5**	**6.09**	**0.168**	**608**	**1,040**
MW-30	KEP-GW-030-003	6/27/2012	**35.6**	1.56	<1.0	1.51	<1.0	**0.23^{J}**	<1.0	0.240^{J}	<1.0	3.82	<1.0	<25.0	<1.0
MW-31	KEP-GW-031-003	6/27/2012	**13.2**	<1.0	<1.0	<1.0	<1.0	**0.250^{J}**	<1.0	<1.0	<1.0	1.10^{J}	<1.0	2.81	0.530
MW-31	BD-1	6/27/2012	**10.5**	<1.0	<1.0	<1.0	<1.0	**0.240^{J}**	<1.0	<1.0	<1.0	NA	<1.0	2.66	0.520
MW-32	KEP-GW-032-003	6/27/2012	**28.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.223^{J}	<1.0	<25.0	<1.0
MW-33	KEP-GW-033-003	6/27/2012	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.99	<1.0	<25.0	<1.0
MW-34	KEP-GW-034-004	6/27/2012	6.28	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.18^{J}	<1.0	<25.0	<1.0

Concentrations are expressed as micrograms per liter (µg/L).
NA - Not Analyzed
Concentrations in **bold** exceed their respective TRGs
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

ATTACHMENT 2

FIGURES



\\W2k8srvr\ems\0Projects\KUH0 - Kuhlman Electric\KUH0-12-002 - 2012 Groundwater Sampling\2nd Quarter\Figures\MONITORING WELL LOCATIONS - SITE LAYOUT.dwg

ATTACHMENT 3

FIELD LOGS

ENVIRONMENTAL MANAGEMENT SERVICES, INC.

Groundwater Sampling Field Log

Site Kuhlman Electric Well Number KEP-GW-030-003

Collector/Operator A. Niven K. Cotton

Monitoring Well Information

Evacuation date/time	6-27-12 14:00	Sampling date/time	6-27-12 14:40
Method of evacuation	Fultz pump	Method of sampling	Low flow
Top of casing to water	65.13	Gallons per well volume	3.17
Top of casing to bottom	85	Total gallons evacuated	5.0 gal
Water level after evacuation	65.12		

Sample Data

Volume	NTU's	Temp [°C]	Conductivity [µs/cm]	DO [mg/l]	pH	ORP	Appearance
		23.07	231	0.90	3.72	15.2	clear
	2.80	22.98	235	0.76	4.13	10.7	
	2.67	22.97	237	0.84	4.61	5.1	
	2.80	22.94	234	1.12	4.73	4.0	

General Information

Weather Condition: Sunny & Hot

Sample Characteristics:

Containers/Amounts (3) VOA for VOCs (2) Amber for 1,4 dioxane

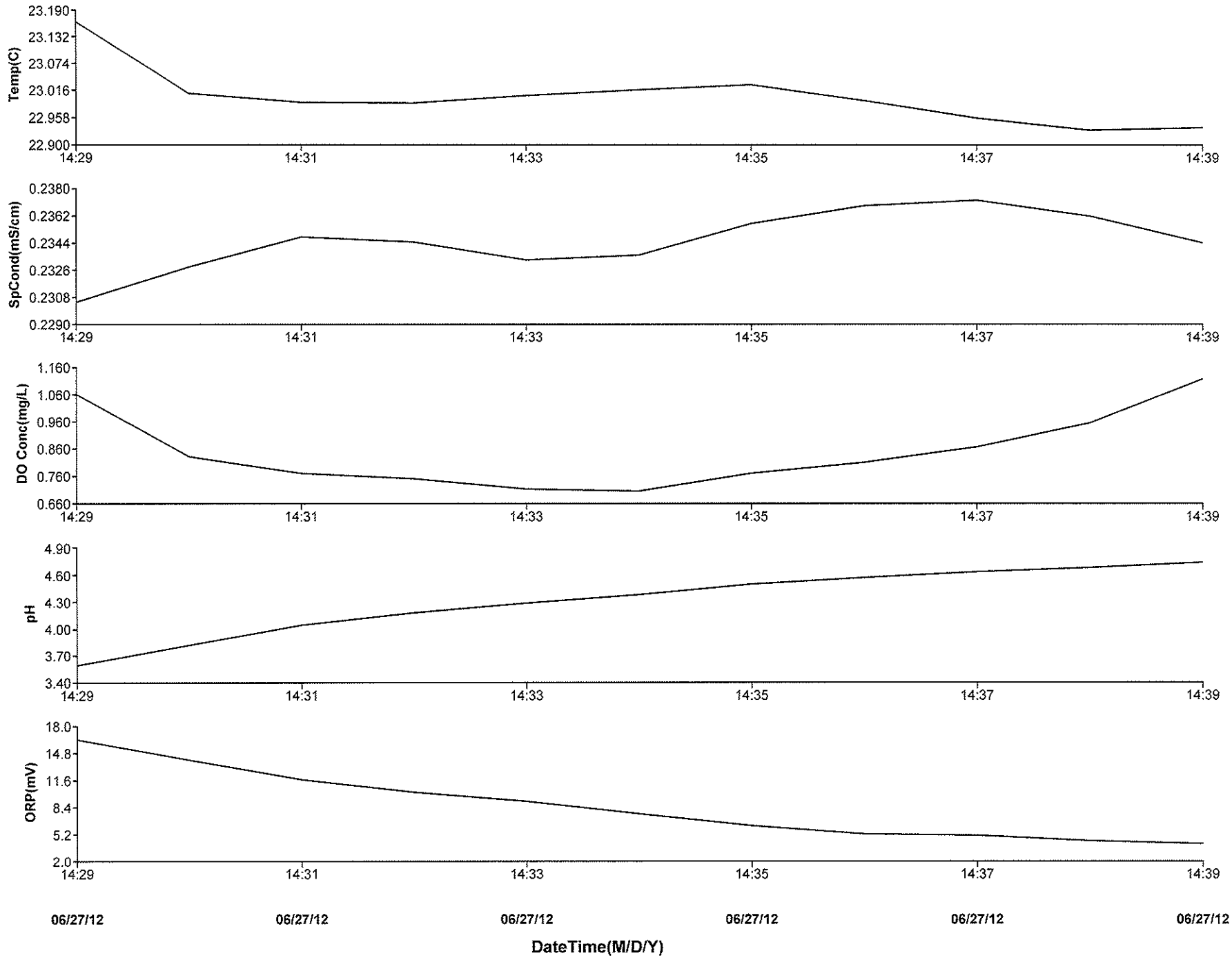
Recommend/Observations

Sampler/Collector

Stabilization recommendations: Three successive readings within +/- 0.1 for pH, +/- 3% for conductivity, +/- 10 mV for ORP, and +/- 10% for turbidity and DO. *these are rough estimates*

Well Casing Volumes[gal/ft]				
1/2"=0.0205	1"=0.041	2"=0.16 PVC	3"=0.37	4"=0.65
3/4"=0.3075	1 1/2"=0.10	2 1/2"=0.24	3 1/2"=0.50	4 1/2"=1.46

KECMW-30.DAT


Temp(C)
23.190
23.132
23.074
23.016
22.958
22.900
SpCond(mS/cm)
0.2380
0.2362
0.2344
0.2326
0.2308
0.2290
DO Conc(mg/L)
1.160
1.060
0.960
0.860
0.760
0.660
pH
4.90
4.60
4.30
4.00
3.70
3.40
ORP(mV)
18.0
14.8
11.6
8.4
5.2
2.0
14:29
14:31
14:33
14:35
14:37
14:39
06/27/12
DateTime(M/D/Y)

ENVIRONMENTAL MANAGEMENT SERVICES, INC.

Groundwater Sampling Field Log

Site: Kuhlman Electric — Well Number: KEP-GW-031-003

Collector/Operator: A. Niven, K. Cotton

Monitoring Well Information

Evacuation date/time	6-27-12 15:27	Sampling date/time	6-27-12 16:00 ~~6/27/12 15:27~~
Method of evacuation	Bladder Pump	Method of sampling	Low flow
Top of casing to water	~~63.30~~	Gallons per well volume	1.87
Top of casing to bottom	~~75.~~	Total gallons evacuated	4.0 gal
Water level after evacuation	63.29		

Sample Data

Volume	NTU's	Temp [°C]	Conductivity [µs/cm]	DO [mg/l]	pH	ORP	Appearance
		23.98	297	1.28	3.97	22.8	Tan
	24.6	23.81	257	2.37	3.93	~~19.~~8	light tan
	19.8	23.78	~~2~~54	2.92	3.85	19.6	clear
	15.1	23.76	237	3.21	3.81	19.1	"
	13.1	23.76	231	3.26	3.74	18.9	"
	11.4	23.78	226	3.54	3.67	18.9	"
	9.82	23.74	224	3.48	3.63	19.1	"

General Information

Weather Condition: Sunny hot

Sample Characteristics:

Containers/Amounts: (4) VOA (3) 1L Amber

* Blind duplicate (BD-1 6-27-12 9:30)

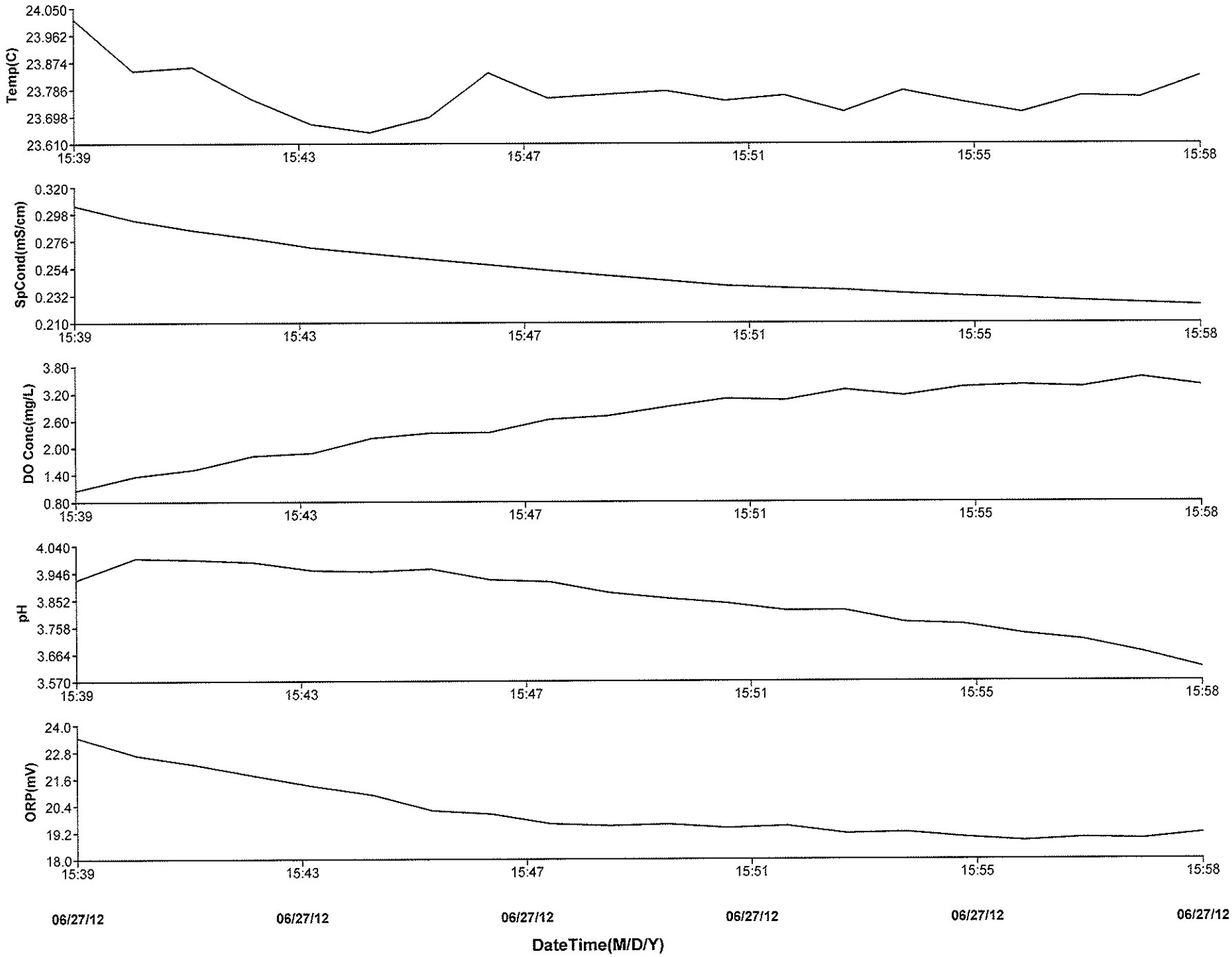
Recommend/Observations:

Sampler/Collector

Stabilization recommendations: Three successive readings within +/- 0.1 for pH, +/- 3% for conductivity, +/- 10 mV for ORP, and +/- 10% for turbidity and DO. *these are rough estimates*

Well Casing Volumes[gal/ft]				
1/2"=0.0205	1"=0.041	2"=0.16	3"=0.37	4"=0.65
3/4"=0.3075	1 1/2"=0.10	2 1/2"=0.24	3 1/2"=0.50	4 1/2"=1.46

KECMW-31.DAT


Temp(C)
24.050
23.962
23.874
23.786
23.698
23.610
SpCond(mS/cm)
0.320
0.298
0.276
0.254
0.232
0.210
DO Conc(mg/L)
3.80
3.20
2.60
2.00
1.40
0.80
pH
4.040
3.946
3.852
3.758
3.664
3.570
ORP(mV)
24.0
22.8
21.6
20.4
19.2
18.0
15:39
15:43
15:47
15:51
15:55
15:58
06/27/12
DateTime(M/D/Y)

ENVIRONMENTAL MANAGEMENT SERVICES, INC.

Groundwater Sampling Field Log

Site Kuhlman Well Number KEP-GW-032-003

Collector/Operator A. Niven

Monitoring Well Information

Evacuation date/time	6-27-12 13:15	Sampling date/time	6-27-12 13:45
Method of evacuation	Fultz pump	Method of sampling	low flow
Top of casing to water	60.54	Gallons per well volume	5.5 l gal
Top of casing to bottom	95	Total gallons evacuated	7.0 gal
Water level after evacuation	60.58		

Sample Data

Volume	NTU's	Temp [°C]	Conductivity [µs/cm]	DO [mg/l]	pH	ORP	Appearance
		20.90	256	3.52	2.28	24.1	tan
	37.7	21.19	251	3.13	1.62	27.6	light tan
	35.1	21.44	250	3.03	1.74	25.2	〃
	31.5	21.45	249	2.99	2.08	22.7	clear
	27.6	21.43	248	2.91	2.30	20.7	〃
	19.5	21.38	249	2.96	2.54	18.7	〃
	12.5	21.40	249	3.03	2.66	17.3	〃
	10.01	21.41	249	3.04	2.76	16.5	〃

General Information

Weather Condition: Sunny high 90s

Sample Characteristics:

Containers/Amounts (3) VOA for VOCs (2) 1L Amber for 1,4 Dioxane

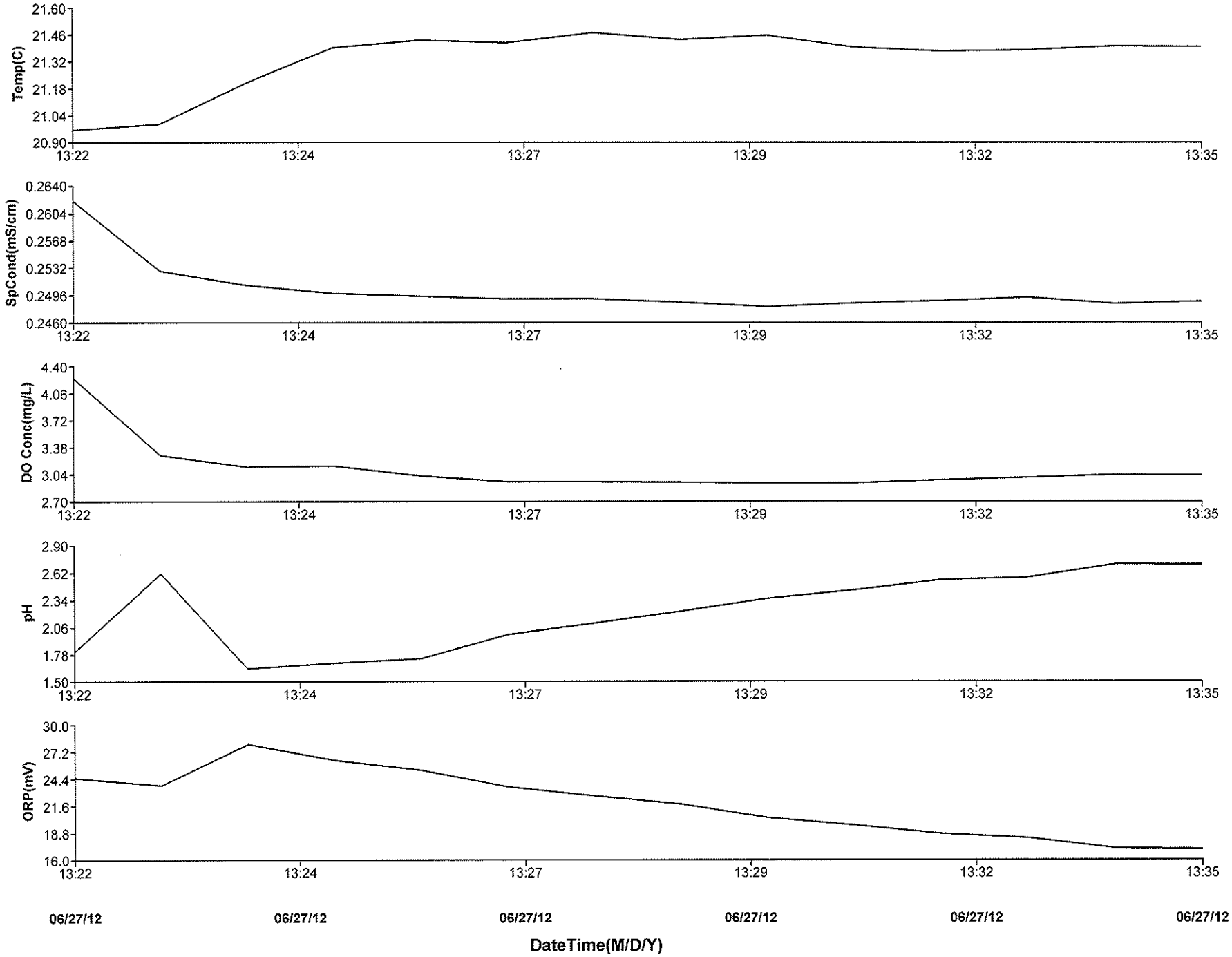
Recommend/Observations

Sampler/Collector

Stabilization recommendations: Three successive readings within +/- 0.1 for pH, +/- 3% for conductivity, +/- 10 mV for ORP, and +/- 10% for turbidity and DO. *these are rough estimates*

Well Casing Volumes[gal/ft]				
1/2"=0.0205	1"=0.041	2"=0.16 PVC	3"=0.37	4"=0.65
3/4"=0.3075	1 1/2"=0.10	2 1/2"=0.24	3 1/2"=0.50	4 1/2"=1.46

KECMW-32.DAT


Temp(C)
21.60
21.46
21.32
21.18
21.04
20.90
SpCond(mS/cm)
0.2640
0.2604
0.2568
0.2532
0.2496
0.2460
DO Conc(mg/L)
4.40
4.06
3.72
3.38
3.04
2.70
pH
2.90
2.62
2.34
2.06
1.78
1.50
ORP(mV)
30.0
27.2
24.4
21.6
18.8
16.0
13:22
13:24
13:27
13:29
13:32
13:35
06/27/12
DateTime(M/D/Y)

ENVIRONMENTAL MANAGEMENT SERVICES, INC.

Groundwater Sampling Field Log

Site Kuhlman Well Number KEP-GW-033-003

Collector/Operator A. Niven

Monitoring Well Information

Evacuation date/time	6-27-12 10:45	Sampling date/time	6-27-12 11:45
Method of evacuation	Bladder Pump	Method of sampling	Low Flow
Top of casing to water	58.92'	Gallons per well volume	6.57 gal
Top of casing to bottom	100'	Total gallons evacuated	7.0 gal
Water level after evacuation	58.94		

Sample Data

Volume	NTU's	Temp [°C]	Conductivity [µs/cm]	DO [mg/l]	pH	ORP	Appearance
		23.58	143	3.51	2.28	26.7	light brown
	6.65	23.65	141	3.45	2.21	26.	clear
	5.29	23.67	140	3.33	2.17	25.0	"
	3.87	23.65	140	3.58	2.27	21.6	"
	2.76	23.62	140	3.76	2.42	20.9	"

General Information

Weather Condition: Sunny

Sample Characteristics:

Containers/Amounts (6) VOA for VOCs (4) 1L Amber for 1,4 Dioxane Split with MDEQ

Recommend/Observations

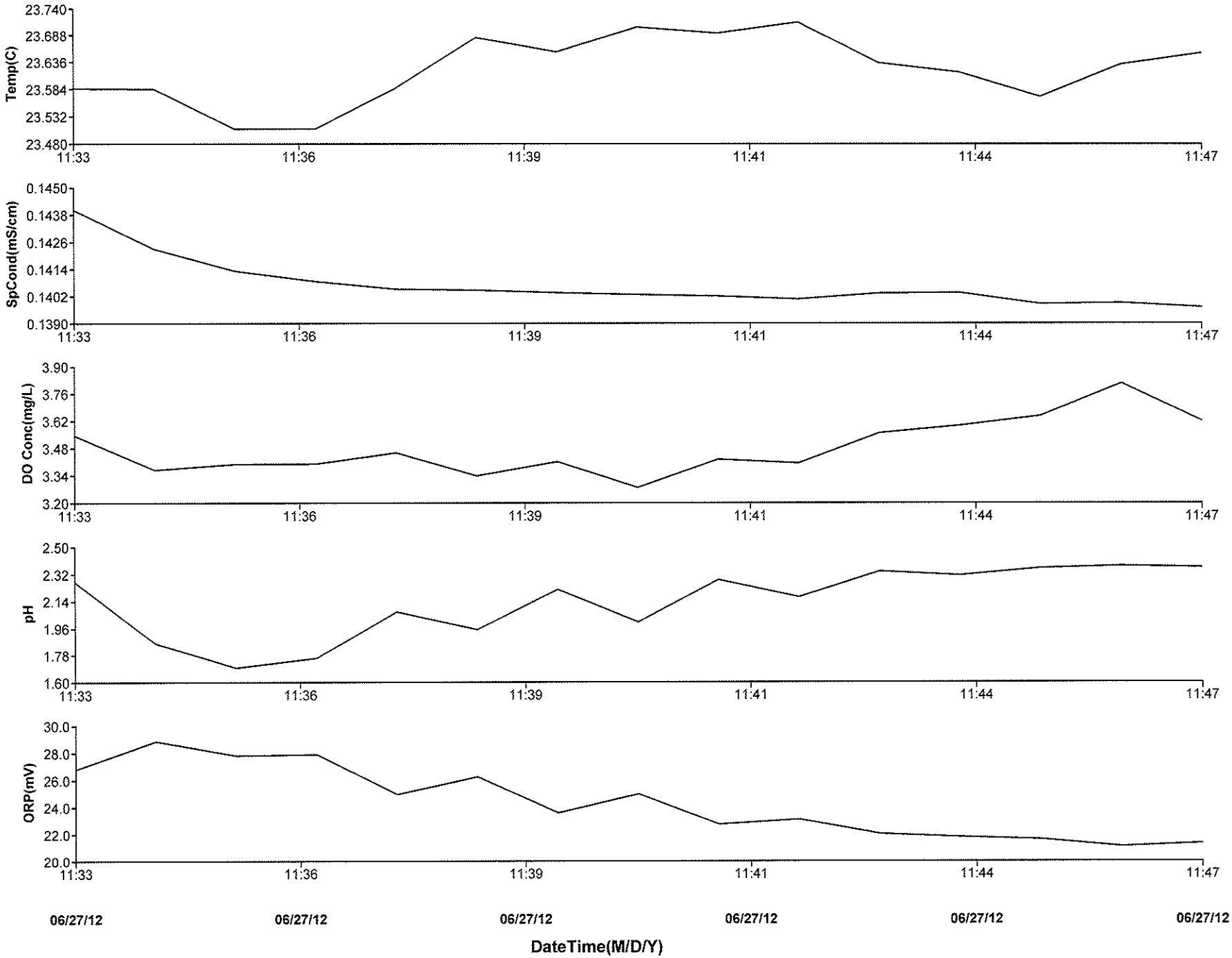
Sampler/Collector

Stabilization recommendations: Three successive readings within +/- 0.1 for pH, +/- 3% for conductivity, +/- 10 mV for ORP, and +/- 10% for turbidity and DO. *these are rough estimates*

Well Casing Volumes[gal/ft]

1/2"=0.0205	1"=0.041	(2"=0.16) PVC	3"=0.37	4"=0.65
3/4"=0.3075	1 1/2"=0.10	2 1/2"=0.24	3 1/2"=0.50	4 1/2"=1.46

KECMW-33.DAT


Temp(C)
23.740
23.688
23.636
23.584
23.532
23.480
SpCond(mS/cm)
0.1450
0.1438
0.1426
0.1414
0.1402
0.1390
DO Conc(mg/L)
3.90
3.76
3.62
3.48
3.34
3.20
pH
2.50
2.32
2.14
1.96
1.78
1.60
ORP(mV)
30.0
28.0
26.0
24.0
22.0
20.0
11:33
11:36
11:39
11:41
11:44
11:47
06/27/12
DateTime(M/D/Y)

ENVIRONMENTAL MANAGEMENT SERVICES, INC.

Groundwater Sampling Field Log

Site Kuhlman Well Number KEP-GW-034-004

Collector/Operator A. Niven

Monitoring Well Information

Evacuation date/time	6-27-12 9:00	Sampling date/time	6-27-12 10:00
Method of evacuation	Fultz pump	Method of sampling	Low flow
Top of casing to water	60.431	Gallons per well volume	7.53 gal
Top of casing to bottom	108	Total gallons evacuated	8.0 gal
Water level after evacuation	60.51		

Sample Data

~~Volume~~	NTU's	Temp [°C]	Conductivity [µs/cm]	DO [mg/l]	pH	ORP	Appearance
		20.47	218	5.18	4.10	30.4	clear
	0.50	20.54	205	5.09	4.40	20.6	"
	0.33	20.70	202	5.05	4.34	19.7	"
	0.58	20.66	202	4.87	4.27	19.4	"

General Information

Weather Condition: Sunny 80s

Sample Characteristics:

Containers/Amounts (3) VOA (2) 1L Ambers 7 6+4
Split MDEQ (3) VOA (2) 1L Ambers

Recommend/Observations

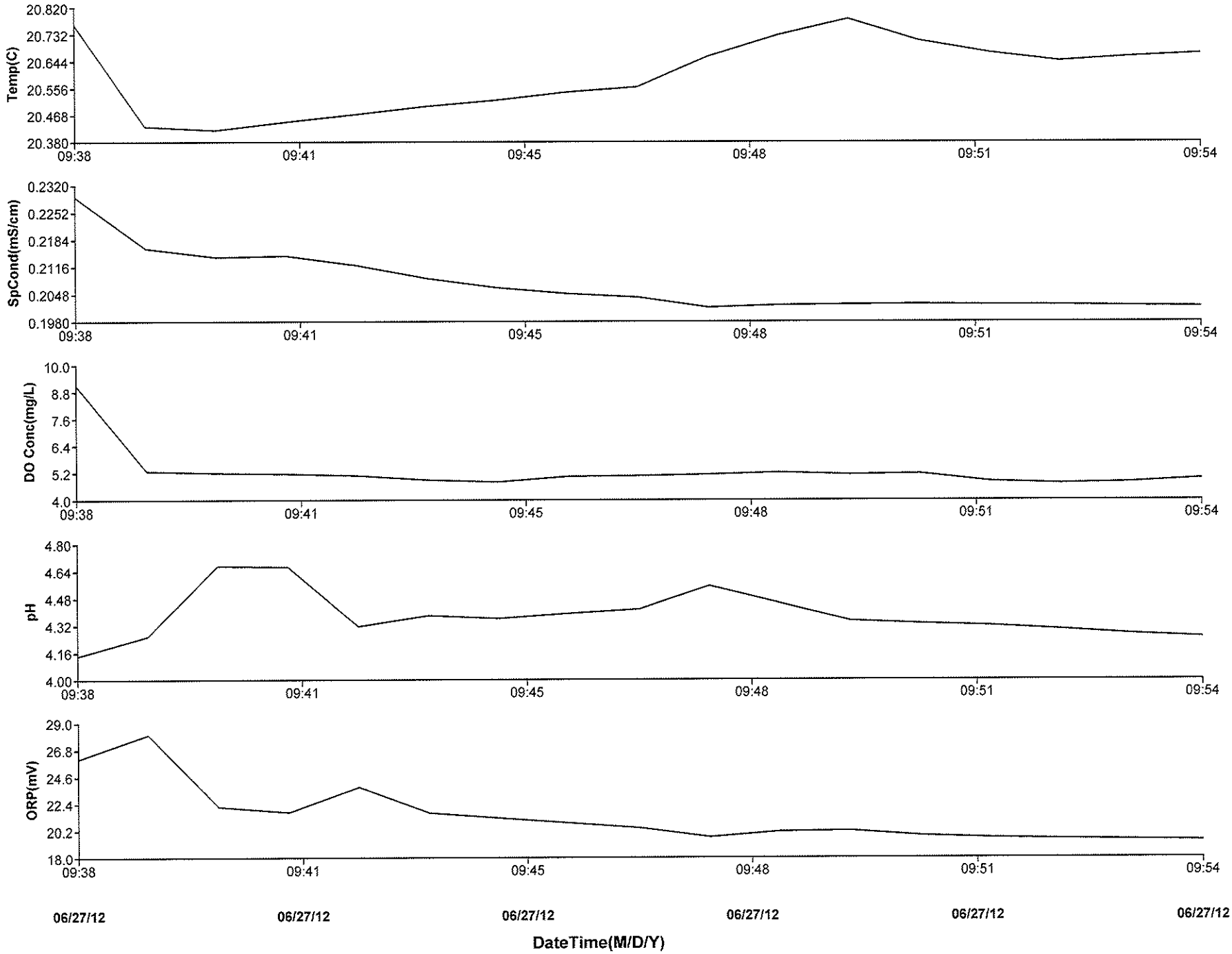
Sampler/Collector

Stabilization recommendations: Three successive readings within +/- 0.1 for pH, +/- 3% for conductivity, +/- 10 mV for ORP, and +/- 10% for turbidity and DO. *these are rough estimates*

Well Casing Volumes[gal/ft]

1/2"=0.0205	1"=0.041	(2"=0.16) PVC	3"=0.37	4"=0.65
3/4"=0.3075	1 1/2"=0.10	2 1/2"=0.24	3 1/2"=0.50	4 1/2"=1.46

KECMW-34.DAT


Temp(C)
20.820
20.732
20.644
20.556
20.468
20.380
SpCond(mS/cm)
0.2320
0.2252
0.2184
0.2116
0.2048
0.1980
DO Conc(mg/L)
10.0
8.8
7.6
6.4
5.2
4.0
pH
4.80
4.64
4.48
4.32
4.16
4.00
ORP(mV)
29.0
26.8
24.6
22.4
20.2
18.0
09:38
09:41
09:45
09:48
09:51
09:54
06/27/12
DateTime(M/D/Y)

ATTACHMENT 4

ANALYTICAL REPORT

JUNE 27, 2012 SAMPLING EVENT

Laboratory Report of Analysis

To: Ethan Allen
ENVIRONMENTAL MANAGEMENT SERVICES, INC.
7350 Highway 98
Hattiesburg, MS 39402

Report Number: **31202047**

Client Project: **Kuhlman Electric**

Dear Ethan Allen,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Amy J. Boehm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Amy J. Boehm Date
Project Manager
amy.boehm@sgs.com

Print Date: 07/06/2012 N.C. Certification # 481

Laboratory Qualifiers

Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < DL)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Estimated Concentration.
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1	Mis-identified peak
M2	Software did not integrate peak
M3	Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one)
M4	Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane)
M5	Other - Explained in case narrative

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
BD-1	31202047001	06/27/2012 09:30	06/29/2012 10:20	Water
KEP-GW-034-004	31202047002	06/27/2012 10:00	06/29/2012 10:20	Water
KEP-GW-033-003	31202047003	06/27/2012 11:45	06/29/2012 10:20	Water
KEP-GW-032-003	31202047004	06/27/2012 13:45	06/29/2012 10:20	Water
KEP-GW-030-003	31202047005	06/27/2012 14:40	06/29/2012 10:20	Water
KEP-GW-031-003	31202047006	06/27/2012 16:00	06/29/2012 10:20	Water
Trip Blank (Not on COC)	31202047007	06/27/2012 00:00	06/29/2012 10:20	Water

Detectable Results Summary

Client Sample ID: **BD-1**				
Lab Sample ID: 31202047001-A	Parameter	Result	Units	
SW-846 8260B	1,1-Dichloroethene	10.5	ug/L	
	Acetone	2.66	ug/L	J
	Carbon disulfide	0.520	ug/L	J
	Chloroform	0.240	ug/L	J
Client Sample ID: **KEP-GW-034-004**				
Lab Sample ID: 31202047002-A	Parameter	Result	Units	
SW-846 8260B	1,1-Dichloroethene	6.28	ug/L	
SW-846 8270D	1,4 Dioxane	1.18	ug/L	J
Client Sample ID: **KEP-GW-032-003**				
Lab Sample ID: 31202047004-A	Parameter	Result	Units	
SW-846 8260B	1,1-Dichloroethene	28.5	ug/L	
SW-846 8270D	1,4 Dioxane	0.223	ug/L	J
Client Sample ID: **KEP-GW-030-003**				
Lab Sample ID: 31202047005-A	Parameter	Result	Units	
SW-846 8260B	1,1,1-Trichloroethane	1.51	ug/L	
	1,1-Dichloroethane	1.56	ug/L	
	1,1-Dichloroethene	35.6	ug/L	
	Chloroform	0.230	ug/L	J
	Trichloroethene	0.240	ug/L	J
SW-846 8270D	1,4 Dioxane	3.82	ug/L	
Client Sample ID: **KEP-GW-031-003**				
Lab Sample ID: 31202047006-A	Parameter	Result	Units	
SW-846 8260B	1,1-Dichloroethene	13.2	ug/L	
	Acetone	2.81	ug/L	J
	Carbon disulfide	0.530	ug/L	J
	Chloroform	0.250	ug/L	J
SW-846 8270D	1,4 Dioxane	1.10	ug/L	J
Client Sample ID: **Trip Blank (Not on COC)**				
Lab Sample ID: 31202047007-A	Parameter	Result	Units	
SW-846 8260B	Methylene chloride	0.370	ug/L	J

Results of **BD-1**

Client Sample ID: **BD-1**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047001-A
Lab Project ID: 31202047

Collection Date: 06/27/2012 09:30
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.104	1.00	ug/L	1	07/2/2012 12:59
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1	07/2/2012 12:59
1,1,2,2-Tetrachloroethane	ND	U	0.156	1.00	ug/L	1	07/2/2012 12:59
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	07/2/2012 12:59
1,1-Dichloroethane	ND	U	0.165	1.00	ug/L	1	07/2/2012 12:59
1,1-Dichloroethene	**10.5**		0.212	1.00	ug/L	1	07/2/2012 12:59
1,1-Dichloropropene	ND	U	0.0863	1.00	ug/L	1	07/2/2012 12:59
1,2,3-Trichlorobenzene	ND	U	0.110	1.00	ug/L	1	07/2/2012 12:59
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	07/2/2012 12:59
1,2,4-Trichlorobenzene	ND	U	0.0913	1.00	ug/L	1	07/2/2012 12:59
1,2,4-Trimethylbenzene	ND	U	0.0961	1.00	ug/L	1	07/2/2012 12:59
1,2-Dibromo-3-chloropropane	ND	U	0.748	5.00	ug/L	1	07/2/2012 12:59
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	07/2/2012 12:59
1,2-Dichlorobenzene	ND	U	0.137	1.00	ug/L	1	07/2/2012 12:59
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	07/2/2012 12:59
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1	07/2/2012 12:59
1,3,5-Trimethylbenzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 12:59
1,3-Dichlorobenzene	ND	U	0.103	1.00	ug/L	1	07/2/2012 12:59
1,3-Dichloropropane	ND	U	0.130	1.00	ug/L	1	07/2/2012 12:59
1,4-Dichlorobenzene	ND	U	0.130	1.00	ug/L	1	07/2/2012 12:59
2,2-Dichloropropane	ND	U	0.393	1.00	ug/L	1	07/2/2012 12:59
2-Butanone	ND	U	0.723	25.0	ug/L	1	07/2/2012 12:59
2-Chlorotoluene	ND	U	0.113	1.00	ug/L	1	07/2/2012 12:59
2-Hexanone	ND	U	0.728	5.00	ug/L	1	07/2/2012 12:59
4-Chlorotoluene	ND	U	0.125	1.00	ug/L	1	07/2/2012 12:59
4-Isopropyltoluene	ND	U	0.0769	1.00	ug/L	1	07/2/2012 12:59
4-Methyl-2-pentanone	ND	U	0.558	5.00	ug/L	1	07/2/2012 12:59
Acetone	**2.66**	J	0.864	25.0	ug/L	1	07/2/2012 12:59
Benzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 12:59
Bromobenzene	ND	U	0.110	1.00	ug/L	1	07/2/2012 12:59
Bromochloromethane	ND	U	0.211	1.00	ug/L	1	07/2/2012 12:59
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	07/2/2012 12:59
Bromoform	ND	U	0.0974	1.00	ug/L	1	07/2/2012 12:59
Bromomethane	ND	U	0.237	1.00	ug/L	1	07/2/2012 12:59
n-Butylbenzene	ND	U	0.0769	1.00	ug/L	1	07/2/2012 12:59
Carbon disulfide	**0.520**	J	0.106	1.00	ug/L	1	07/2/2012 12:59
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	07/2/2012 12:59
Chlorobenzene	ND	U	0.116	1.00	ug/L	1	07/2/2012 12:59
Chloroethane	ND	U	0.311	1.00	ug/L	1	07/2/2012 12:59
Chloroform	**0.240**	J	0.139	1.00	ug/L	1	07/2/2012 12:59
Chloromethane	ND	U	0.448	1.00	ug/L	1	07/2/2012 12:59
Dibromochloromethane	ND	U	0.134	1.00	ug/L	1	07/2/2012 12:59
Dibromomethane	ND	U	0.168	1.00	ug/L	1	07/2/2012 12:59
Dichlorodifluoromethane	ND	U	0.171	5.00	ug/L	1	07/2/2012 12:59

Print Date: 07/06/2012

N.C. Certification # 481

Results of **BD-1**

Client Sample ID: **BD-1**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047001-A
Lab Project ID: 31202047

Collection Date: 06/27/2012 09:30
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	07/2/2012 12:59
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	07/2/2012 12:59
Diisopropyl Ether	ND	U	0.294	1.00	ug/L	1	07/2/2012 12:59
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	07/2/2012 12:59
Hexachlorobutadiene	ND	U	0.0792	1.00	ug/L	1	07/2/2012 12:59
Isopropylbenzene (Cumene)	ND	U	0.0869	1.00	ug/L	1	07/2/2012 12:59
Methyl iodide	ND	U	0.115	1.00	ug/L	1	07/2/2012 12:59
Methylene chloride	ND	U	0.152	5.00	ug/L	1	07/2/2012 12:59
Naphthalene	ND	U	0.0855	1.00	ug/L	1	07/2/2012 12:59
Styrene	ND	U	0.102	1.00	ug/L	1	07/2/2012 12:59
Tetrachloroethene	ND	U	0.155	1.00	ug/L	1	07/2/2012 12:59
Toluene	ND	U	0.133	1.00	ug/L	1	07/2/2012 12:59
Trichloroethene	ND	U	0.125	1.00	ug/L	1	07/2/2012 12:59
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1	07/2/2012 12:59
Vinyl acetate	ND	U	0.882	2.00	ug/L	1	07/2/2012 12:59
Vinyl chloride	ND	U	0.124	1.00	ug/L	1	07/2/2012 12:59
cis-1,2-Dichloroethene	ND	U	0.136	1.00	ug/L	1	07/2/2012 12:59
m,p-Xylene	ND	U	0.182	2.00	ug/L	1	07/2/2012 12:59
n-Propylbenzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 12:59
o-Xylene	ND	U	0.0874	1.00	ug/L	1	07/2/2012 12:59
sec-Butylbenzene	ND	U	0.112	1.00	ug/L	1	07/2/2012 12:59
tert-Butyl methyl ether (MTBE)	ND	U	0.144	1.00	ug/L	1	07/2/2012 12:59
tert-Butylbenzene	ND	U	0.0855	1.00	ug/L	1	07/2/2012 12:59
trans-1,2-Dichloroethene	ND	U	0.223	1.00	ug/L	1	07/2/2012 12:59
Surrogates							
1,2-Dichloroethane-d4	85.0			64.0-140	%	1	07/2/2012 12:59
4-Bromofluorobenzene	96.0			85.0-115	%	1	07/2/2012 12:59
Toluene d8	102			82.0-117	%	1	07/2/2012 12:59

Batch Information

Analytical Batch: **VMS2340**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**
Analytical Date/Time: **07/02/2012 12:59**

Prep Batch: **VXX3562**
Prep Method: **SW-846 5030B**
Prep Date/Time: **07/02/2012 08:00**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 07/06/2012

N.C. Certification # 481

Results of **KEP-GW-034-004**

Client Sample ID: **KEP-GW-034-004**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047002-A
Lab Project ID: 31202047

Collection Date: 06/27/2012 10:00
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.104	1.00	ug/L	1	07/2/2012 13:24
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1	07/2/2012 13:24
1,1,2,2-Tetrachloroethane	ND	U	0.156	1.00	ug/L	1	07/2/2012 13:24
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	07/2/2012 13:24
1,1-Dichloroethane	ND	U	0.165	1.00	ug/L	1	07/2/2012 13:24
1,1-Dichloroethene	**6.28**		0.212	1.00	ug/L	1	07/2/2012 13:24
1,1-Dichloropropene	ND	U	0.0863	1.00	ug/L	1	07/2/2012 13:24
1,2,3-Trichlorobenzene	ND	U	0.110	1.00	ug/L	1	07/2/2012 13:24
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	07/2/2012 13:24
1,2,4-Trichlorobenzene	ND	U	0.0913	1.00	ug/L	1	07/2/2012 13:24
1,2,4-Trimethylbenzene	ND	U	0.0961	1.00	ug/L	1	07/2/2012 13:24
1,2-Dibromo-3-chloropropane	ND	U	0.748	5.00	ug/L	1	07/2/2012 13:24
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	07/2/2012 13:24
1,2-Dichlorobenzene	ND	U	0.137	1.00	ug/L	1	07/2/2012 13:24
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	07/2/2012 13:24
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1	07/2/2012 13:24
1,3,5-Trimethylbenzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 13:24
1,3-Dichlorobenzene	ND	U	0.103	1.00	ug/L	1	07/2/2012 13:24
1,3-Dichloropropane	ND	U	0.130	1.00	ug/L	1	07/2/2012 13:24
1,4-Dichlorobenzene	ND	U	0.130	1.00	ug/L	1	07/2/2012 13:24
2,2-Dichloropropane	ND	U	0.393	1.00	ug/L	1	07/2/2012 13:24
2-Butanone	ND	U	0.723	25.0	ug/L	1	07/2/2012 13:24
2-Chlorotoluene	ND	U	0.113	1.00	ug/L	1	07/2/2012 13:24
2-Hexanone	ND	U	0.728	5.00	ug/L	1	07/2/2012 13:24
4-Chlorotoluene	ND	U	0.125	1.00	ug/L	1	07/2/2012 13:24
4-Isopropyltoluene	ND	U	0.0769	1.00	ug/L	1	07/2/2012 13:24
4-Methyl-2-pentanone	ND	U	0.558	5.00	ug/L	1	07/2/2012 13:24
Acetone	ND	U	0.864	25.0	ug/L	1	07/2/2012 13:24
Benzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 13:24
Bromobenzene	ND	U	0.110	1.00	ug/L	1	07/2/2012 13:24
Bromochloromethane	ND	U	0.211	1.00	ug/L	1	07/2/2012 13:24
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	07/2/2012 13:24
Bromoform	ND	U	0.0974	1.00	ug/L	1	07/2/2012 13:24
Bromomethane	ND	U	0.237	1.00	ug/L	1	07/2/2012 13:24
n-Butylbenzene	ND	U	0.0769	1.00	ug/L	1	07/2/2012 13:24
Carbon disulfide	ND	U	0.106	1.00	ug/L	1	07/2/2012 13:24
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	07/2/2012 13:24
Chlorobenzene	ND	U	0.116	1.00	ug/L	1	07/2/2012 13:24
Chloroethane	ND	U	0.311	1.00	ug/L	1	07/2/2012 13:24
Chloroform	ND	U	0.139	1.00	ug/L	1	07/2/2012 13:24
Chloromethane	ND	U	0.448	1.00	ug/L	1	07/2/2012 13:24
Dibromochloromethane	ND	U	0.134	1.00	ug/L	1	07/2/2012 13:24
Dibromomethane	ND	U	0.168	1.00	ug/L	1	07/2/2012 13:24
Dichlorodifluoromethane	ND	U	0.171	5.00	ug/L	1	07/2/2012 13:24

Print Date: 07/06/2012

N.C. Certification # 481

Results of **KEP-GW-034-004**

Client Sample ID: **KEP-GW-034-004**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047002-A
Lab Project ID: 31202047

Collection Date: 06/27/2012 10:00
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	07/2/2012 13:24
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	07/2/2012 13:24
Diisopropyl Ether	ND	U	0.294	1.00	ug/L	1	07/2/2012 13:24
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	07/2/2012 13:24
Hexachlorobutadiene	ND	U	0.0792	1.00	ug/L	1	07/2/2012 13:24
Isopropylbenzene (Cumene)	ND	U	0.0869	1.00	ug/L	1	07/2/2012 13:24
Methyl iodide	ND	U	0.115	1.00	ug/L	1	07/2/2012 13:24
Methylene chloride	ND	U	0.152	5.00	ug/L	1	07/2/2012 13:24
Naphthalene	ND	U	0.0855	1.00	ug/L	1	07/2/2012 13:24
Styrene	ND	U	0.102	1.00	ug/L	1	07/2/2012 13:24
Tetrachloroethene	ND	U	0.155	1.00	ug/L	1	07/2/2012 13:24
Toluene	ND	U	0.133	1.00	ug/L	1	07/2/2012 13:24
Trichloroethene	ND	U	0.125	1.00	ug/L	1	07/2/2012 13:24
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1	07/2/2012 13:24
Vinyl acetate	ND	U	0.882	2.00	ug/L	1	07/2/2012 13:24
Vinyl chloride	ND	U	0.124	1.00	ug/L	1	07/2/2012 13:24
cis-1,2-Dichloroethene	ND	U	0.136	1.00	ug/L	1	07/2/2012 13:24
m,p-Xylene	ND	U	0.182	2.00	ug/L	1	07/2/2012 13:24
n-Propylbenzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 13:24
o-Xylene	ND	U	0.0874	1.00	ug/L	1	07/2/2012 13:24
sec-Butylbenzene	ND	U	0.112	1.00	ug/L	1	07/2/2012 13:24
tert-Butyl methyl ether (MTBE)	ND	U	0.144	1.00	ug/L	1	07/2/2012 13:24
tert-Butylbenzene	ND	U	0.0855	1.00	ug/L	1	07/2/2012 13:24
trans-1,2-Dichloroethene	ND	U	0.223	1.00	ug/L	1	07/2/2012 13:24
Surrogates							
1,2-Dichloroethane-d4	81.0			64.0-140	%	1	07/2/2012 13:24
4-Bromofluorobenzene	92.0			85.0-115	%	1	07/2/2012 13:24
Toluene d8	97.0			82.0-117	%	1	07/2/2012 13:24

Batch Information

Analytical Batch: **VMS2340**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**
Analytical Date/Time: **07/02/2012 13:24**

Prep Batch: **VXX3562**
Prep Method: **SW-846 5030B**
Prep Date/Time: **07/02/2012 08:00**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 07/06/2012

N.C. Certification # 481

Results of **KEP-GW-034-004**

Client Sample ID: **KEP-GW-034-004**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047002-D
Lab Project ID: 31202047

Collection Date: 06/27/2012 10:00
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,4 Dioxane	**1.18**	J	0.179	2.00	ug/L	1	07/3/2012 13:06
Surrogates							
Nitrobenzene-d5	90.0			46.0-118	%	1	07/3/2012 13:06

Batch Information

Analytical Batch: **XMS1584**
Analytical Method: **SW-846 8270D**
Instrument: **MSD6**
Analyst: **CMP**
Analytical Date/Time: **07/03/2012 13:06**

Prep Batch: **XXX2769**
Prep Method: **SW-846 3520C**
Prep Date/Time: **07/02/2012 10:13**
Prep Initial Wt./Vol.: **998 mL**
Prep Extract Vol: **1 mL**

Print Date: 07/06/2012

N.C. Certification # 481

Results of **KEP-GW-033-003**

Client Sample ID: **KEP-GW-033-003**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047003-A
Lab Project ID: 31202047

Collection Date: 06/27/2012 11:45
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.104	1.00	ug/L	1	07/2/2012 13:49
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1	07/2/2012 13:49
1,1,2,2-Tetrachloroethane	ND	U	0.156	1.00	ug/L	1	07/2/2012 13:49
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	07/2/2012 13:49
1,1-Dichloroethane	ND	U	0.165	1.00	ug/L	1	07/2/2012 13:49
1,1-Dichloroethene	ND	U	0.212	1.00	ug/L	1	07/2/2012 13:49
1,1-Dichloropropene	ND	U	0.0863	1.00	ug/L	1	07/2/2012 13:49
1,2,3-Trichlorobenzene	ND	U	0.110	1.00	ug/L	1	07/2/2012 13:49
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	07/2/2012 13:49
1,2,4-Trichlorobenzene	ND	U	0.0913	1.00	ug/L	1	07/2/2012 13:49
1,2,4-Trimethylbenzene	ND	U	0.0961	1.00	ug/L	1	07/2/2012 13:49
1,2-Dibromo-3-chloropropane	ND	U	0.748	5.00	ug/L	1	07/2/2012 13:49
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	07/2/2012 13:49
1,2-Dichlorobenzene	ND	U	0.137	1.00	ug/L	1	07/2/2012 13:49
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	07/2/2012 13:49
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1	07/2/2012 13:49
1,3,5-Trimethylbenzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 13:49
1,3-Dichlorobenzene	ND	U	0.103	1.00	ug/L	1	07/2/2012 13:49
1,3-Dichloropropane	ND	U	0.130	1.00	ug/L	1	07/2/2012 13:49
1,4-Dichlorobenzene	ND	U	0.130	1.00	ug/L	1	07/2/2012 13:49
2,2-Dichloropropane	ND	U	0.393	1.00	ug/L	1	07/2/2012 13:49
2-Butanone	ND	U	0.723	25.0	ug/L	1	07/2/2012 13:49
2-Chlorotoluene	ND	U	0.113	1.00	ug/L	1	07/2/2012 13:49
2-Hexanone	ND	U	0.728	5.00	ug/L	1	07/2/2012 13:49
4-Chlorotoluene	ND	U	0.125	1.00	ug/L	1	07/2/2012 13:49
4-Isopropyltoluene	ND	U	0.0769	1.00	ug/L	1	07/2/2012 13:49
4-Methyl-2-pentanone	ND	U	0.558	5.00	ug/L	1	07/2/2012 13:49
Acetone	ND	U	0.864	25.0	ug/L	1	07/2/2012 13:49
Benzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 13:49
Bromobenzene	ND	U	0.110	1.00	ug/L	1	07/2/2012 13:49
Bromochloromethane	ND	U	0.211	1.00	ug/L	1	07/2/2012 13:49
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	07/2/2012 13:49
Bromoform	ND	U	0.0974	1.00	ug/L	1	07/2/2012 13:49
Bromomethane	ND	U	0.237	1.00	ug/L	1	07/2/2012 13:49
n-Butylbenzene	ND	U	0.0769	1.00	ug/L	1	07/2/2012 13:49
Carbon disulfide	ND	U	0.106	1.00	ug/L	1	07/2/2012 13:49
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	07/2/2012 13:49
Chlorobenzene	ND	U	0.116	1.00	ug/L	1	07/2/2012 13:49
Chloroethane	ND	U	0.311	1.00	ug/L	1	07/2/2012 13:49
Chloroform	ND	U	0.139	1.00	ug/L	1	07/2/2012 13:49
Chloromethane	ND	U	0.448	1.00	ug/L	1	07/2/2012 13:49
Dibromochloromethane	ND	U	0.134	1.00	ug/L	1	07/2/2012 13:49
Dibromomethane	ND	U	0.168	1.00	ug/L	1	07/2/2012 13:49
Dichlorodifluoromethane	ND	U	0.171	5.00	ug/L	1	07/2/2012 13:49

Print Date: 07/06/2012

N.C. Certification # 481

Results of **KEP-GW-033-003**

Client Sample ID: **KEP-GW-033-003**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047003-A
Lab Project ID: 31202047

Collection Date: 06/27/2012 11:45
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	07/2/2012 13:49
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	07/2/2012 13:49
Diisopropyl Ether	ND	U	0.294	1.00	ug/L	1	07/2/2012 13:49
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	07/2/2012 13:49
Hexachlorobutadiene	ND	U	0.0792	1.00	ug/L	1	07/2/2012 13:49
Isopropylbenzene (Cumene)	ND	U	0.0869	1.00	ug/L	1	07/2/2012 13:49
Methyl iodide	ND	U	0.115	1.00	ug/L	1	07/2/2012 13:49
Methylene chloride	ND	U	0.152	5.00	ug/L	1	07/2/2012 13:49
Naphthalene	ND	U	0.0855	1.00	ug/L	1	07/2/2012 13:49
Styrene	ND	U	0.102	1.00	ug/L	1	07/2/2012 13:49
Tetrachloroethene	ND	U	0.155	1.00	ug/L	1	07/2/2012 13:49
Toluene	ND	U	0.133	1.00	ug/L	1	07/2/2012 13:49
Trichloroethene	ND	U	0.125	1.00	ug/L	1	07/2/2012 13:49
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1	07/2/2012 13:49
Vinyl acetate	ND	U	0.882	2.00	ug/L	1	07/2/2012 13:49
Vinyl chloride	ND	U	0.124	1.00	ug/L	1	07/2/2012 13:49
cis-1,2-Dichloroethene	ND	U	0.136	1.00	ug/L	1	07/2/2012 13:49
m,p-Xylene	ND	U	0.182	2.00	ug/L	1	07/2/2012 13:49
n-Propylbenzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 13:49
o-Xylene	ND	U	0.0874	1.00	ug/L	1	07/2/2012 13:49
sec-Butylbenzene	ND	U	0.112	1.00	ug/L	1	07/2/2012 13:49
tert-Butyl methyl ether (MTBE)	ND	U	0.144	1.00	ug/L	1	07/2/2012 13:49
tert-Butylbenzene	ND	U	0.0855	1.00	ug/L	1	07/2/2012 13:49
trans-1,2-Dichloroethene	ND	U	0.223	1.00	ug/L	1	07/2/2012 13:49
Surrogates							
1,2-Dichloroethane-d4	97.0			64.0-140	%	1	07/2/2012 13:49
4-Bromofluorobenzene	101			85.0-115	%	1	07/2/2012 13:49
Toluene d8	99.0			82.0-117	%	1	07/2/2012 13:49

Batch Information

Analytical Batch: **VMS2340**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**
Analytical Date/Time: **07/02/2012 13:49**

Prep Batch: **VXX3562**
Prep Method: **SW-846 5030B**
Prep Date/Time: **07/02/2012 08:00**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 07/06/2012

N.C. Certification # 481

Results of **KEP-GW-033-003**

Client Sample ID: **KEP-GW-033-003**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047003-D
Lab Project ID: 31202047

Collection Date: 06/27/2012 11:45
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,4 Dioxane	ND	U	0.177	1.99	ug/L	1	07/3/2012 13:53
Surrogates							
Nitrobenzene-d5	104			46.0-118	%	1	07/3/2012 13:53

Batch Information

Analytical Batch: **XMS1584**
Analytical Method: **SW-846 8270D**
Instrument: **MSD6**
Analyst: **CMP**
Analytical Date/Time: **07/03/2012 13:53**

Prep Batch: **XXX2769**
Prep Method: **SW-846 3520C**
Prep Date/Time: **07/02/2012 10:13**
Prep Initial Wt./Vol.: **1007 mL**
Prep Extract Vol: **1 mL**

Print Date: 07/06/2012

N.C. Certification # 481

Results of **KEP-GW-032-003**

Client Sample ID: **KEP-GW-032-003**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047004-A
Lab Project ID: 31202047

Collection Date: 06/27/2012 13:45
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.104	1.00	ug/L	1	07/2/2012 14:15
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1	07/2/2012 14:15
1,1,2,2-Tetrachloroethane	ND	U	0.156	1.00	ug/L	1	07/2/2012 14:15
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	07/2/2012 14:15
1,1-Dichloroethane	ND	U	0.165	1.00	ug/L	1	07/2/2012 14:15
1,1-Dichloroethene	**28.5**		0.212	1.00	ug/L	1	07/2/2012 14:15
1,1-Dichloropropene	ND	U	0.0863	1.00	ug/L	1	07/2/2012 14:15
1,2,3-Trichlorobenzene	ND	U	0.110	1.00	ug/L	1	07/2/2012 14:15
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	07/2/2012 14:15
1,2,4-Trichlorobenzene	ND	U	0.0913	1.00	ug/L	1	07/2/2012 14:15
1,2,4-Trimethylbenzene	ND	U	0.0961	1.00	ug/L	1	07/2/2012 14:15
1,2-Dibromo-3-chloropropane	ND	U	0.748	5.00	ug/L	1	07/2/2012 14:15
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	07/2/2012 14:15
1,2-Dichlorobenzene	ND	U	0.137	1.00	ug/L	1	07/2/2012 14:15
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	07/2/2012 14:15
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1	07/2/2012 14:15
1,3,5-Trimethylbenzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 14:15
1,3-Dichlorobenzene	ND	U	0.103	1.00	ug/L	1	07/2/2012 14:15
1,3-Dichloropropane	ND	U	0.130	1.00	ug/L	1	07/2/2012 14:15
1,4-Dichlorobenzene	ND	U	0.130	1.00	ug/L	1	07/2/2012 14:15
2,2-Dichloropropane	ND	U	0.393	1.00	ug/L	1	07/2/2012 14:15
2-Butanone	ND	U	0.723	25.0	ug/L	1	07/2/2012 14:15
2-Chlorotoluene	ND	U	0.113	1.00	ug/L	1	07/2/2012 14:15
2-Hexanone	ND	U	0.728	5.00	ug/L	1	07/2/2012 14:15
4-Chlorotoluene	ND	U	0.125	1.00	ug/L	1	07/2/2012 14:15
4-Isopropyltoluene	ND	U	0.0769	1.00	ug/L	1	07/2/2012 14:15
4-Methyl-2-pentanone	ND	U	0.558	5.00	ug/L	1	07/2/2012 14:15
Acetone	ND	U	0.864	25.0	ug/L	1	07/2/2012 14:15
Benzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 14:15
Bromobenzene	ND	U	0.110	1.00	ug/L	1	07/2/2012 14:15
Bromochloromethane	ND	U	0.211	1.00	ug/L	1	07/2/2012 14:15
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	07/2/2012 14:15
Bromoform	ND	U	0.0974	1.00	ug/L	1	07/2/2012 14:15
Bromomethane	ND	U	0.237	1.00	ug/L	1	07/2/2012 14:15
n-Butylbenzene	ND	U	0.0769	1.00	ug/L	1	07/2/2012 14:15
Carbon disulfide	ND	U	0.106	1.00	ug/L	1	07/2/2012 14:15
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	07/2/2012 14:15
Chlorobenzene	ND	U	0.116	1.00	ug/L	1	07/2/2012 14:15
Chloroethane	ND	U	0.311	1.00	ug/L	1	07/2/2012 14:15
Chloroform	ND	U	0.139	1.00	ug/L	1	07/2/2012 14:15
Chloromethane	ND	U	0.448	1.00	ug/L	1	07/2/2012 14:15
Dibromochloromethane	ND	U	0.134	1.00	ug/L	1	07/2/2012 14:15
Dibromomethane	ND	U	0.168	1.00	ug/L	1	07/2/2012 14:15
Dichlorodifluoromethane	ND	U	0.171	5.00	ug/L	1	07/2/2012 14:15

Print Date: 07/06/2012

N.C. Certification # 481

Results of **KEP-GW-032-003**

Client Sample ID: **KEP-GW-032-003**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047004-A
Lab Project ID: 31202047

Collection Date: 06/27/2012 13:45
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	07/2/2012 14:15
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	07/2/2012 14:15
Diisopropyl Ether	ND	U	0.294	1.00	ug/L	1	07/2/2012 14:15
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	07/2/2012 14:15
Hexachlorobutadiene	ND	U	0.0792	1.00	ug/L	1	07/2/2012 14:15
Isopropylbenzene (Cumene)	ND	U	0.0869	1.00	ug/L	1	07/2/2012 14:15
Methyl iodide	ND	U	0.115	1.00	ug/L	1	07/2/2012 14:15
Methylene chloride	ND	U	0.152	5.00	ug/L	1	07/2/2012 14:15
Naphthalene	ND	U	0.0855	1.00	ug/L	1	07/2/2012 14:15
Styrene	ND	U	0.102	1.00	ug/L	1	07/2/2012 14:15
Tetrachloroethene	ND	U	0.155	1.00	ug/L	1	07/2/2012 14:15
Toluene	ND	U	0.133	1.00	ug/L	1	07/2/2012 14:15
Trichloroethene	ND	U	0.125	1.00	ug/L	1	07/2/2012 14:15
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1	07/2/2012 14:15
Vinyl acetate	ND	U	0.882	2.00	ug/L	1	07/2/2012 14:15
Vinyl chloride	ND	U	0.124	1.00	ug/L	1	07/2/2012 14:15
cis-1,2-Dichloroethene	ND	U	0.136	1.00	ug/L	1	07/2/2012 14:15
m,p-Xylene	ND	U	0.182	2.00	ug/L	1	07/2/2012 14:15
n-Propylbenzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 14:15
o-Xylene	ND	U	0.0874	1.00	ug/L	1	07/2/2012 14:15
sec-Butylbenzene	ND	U	0.112	1.00	ug/L	1	07/2/2012 14:15
tert-Butyl methyl ether (MTBE)	ND	U	0.144	1.00	ug/L	1	07/2/2012 14:15
tert-Butylbenzene	ND	U	0.0855	1.00	ug/L	1	07/2/2012 14:15
trans-1,2-Dichloroethene	ND	U	0.223	1.00	ug/L	1	07/2/2012 14:15
Surrogates							
1,2-Dichloroethane-d4	80.0			64.0-140	%	1	07/2/2012 14:15
4-Bromofluorobenzene	90.0			85.0-115	%	1	07/2/2012 14:15
Toluene d8	99.0			82.0-117	%	1	07/2/2012 14:15

Batch Information

Analytical Batch: **VMS2340**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**
Analytical Date/Time: **07/02/2012 14:15**

Prep Batch: **VXX3562**
Prep Method: **SW-846 5030B**
Prep Date/Time: **07/02/2012 08:00**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 07/06/2012

N.C. Certification # 481

Results of **KEP-GW-032-003**

Client Sample ID: **KEP-GW-032-003**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047004-D
Lab Project ID: 31202047

Collection Date: 06/27/2012 13:45
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,4 Dioxane	**0.223**	J	0.181	2.03	ug/L	1	07/3/2012 14:40
Surrogates							
Nitrobenzene-d5	88.8			46.0-118	%	1	07/3/2012 14:40

Batch Information

Analytical Batch: **XMS1584**
Analytical Method: **SW-846 8270D**
Instrument: **MSD6**
Analyst: **CMP**
Analytical Date/Time: **07/03/2012 14:40**

Prep Batch: **XXX2769**
Prep Method: **SW-846 3520C**
Prep Date/Time: **07/02/2012 10:13**
Prep Initial Wt./Vol.: **986 mL**
Prep Extract Vol: **1 mL**

Print Date: 07/06/2012

N.C. Certification # 481

Results of **KEP-GW-030-003**

Client Sample ID: **KEP-GW-030-003**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047005-A
Lab Project ID: 31202047

Collection Date: 06/27/2012 14:40
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.104	1.00	ug/L	1	07/2/2012 14:40
1,1,1-Trichloroethane	**1.51**		0.123	1.00	ug/L	1	07/2/2012 14:40
1,1,2,2-Tetrachloroethane	ND	U	0.156	1.00	ug/L	1	07/2/2012 14:40
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	07/2/2012 14:40
1,1-Dichloroethane	**1.56**		0.165	1.00	ug/L	1	07/2/2012 14:40
1,1-Dichloroethene	**35.6**		0.212	1.00	ug/L	1	07/2/2012 14:40
1,1-Dichloropropene	ND	U	0.0863	1.00	ug/L	1	07/2/2012 14:40
1,2,3-Trichlorobenzene	ND	U	0.110	1.00	ug/L	1	07/2/2012 14:40
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	07/2/2012 14:40
1,2,4-Trichlorobenzene	ND	U	0.0913	1.00	ug/L	1	07/2/2012 14:40
1,2,4-Trimethylbenzene	ND	U	0.0961	1.00	ug/L	1	07/2/2012 14:40
1,2-Dibromo-3-chloropropane	ND	U	0.748	5.00	ug/L	1	07/2/2012 14:40
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	07/2/2012 14:40
1,2-Dichlorobenzene	ND	U	0.137	1.00	ug/L	1	07/2/2012 14:40
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	07/2/2012 14:40
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1	07/2/2012 14:40
1,3,5-Trimethylbenzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 14:40
1,3-Dichlorobenzene	ND	U	0.103	1.00	ug/L	1	07/2/2012 14:40
1,3-Dichloropropane	ND	U	0.130	1.00	ug/L	1	07/2/2012 14:40
1,4-Dichlorobenzene	ND	U	0.130	1.00	ug/L	1	07/2/2012 14:40
2,2-Dichloropropane	ND	U	0.393	1.00	ug/L	1	07/2/2012 14:40
2-Butanone	ND	U	0.723	25.0	ug/L	1	07/2/2012 14:40
2-Chlorotoluene	ND	U	0.113	1.00	ug/L	1	07/2/2012 14:40
2-Hexanone	ND	U	0.728	5.00	ug/L	1	07/2/2012 14:40
4-Chlorotoluene	ND	U	0.125	1.00	ug/L	1	07/2/2012 14:40
4-Isopropyltoluene	ND	U	0.0769	1.00	ug/L	1	07/2/2012 14:40
4-Methyl-2-pentanone	ND	U	0.558	5.00	ug/L	1	07/2/2012 14:40
Acetone	ND	U	0.864	25.0	ug/L	1	07/2/2012 14:40
Benzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 14:40
Bromobenzene	ND	U	0.110	1.00	ug/L	1	07/2/2012 14:40
Bromochloromethane	ND	U	0.211	1.00	ug/L	1	07/2/2012 14:40
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	07/2/2012 14:40
Bromoform	ND	U	0.0974	1.00	ug/L	1	07/2/2012 14:40
Bromomethane	ND	U	0.237	1.00	ug/L	1	07/2/2012 14:40
n-Butylbenzene	ND	U	0.0769	1.00	ug/L	1	07/2/2012 14:40
Carbon disulfide	ND	U	0.106	1.00	ug/L	1	07/2/2012 14:40
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	07/2/2012 14:40
Chlorobenzene	ND	U	0.116	1.00	ug/L	1	07/2/2012 14:40
Chloroethane	ND	U	0.311	1.00	ug/L	1	07/2/2012 14:40
Chloroform	**0.230**	J	0.139	1.00	ug/L	1	07/2/2012 14:40
Chloromethane	ND	U	0.448	1.00	ug/L	1	07/2/2012 14:40
Dibromochloromethane	ND	U	0.134	1.00	ug/L	1	07/2/2012 14:40
Dibromomethane	ND	U	0.168	1.00	ug/L	1	07/2/2012 14:40
Dichlorodifluoromethane	ND	U	0.171	5.00	ug/L	1	07/2/2012 14:40

Print Date: 07/06/2012

N.C. Certification # 481

Results of **KEP-GW-030-003**

Client Sample ID: **KEP-GW-030-003**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047005-A
Lab Project ID: 31202047

Collection Date: 06/27/2012 14:40
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	07/2/2012 14:40
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	07/2/2012 14:40
Diisopropyl Ether	ND	U	0.294	1.00	ug/L	1	07/2/2012 14:40
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	07/2/2012 14:40
Hexachlorobutadiene	ND	U	0.0792	1.00	ug/L	1	07/2/2012 14:40
Isopropylbenzene (Cumene)	ND	U	0.0869	1.00	ug/L	1	07/2/2012 14:40
Methyl iodide	ND	U	0.115	1.00	ug/L	1	07/2/2012 14:40
Methylene chloride	ND	U	0.152	5.00	ug/L	1	07/2/2012 14:40
Naphthalene	ND	U	0.0855	1.00	ug/L	1	07/2/2012 14:40
Styrene	ND	U	0.102	1.00	ug/L	1	07/2/2012 14:40
Tetrachloroethene	ND	U	0.155	1.00	ug/L	1	07/2/2012 14:40
Toluene	ND	U	0.133	1.00	ug/L	1	07/2/2012 14:40
Trichloroethene	**0.240**	J	0.125	1.00	ug/L	1	07/2/2012 14:40
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1	07/2/2012 14:40
Vinyl acetate	ND	U	0.882	2.00	ug/L	1	07/2/2012 14:40
Vinyl chloride	ND	U	0.124	1.00	ug/L	1	07/2/2012 14:40
cis-1,2-Dichloroethene	ND	U	0.136	1.00	ug/L	1	07/2/2012 14:40
m,p-Xylene	ND	U	0.182	2.00	ug/L	1	07/2/2012 14:40
n-Propylbenzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 14:40
o-Xylene	ND	U	0.0874	1.00	ug/L	1	07/2/2012 14:40
sec-Butylbenzene	ND	U	0.112	1.00	ug/L	1	07/2/2012 14:40
tert-Butyl methyl ether (MTBE)	ND	U	0.144	1.00	ug/L	1	07/2/2012 14:40
tert-Butylbenzene	ND	U	0.0855	1.00	ug/L	1	07/2/2012 14:40
trans-1,2-Dichloroethene	ND	U	0.223	1.00	ug/L	1	07/2/2012 14:40
Surrogates							
1,2-Dichloroethane-d4	91.0			64.0-140	%	1	07/2/2012 14:40
4-Bromofluorobenzene	96.0			85.0-115	%	1	07/2/2012 14:40
Toluene d8	95.0			82.0-117	%	1	07/2/2012 14:40

Batch Information

Analytical Batch: **VMS2340**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**
Analytical Date/Time: **07/02/2012 14:40**

Prep Batch: **VXX3562**
Prep Method: **SW-846 5030B**
Prep Date/Time: **07/02/2012 08:00**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 07/06/2012

N.C. Certification # 481

Results of **KEP-GW-030-003**

Client Sample ID: **KEP-GW-030-003**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047005-D
Lab Project ID: 31202047

Collection Date: 06/27/2012 14:40
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,4 Dioxane	**3.82**		0.180	2.02	ug/L	1	07/3/2012 15:04
Surrogates							
Nitrobenzene-d5	86.5			46.0-118	%	1	07/3/2012 15:04

Batch Information

Analytical Batch: **XMS1584**
Analytical Method: **SW-846 8270D**
Instrument: **MSD6**
Analyst: **CMP**
Analytical Date/Time: **07/03/2012 15:04**

Prep Batch: **XXX2769**
Prep Method: **SW-846 3520C**
Prep Date/Time: **07/02/2012 10:13**
Prep Initial Wt./Vol.: **989 mL**
Prep Extract Vol: **1 mL**

Print Date: 07/06/2012

N.C. Certification # 481

Results of **KEP-GW-031-003**

Client Sample ID: **KEP-GW-031-003**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047006-A
Lab Project ID: 31202047

Collection Date: 06/27/2012 16:00
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.104	1.00	ug/L	1	07/2/2012 15:05
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1	07/2/2012 15:05
1,1,2,2-Tetrachloroethane	ND	U	0.156	1.00	ug/L	1	07/2/2012 15:05
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	07/2/2012 15:05
1,1-Dichloroethane	ND	U	0.165	1.00	ug/L	1	07/2/2012 15:05
1,1-Dichloroethene	**13.2**		0.212	1.00	ug/L	1	07/2/2012 15:05
1,1-Dichloropropene	ND	U	0.0863	1.00	ug/L	1	07/2/2012 15:05
1,2,3-Trichlorobenzene	ND	U	0.110	1.00	ug/L	1	07/2/2012 15:05
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	07/2/2012 15:05
1,2,4-Trichlorobenzene	ND	U	0.0913	1.00	ug/L	1	07/2/2012 15:05
1,2,4-Trimethylbenzene	ND	U	0.0961	1.00	ug/L	1	07/2/2012 15:05
1,2-Dibromo-3-chloropropane	ND	U	0.748	5.00	ug/L	1	07/2/2012 15:05
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	07/2/2012 15:05
1,2-Dichlorobenzene	ND	U	0.137	1.00	ug/L	1	07/2/2012 15:05
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	07/2/2012 15:05
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1	07/2/2012 15:05
1,3,5-Trimethylbenzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 15:05
1,3-Dichlorobenzene	ND	U	0.103	1.00	ug/L	1	07/2/2012 15:05
1,3-Dichloropropane	ND	U	0.130	1.00	ug/L	1	07/2/2012 15:05
1,4-Dichlorobenzene	ND	U	0.130	1.00	ug/L	1	07/2/2012 15:05
2,2-Dichloropropane	ND	U	0.393	1.00	ug/L	1	07/2/2012 15:05
2-Butanone	ND	U	0.723	25.0	ug/L	1	07/2/2012 15:05
2-Chlorotoluene	ND	U	0.113	1.00	ug/L	1	07/2/2012 15:05
2-Hexanone	ND	U	0.728	5.00	ug/L	1	07/2/2012 15:05
4-Chlorotoluene	ND	U	0.125	1.00	ug/L	1	07/2/2012 15:05
4-Isopropyltoluene	ND	U	0.0769	1.00	ug/L	1	07/2/2012 15:05
4-Methyl-2-pentanone	ND	U	0.558	5.00	ug/L	1	07/2/2012 15:05
Acetone	**2.81**	J	0.864	25.0	ug/L	1	07/2/2012 15:05
Benzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 15:05
Bromobenzene	ND	U	0.110	1.00	ug/L	1	07/2/2012 15:05
Bromochloromethane	ND	U	0.211	1.00	ug/L	1	07/2/2012 15:05
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	07/2/2012 15:05
Bromoform	ND	U	0.0974	1.00	ug/L	1	07/2/2012 15:05
Bromomethane	ND	U	0.237	1.00	ug/L	1	07/2/2012 15:05
n-Butylbenzene	ND	U	0.0769	1.00	ug/L	1	07/2/2012 15:05
Carbon disulfide	**0.530**	J	0.106	1.00	ug/L	1	07/2/2012 15:05
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	07/2/2012 15:05
Chlorobenzene	ND	U	0.116	1.00	ug/L	1	07/2/2012 15:05
Chloroethane	ND	U	0.311	1.00	ug/L	1	07/2/2012 15:05
Chloroform	**0.250**	J	0.139	1.00	ug/L	1	07/2/2012 15:05
Chloromethane	ND	U	0.448	1.00	ug/L	1	07/2/2012 15:05
Dibromochloromethane	ND	U	0.134	1.00	ug/L	1	07/2/2012 15:05
Dibromomethane	ND	U	0.168	1.00	ug/L	1	07/2/2012 15:05
Dichlorodifluoromethane	ND	U	0.171	5.00	ug/L	1	07/2/2012 15:05

Print Date: 07/06/2012

N.C. Certification # 481

Results of **KEP-GW-031-003**

Client Sample ID: **KEP-GW-031-003**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047006-A
Lab Project ID: 31202047

Collection Date: 06/27/2012 16:00
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	07/2/2012 15:05
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	07/2/2012 15:05
Diisopropyl Ether	ND	U	0.294	1.00	ug/L	1	07/2/2012 15:05
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	07/2/2012 15:05
Hexachlorobutadiene	ND	U	0.0792	1.00	ug/L	1	07/2/2012 15:05
Isopropylbenzene (Cumene)	ND	U	0.0869	1.00	ug/L	1	07/2/2012 15:05
Methyl iodide	ND	U	0.115	1.00	ug/L	1	07/2/2012 15:05
Methylene chloride	ND	U	0.152	5.00	ug/L	1	07/2/2012 15:05
Naphthalene	ND	U	0.0855	1.00	ug/L	1	07/2/2012 15:05
Styrene	ND	U	0.102	1.00	ug/L	1	07/2/2012 15:05
Tetrachloroethene	ND	U	0.155	1.00	ug/L	1	07/2/2012 15:05
Toluene	ND	U	0.133	1.00	ug/L	1	07/2/2012 15:05
Trichloroethene	ND	U	0.125	1.00	ug/L	1	07/2/2012 15:05
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1	07/2/2012 15:05
Vinyl acetate	ND	U	0.882	2.00	ug/L	1	07/2/2012 15:05
Vinyl chloride	ND	U	0.124	1.00	ug/L	1	07/2/2012 15:05
cis-1,2-Dichloroethene	ND	U	0.136	1.00	ug/L	1	07/2/2012 15:05
m,p-Xylene	ND	U	0.182	2.00	ug/L	1	07/2/2012 15:05
n-Propylbenzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 15:05
o-Xylene	ND	U	0.0874	1.00	ug/L	1	07/2/2012 15:05
sec-Butylbenzene	ND	U	0.112	1.00	ug/L	1	07/2/2012 15:05
tert-Butyl methyl ether (MTBE)	ND	U	0.144	1.00	ug/L	1	07/2/2012 15:05
tert-Butylbenzene	ND	U	0.0855	1.00	ug/L	1	07/2/2012 15:05
trans-1,2-Dichloroethene	ND	U	0.223	1.00	ug/L	1	07/2/2012 15:05
Surrogates							
1,2-Dichloroethane-d4	91.0			64.0-140	%	1	07/2/2012 15:05
4-Bromofluorobenzene	95.0			85.0-115	%	1	07/2/2012 15:05
Toluene d8	100			82.0-117	%	1	07/2/2012 15:05

Batch Information

Analytical Batch: **VMS2340**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**
Analytical Date/Time: **07/02/2012 15:05**

Prep Batch: **VXX3562**
Prep Method: **SW-846 5030B**
Prep Date/Time: **07/02/2012 08:00**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 07/06/2012

N.C. Certification # 481

Results of **KEP-GW-031-003**

Client Sample ID: **KEP-GW-031-003**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047006-E
Lab Project ID: 31202047

Collection Date: 06/27/2012 16:00
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,4 Dioxane	**1.10**	J	0.180	2.02	ug/L	1	07/3/2012 15:27
Surrogates							
Nitrobenzene-d5	82.7			46.0-118	%	1	07/3/2012 15:27

Batch Information

Analytical Batch: **XMS1584**
Analytical Method: **SW-846 8270D**
Instrument: **MSD6**
Analyst: **CMP**
Analytical Date/Time: **07/03/2012 15:27**

Prep Batch: **XXX2769**
Prep Method: **SW-846 3520C**
Prep Date/Time: **07/02/2012 10:13**
Prep Initial Wt./Vol.: **990 mL**
Prep Extract Vol: **1 mL**

Print Date: 07/06/2012

N.C. Certification # 481

Results of **Trip Blank (Not on COC)**

Client Sample ID: **Trip Blank (Not on COC)**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047007-A
Lab Project ID: 31202047

Collection Date: 06/27/2012 00:00
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.104	1.00	ug/L	1	07/2/2012 12:34
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1	07/2/2012 12:34
1,1,2,2-Tetrachloroethane	ND	U	0.156	1.00	ug/L	1	07/2/2012 12:34
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	07/2/2012 12:34
1,1-Dichloroethane	ND	U	0.165	1.00	ug/L	1	07/2/2012 12:34
1,1-Dichloroethene	ND	U	0.212	1.00	ug/L	1	07/2/2012 12:34
1,1-Dichloropropene	ND	U	0.0863	1.00	ug/L	1	07/2/2012 12:34
1,2,3-Trichlorobenzene	ND	U	0.110	1.00	ug/L	1	07/2/2012 12:34
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	07/2/2012 12:34
1,2,4-Trichlorobenzene	ND	U	0.0913	1.00	ug/L	1	07/2/2012 12:34
1,2,4-Trimethylbenzene	ND	U	0.0961	1.00	ug/L	1	07/2/2012 12:34
1,2-Dibromo-3-chloropropane	ND	U	0.748	5.00	ug/L	1	07/2/2012 12:34
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	07/2/2012 12:34
1,2-Dichlorobenzene	ND	U	0.137	1.00	ug/L	1	07/2/2012 12:34
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	07/2/2012 12:34
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1	07/2/2012 12:34
1,3,5-Trimethylbenzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 12:34
1,3-Dichlorobenzene	ND	U	0.103	1.00	ug/L	1	07/2/2012 12:34
1,3-Dichloropropane	ND	U	0.130	1.00	ug/L	1	07/2/2012 12:34
1,4-Dichlorobenzene	ND	U	0.130	1.00	ug/L	1	07/2/2012 12:34
2,2-Dichloropropane	ND	U	0.393	1.00	ug/L	1	07/2/2012 12:34
2-Butanone	ND	U	0.723	25.0	ug/L	1	07/2/2012 12:34
2-Chlorotoluene	ND	U	0.113	1.00	ug/L	1	07/2/2012 12:34
2-Hexanone	ND	U	0.728	5.00	ug/L	1	07/2/2012 12:34
4-Chlorotoluene	ND	U	0.125	1.00	ug/L	1	07/2/2012 12:34
4-Isopropyltoluene	ND	U	0.0769	1.00	ug/L	1	07/2/2012 12:34
4-Methyl-2-pentanone	ND	U	0.558	5.00	ug/L	1	07/2/2012 12:34
Acetone	ND	U	0.864	25.0	ug/L	1	07/2/2012 12:34
Benzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 12:34
Bromobenzene	ND	U	0.110	1.00	ug/L	1	07/2/2012 12:34
Bromochloromethane	ND	U	0.211	1.00	ug/L	1	07/2/2012 12:34
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	07/2/2012 12:34
Bromoform	ND	U	0.0974	1.00	ug/L	1	07/2/2012 12:34
Bromomethane	ND	U	0.237	1.00	ug/L	1	07/2/2012 12:34
n-Butylbenzene	ND	U	0.0769	1.00	ug/L	1	07/2/2012 12:34
Carbon disulfide	ND	U	0.106	1.00	ug/L	1	07/2/2012 12:34
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	07/2/2012 12:34
Chlorobenzene	ND	U	0.116	1.00	ug/L	1	07/2/2012 12:34
Chloroethane	ND	U	0.311	1.00	ug/L	1	07/2/2012 12:34
Chloroform	ND	U	0.139	1.00	ug/L	1	07/2/2012 12:34
Chloromethane	ND	U	0.448	1.00	ug/L	1	07/2/2012 12:34
Dibromochloromethane	ND	U	0.134	1.00	ug/L	1	07/2/2012 12:34
Dibromomethane	ND	U	0.168	1.00	ug/L	1	07/2/2012 12:34
Dichlorodifluoromethane	ND	U	0.171	5.00	ug/L	1	07/2/2012 12:34

Print Date: 07/06/2012

N.C. Certification # 481

Results of **Trip Blank (Not on COC)**

Client Sample ID: **Trip Blank (Not on COC)**
Client Project ID: **Kuhlman Electric**
Lab Sample ID: 31202047007-A
Lab Project ID: 31202047

Collection Date: 06/27/2012 00:00
Received Date: 06/29/2012 10:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	07/2/2012 12:34
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	07/2/2012 12:34
Diisopropyl Ether	ND	U	0.294	1.00	ug/L	1	07/2/2012 12:34
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	07/2/2012 12:34
Hexachlorobutadiene	ND	U	0.0792	1.00	ug/L	1	07/2/2012 12:34
Isopropylbenzene (Cumene)	ND	U	0.0869	1.00	ug/L	1	07/2/2012 12:34
Methyl iodide	ND	U	0.115	1.00	ug/L	1	07/2/2012 12:34
Methylene chloride	**0.370**	J	0.152	5.00	ug/L	1	07/2/2012 12:34
Naphthalene	ND	U	0.0855	1.00	ug/L	1	07/2/2012 12:34
Styrene	ND	U	0.102	1.00	ug/L	1	07/2/2012 12:34
Tetrachloroethene	ND	U	0.155	1.00	ug/L	1	07/2/2012 12:34
Toluene	ND	U	0.133	1.00	ug/L	1	07/2/2012 12:34
Trichloroethene	ND	U	0.125	1.00	ug/L	1	07/2/2012 12:34
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1	07/2/2012 12:34
Vinyl acetate	ND	U	0.882	2.00	ug/L	1	07/2/2012 12:34
Vinyl chloride	ND	U	0.124	1.00	ug/L	1	07/2/2012 12:34
cis-1,2-Dichloroethene	ND	U	0.136	1.00	ug/L	1	07/2/2012 12:34
m,p-Xylene	ND	U	0.182	2.00	ug/L	1	07/2/2012 12:34
n-Propylbenzene	ND	U	0.113	1.00	ug/L	1	07/2/2012 12:34
o-Xylene	ND	U	0.0874	1.00	ug/L	1	07/2/2012 12:34
sec-Butylbenzene	ND	U	0.112	1.00	ug/L	1	07/2/2012 12:34
tert-Butyl methyl ether (MTBE)	ND	U	0.144	1.00	ug/L	1	07/2/2012 12:34
tert-Butylbenzene	ND	U	0.0855	1.00	ug/L	1	07/2/2012 12:34
trans-1,2-Dichloroethene	ND	U	0.223	1.00	ug/L	1	07/2/2012 12:34
Surrogates							
1,2-Dichloroethane-d4	93.0			64.0-140	%	1	07/2/2012 12:34
4-Bromofluorobenzene	95.0			85.0-115	%	1	07/2/2012 12:34
Toluene d8	101			82.0-117	%	1	07/2/2012 12:34

Batch Information

Analytical Batch: **VMS2340**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**
Analytical Date/Time: **07/02/2012 12:34**

Prep Batch: **VXX3562**
Prep Method: **SW-846 5030B**
Prep Date/Time: **07/02/2012 08:00**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 07/06/2012

N.C. Certification # 481

Batch Summary

Analytical Method: SW-846 8260B

Prep Method: SW-846 5030B
Prep Batch: VXX3562
Prep Date: 07/02/2012 08:35

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	Analyst
LCS for HBN 25253 [VXX/3562]	78920	07/02/2012 09:39	VMS2340	MSD8	DVO
LCSD for HBN 25253 [VXX/3562]	78921	07/02/2012 10:54	VMS2340	MSD8	DVO
MB for HBN 25253 [VXX/3562]	78922	07/02/2012 11:44	VMS2340	MSD8	DVO
Trip Blank (Not on COC)	31202047007	07/02/2012 12:34	VMS2340	MSD8	DVO
BD-1	31202047001	07/02/2012 12:59	VMS2340	MSD8	DVO
KEP-GW-034-004	31202047002	07/02/2012 13:24	VMS2340	MSD8	DVO
KEP-GW-033-003	31202047003	07/02/2012 13:49	VMS2340	MSD8	DVO
KEP-GW-032-003	31202047004	07/02/2012 14:15	VMS2340	MSD8	DVO
KEP-GW-030-003	31202047005	07/02/2012 14:40	VMS2340	MSD8	DVO
KEP-GW-031-003	31202047006	07/02/2012 15:05	VMS2340	MSD8	DVO

Method Blank

Blank ID: MB for HBN 25253 [VXX/3562] Matrix: Water
Blank Lab ID: 78922
QC for Samples:
31202047001, 31202047002, 31202047003, 31202047004, 31202047005, 31202047006, 31202047007

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Dichlorodifluoromethane	ND	U	0.171	5.00	ug/L	1
Chloromethane	ND	U	0.448	1.00	ug/L	1
Vinyl chloride	ND	U	0.124	1.00	ug/L	1
Bromomethane	ND	U	0.237	1.00	ug/L	1
Chloroethane	ND	U	0.311	1.00	ug/L	1
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1
1,1-Dichloroethene	ND	U	0.212	1.00	ug/L	1
Acetone	ND	U	0.864	25.0	ug/L	1
Methylene chloride	ND	U	0.152	5.00	ug/L	1
trans-1,2-Dichloroethene	ND	U	0.223	1.00	ug/L	1
tert-Butyl methyl ether (MTBE)	ND	U	0.144	1.00	ug/L	1
1,1-Dichloroethane	ND	U	0.165	1.00	ug/L	1
Diisopropyl Ether	ND	U	0.294	1.00	ug/L	1
2,2-Dichloropropane	ND	U	0.393	1.00	ug/L	1
cis-1,2-Dichloroethene	ND	U	0.136	1.00	ug/L	1
2-Butanone	ND	U	0.723	25.0	ug/L	1
Bromochloromethane	ND	U	0.211	1.00	ug/L	1
Chloroform	ND	U	0.139	1.00	ug/L	1
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1
1,1-Dichloropropene	ND	U	0.0863	1.00	ug/L	1
Benzene	ND	U	0.113	1.00	ug/L	1
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1
Trichloroethene	ND	U	0.125	1.00	ug/L	1
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1
Dibromomethane	ND	U	0.168	1.00	ug/L	1
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1
4-Methyl-2-pentanone	ND	U	0.558	5.00	ug/L	1
Toluene	ND	U	0.133	1.00	ug/L	1
Methyl iodide	ND	U	0.115	1.00	ug/L	1
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1
Vinyl acetate	ND	U	0.882	2.00	ug/L	1
Carbon disulfide	ND	U	0.106	1.00	ug/L	1
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1
Tetrachloroethene	ND	U	0.155	1.00	ug/L	1
1,3-Dichloropropane	ND	U	0.130	1.00	ug/L	1
2-Hexanone	ND	U	0.728	5.00	ug/L	1
Dibromochloromethane	ND	U	0.134	1.00	ug/L	1
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1
Chlorobenzene	ND	U	0.116	1.00	ug/L	1
1,1,1,2-Tetrachloroethane	ND	U	0.104	1.00	ug/L	1

Print Date: 07/06/2012 N.C. Certification # 481

Method Blank

Blank ID: MB for HBN 25253 [VXX/3562] Matrix: Water
Blank Lab ID: 78922
QC for Samples:
31202047001, 31202047002, 31202047003, 31202047004, 31202047005, 31202047006, 31202047007

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Bromoform	ND	U	0.0974	1.00	ug/L	1
Bromobenzene	ND	U	0.110	1.00	ug/L	1
1,1,2,2-Tetrachloroethane	ND	U	0.156	1.00	ug/L	1
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1
m,p-Xylene	ND	U	0.182	2.00	ug/L	1
Styrene	ND	U	0.102	1.00	ug/L	1
o-Xylene	ND	U	0.0874	1.00	ug/L	1
Isopropylbenzene (Cumene)	ND	U	0.0869	1.00	ug/L	1
n-Propylbenzene	ND	U	0.113	1.00	ug/L	1
2-Chlorotoluene	ND	U	0.113	1.00	ug/L	1
4-Chlorotoluene	ND	U	0.125	1.00	ug/L	1
1,3,5-Trimethylbenzene	ND	U	0.113	1.00	ug/L	1
tert-Butylbenzene	ND	U	0.0855	1.00	ug/L	1
1,2,4-Trimethylbenzene	ND	U	0.0961	1.00	ug/L	1
sec-Butylbenzene	ND	U	0.112	1.00	ug/L	1
1,3-Dichlorobenzene	ND	U	0.103	1.00	ug/L	1
4-Isopropyltoluene	ND	U	0.0769	1.00	ug/L	1
1,4-Dichlorobenzene	ND	U	0.130	1.00	ug/L	1
1,2-Dichlorobenzene	ND	U	0.137	1.00	ug/L	1
n-Butylbenzene	ND	U	0.0769	1.00	ug/L	1
1,2-Dibromo-3-chloropropane	ND	U	0.748	5.00	ug/L	1
1,2,4-Trichlorobenzene	ND	U	0.0913	1.00	ug/L	1
Hexachlorobutadiene	ND	U	0.0792	1.00	ug/L	1
Naphthalene	ND	U	0.0855	1.00	ug/L	1
1,2,3-Trichlorobenzene	ND	U	0.110	1.00	ug/L	1
Surrogates						
1,2-Dichloroethane-d4	101			64.0-140	%	1
Toluene d8	97.0			82.0-117	%	1
4-Bromofluorobenzene	94.0			85.0-115	%	1

Batch Information

Analytical Batch: VMS2340
Analytical Method: SW-846 8260B
Instrument: MSD8
Analyst: DVO
Analytical Date/Time: 7/2/2012 11:44:00AM

Prep Batch: VXX3562
Prep Method: SW-846 5030B
Prep Date/Time: 7/2/2012 8:35:01AM
Prep Initial Wt./Vol.: 40 mL
Prep Extract Vol: 40 mL

Print Date: 07/06/2012 N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS for HBN 25253 [VXX/3562]
Blank Spike Lab ID: 78920
Date Analyzed: 07/02/2012 09:39

Spike Duplicate ID: LCSD for HBN 25253 [VXX/3562]
Spike Duplicate Lab ID: 78921
Date Analyzed: 07/02/2012 10:54
Matrix: Water

QC for Samples: 31202047001, 31202047002, 31202047003, 31202047004, 31202047005, 31202047006, 31202047007

Results by **SW-846 8260B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Dichlorodifluoromethane	5.00	5.41	108	5.00	5.22	104	33.0-170	3.6	30.00
Chloromethane	5.00	5.12	102	5.00	5.14	103	57.0-132	0.39	30.00
Vinyl chloride	5.00	4.91	98	5.00	5.27	105	59.0-138	7.1	30.00
Bromomethane	5.00	6.21	124	5.00	5.99	120	51.0-134	3.6	30.00
Chloroethane	5.00	5.27	105	5.00	5.91	118	64.0-145	11	30.00
Trichlorofluoromethane	5.00	4.93	99	5.00	5.26	105	64.0-133	6.5	30.00
1,1-Dichloroethene	5.00	4.59	92	5.00	5.69	114	71.0-128	21	30.00
Acetone	25.0	23.7	95	25.0	27.8	111	52.0-140	16	30.00
Methylene chloride	5.00	4.86	97	5.00	5.21	104	70.0-113	7.0	30.00
trans-1,2-Dichloroethene	5.00	5.02	100	5.00	5.39	108	57.0-138	7.1	30.00
tert-Butyl methyl ether (MTBE)	5.00	4.65	93	5.00	5.79	116	47.0-142	22	30.00
1,1-Dichloroethane	5.00	4.63	93	5.00	5.62	112	68.0-133	19	30.00
Diisopropyl Ether	5.00	4.76	95	5.00	5.13	103	66.0-132	7.5	30.00
2,2-Dichloropropane	5.00	4.77	95	5.00	6.17	123	74.0-125	26	30.00
cis-1,2-Dichloroethene	5.00	4.90	98	5.00	5.84	117	73.0-128	18	30.00
2-Butanone	25.0	21.1	85	25.0	24.2	97	58.0-134	14	30.00
Bromochloromethane	5.00	4.75	95	5.00	5.59	112	73.0-128	16	30.00
Chloroform	5.00	4.81	96	5.00	5.71	114	74.0-124	17	30.00
1,1,1-Trichloroethane	5.00	4.82	96	5.00	5.31	106	76.0-119	9.7	30.00
Carbon tetrachloride	5.00	4.63	93	5.00	5.48	110	75.0-120	17	30.00
1,1-Dichloropropene	5.00	5.11	102	5.00	5.34	107	76.0-124	4.4	30.00
Benzene	5.00	4.92	98	5.00	5.30	106	76.0-124	7.4	30.00
1,2-Dichloroethane	5.00	4.41	88	5.00	5.42	108	76.0-119	21	30.00
Trichloroethene	5.00	5.03	101	5.00	5.18	104	74.0-121	2.9	30.00
1,2-Dichloropropane	5.00	4.54	91	5.00	5.29	106	74.0-124	15	30.00
Dibromomethane	5.00	4.62	92	5.00	5.49	110	71.0-128	17	30.00
Bromodichloromethane	5.00	4.36	87	5.00	5.18	104	72.0-120	17	30.00
cis-1,3-Dichloropropene	5.00	4.87	97	5.00	5.66	113	73.0-122	15	30.00
4-Methyl-2-pentanone	25.0	21.5	86	25.0	25.1	100	65.0-124	15	30.00
Toluene	5.00	4.82	96	5.00	5.27	105	75.0-123	8.9	30.00
Methyl iodide	5.00	4.61	92	5.00	4.75	95	55.0-123	3.0	30.00
trans-1,3-Dichloropropene	5.00	4.65	93	5.00	5.25	105	70.0-125	12	30.00
Vinyl acetate	12.5	11.8	94	12.5	12.8	102	40.0-141	8.1	30.00
Carbon disulfide	5.00	5.06	101	5.00	5.06	101	65.0-132	0.0	30.00

Blank Spike Summary

Blank Spike ID: LCS for HBN 25253 [VXX/3562]
Blank Spike Lab ID: 78920
Date Analyzed: 07/02/2012 09:39

Spike Duplicate ID: LCSD for HBN 25253 [VXX/3562]
Spike Duplicate Lab ID: 78921
Date Analyzed: 07/02/2012 10:54
Matrix: Water

QC for Samples: 31202047001, 31202047002, 31202047003, 31202047004, 31202047005, 31202047006, 31202047007

Results by **SW-846 8260B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,2-Trichloroethane	5.00	5.19	104	5.00	5.33	107	76.0-121	2.7	30.00
Tetrachloroethene	5.00	5.34	107	5.00	5.15	103	59.0-112	3.6	30.00
1,3-Dichloropropane	5.00	5.15	103	5.00	5.12	102	74.0-120	0.58	30.00
2-Hexanone	25.0	22.7	91	25.0	23.4	93	56.0-133	3.0	30.00
Dibromochloromethane	5.00	5.33	107	5.00	5.11	102	67.0-122	4.2	30.00
1,2-Dibromoethane	5.00	4.92	98	5.00	4.75	95	74.0-119	3.5	30.00
Chlorobenzene	5.00	5.17	103	5.00	5.04	101	74.0-120	2.5	30.00
1,1,1,2-Tetrachloroethane	5.00	5.06	101	5.00	4.88	98	73.0-119	3.6	30.00
Bromoform	5.00	5.32	106	5.00	5.04	101	62.0-127	5.4	30.00
Bromobenzene	5.00	5.56	111	5.00	5.17	103	75.0-120	7.3	30.00
1,1,2,2-Tetrachloroethane	5.00	5.05	101	5.00	5.13	103	68.0-129	1.6	30.00
1,2,3-Trichloropropane	5.00	4.92	98	5.00	5.18	104	67.0-126	5.1	30.00
Ethyl Benzene	5.00	4.99	100	5.00	4.95	99	76.0-123	0.80	30.00
m,p-Xylene	10.0	10.4	104	10.0	9.79	98	76.0-124	6.0	30.00
Styrene	5.00	5.13	103	5.00	4.76	95	76.0-121	7.5	30.00
o-Xylene	5.00	5.79	116	5.00	4.96	99	75.0-124	15	30.00
Isopropylbenzene (Cumene)	5.00	5.56	111	5.00	4.90	98	77.0-120	13	30.00
n-Propylbenzene	5.00	5.69	114	5.00	5.04	101	77.0-123	12	30.00
2-Chlorotoluene	5.00	5.84	117	5.00	5.11	102	74.0-127	13	30.00
4-Chlorotoluene	5.00	5.34	107	5.00	4.88	98	77.0-123	9.0	30.00
1,3,5-Trimethylbenzene	5.00	5.45	109	5.00	5.23	105	76.0-122	4.1	30.00
tert-Butylbenzene	5.00	4.93	99	5.00	4.94	99	67.0-122	0.20	30.00
1,2,4-Trimethylbenzene	5.00	5.31	106	5.00	5.19	104	76.0-124	2.3	30.00
sec-Butylbenzene	5.00	5.03	101	5.00	5.14	103	78.0-121	2.2	30.00
1,3-Dichlorobenzene	5.00	5.25	105	5.00	5.62	112	75.0-120	6.8	30.00
4-Isopropyltoluene	5.00	4.99	100	5.00	5.06	101	77.0-120	1.4	30.00
1,4-Dichlorobenzene	5.00	4.95	99	5.00	4.96	99	70.0-125	0.20	30.00
1,2-Dichlorobenzene	5.00	4.93	99	5.00	4.96	99	76.0-118	0.61	30.00
n-Butylbenzene	5.00	5.24	105	5.00	5.08	102	78.0-118	3.1	30.00
1,2-Dibromo-3-chloropropane	30.0	30.4	101	30.0	29.9	100	62.0-130	1.7	30.00
1,2,4-Trichlorobenzene	5.00	4.95	99	5.00	4.89	98	72.0-119	1.2	30.00
Hexachlorobutadiene	5.00	5.19	104	5.00	4.97	99	69.0-121	4.3	30.00
Naphthalene	5.00	5.11	102	5.00	4.80	96	67.0-122	6.3	30.00
1,2,3-Trichlorobenzene	5.00	5.20	104	5.00	5.11	102	68.0-123	1.7	30.00

Blank Spike Summary

Blank Spike ID: LCS for HBN 25253 [VXX/3562]
Blank Spike Lab ID: 78920
Date Analyzed: 07/02/2012 09:39

Spike Duplicate ID: LCSD for HBN 25253 [VXX/3562]
Spike Duplicate Lab ID: 78921
Date Analyzed: 07/02/2012 10:54
Matrix: Water

QC for Samples: 31202047001, 31202047002, 31202047003, 31202047004, 31202047005, 31202047006, 31202047007

Results by **SW-846 8260B**

Parameter	Blank Spike (%) Spike	Result	Rec (%)	Spike Duplicate (%) Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-d4			91			107	64.0-140		
Toluene d8			95			104	82.0-117		
4-Bromofluorobenzene			112			97	85.0-115		

Batch Information

Analytical Batch: **VMS2340**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX3562**
Prep Method: **SW-846 5030B**
Prep Date/Time: **07/02/2012 08:35**
Spike Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**
Dupe Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**

Batch Summary

Analytical Method: SW-846 8270D

Prep Method: SW-846 3520C
Prep Batch: XXX2769
Prep Date: 07/02/2012 10:13

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	Analyst
MB for HBN 25265 [XXX/2769]	78949	07/03/2012 11:54	XMS1584	MSD6	CMP
LCS for HBN 25265 [XXX/2769]	78950	07/03/2012 12:18	XMS1584	MSD6	CMP
KEP-GW-034-004	31202047002	07/03/2012 13:06	XMS1584	MSD6	CMP
KEP-GW-034-004(78734DUP)	78951	07/03/2012 13:29	XMS1584	MSD6	CMP
KEP-GW-033-003	31202047003	07/03/2012 13:53	XMS1584	MSD6	CMP
KEP-GW-033-003(78735MS)	78952	07/03/2012 14:16	XMS1584	MSD6	CMP
KEP-GW-032-003	31202047004	07/03/2012 14:40	XMS1584	MSD6	CMP
KEP-GW-030-003	31202047005	07/03/2012 15:04	XMS1584	MSD6	CMP
KEP-GW-031-003	31202047006	07/03/2012 15:27	XMS1584	MSD6	CMP

Method Blank

Blank ID: MB for HBN 25265 [XXX/2769]
Matrix: Water
Blank Lab ID: 78949
QC for Samples:
31202047002, 31202047003, 31202047004, 31202047005, 31202047006

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
1,4 Dioxane	ND	U	0.178	2.00	ug/L	1
Surrogates						
2-Fluorophenol	44.5			33.1-118	%	1
Phenol-d6	69.3			49.0-120	%	1
Nitrobenzene-d5	72.8			46.0-118	%	1
2-Fluorobiphenyl	62.6			50.0-107	%	1
2,4,6-Tribromophenol	63.9			29.3-152	%	1
Terphenyl-d14	72.7			22.1-142	%	1

Batch Information

Analytical Batch: XMS1584
Analytical Method: SW-846 8270D
Instrument: MSD6
Analyst: CMP
Analytical Date/Time: 7/3/2012 11:54:00AM

Prep Batch: XXX2769
Prep Method: SW-846 3520C
Prep Date/Time: 7/2/2012 10:13:53AM
Prep Initial Wt./Vol.: 1000 mL
Prep Extract Vol: 1 mL

Print Date: 07/06/2012
N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS for HBN 25265 [XXX/2769]
Blank Spike Lab ID: 78950
Date Analyzed: 07/03/2012 12:18

Matrix: Water

QC for Samples: 31202047002, 31202047003, 31202047004, 31202047005, 31202047006

Results by **SW-846 8270D**

Blank Spike (ug/L)

Parameter	Spike	Result	Rec (%)	CL
1,4 Dioxane	10.0	5.32	53	35.0-100
Surrogates				
2-Fluorophenol			69	33.1-118
Phenol-d6			92.1	49.0-120
Nitrobenzene-d5			94.8	46.0-118
2-Fluorobiphenyl			79.7	50.0-107
2,4,6-Tribromophenol			93.6	29.3-152
Terphenyl-d14			91.1	22.1-142

Batch Information

Analytical Batch: **XMS1584**
Analytical Method: **SW-846 8270D**
Instrument: **MSD6**
Analyst: **CMP**

Prep Batch: **XXX2769**
Prep Method: **SW-846 3520C**
Prep Date/Time: **07/02/2012 10:13**
Spike Init Wt./Vol.: **1000 mL** Extract Vol: **1 mL**
Dupe Init Wt./Vol.: Extract Vol:

Matrix Spike Summary

Original Sample ID: 31202047003 (KEP-GW-033-003)
MS Sample ID: 78952
MSD Sample ID:

Analysis Date: 07/03/2012 13:53
Analysis Date: 07/03/2012 14:16
Analysis Date:
Matrix: Water

QC for Samples: 31202047002, 31202047003, 31202047004, 31202047005, 31202047006

Results by **SW-846 8270D**

		Matrix Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,4 Dioxane	ND	10.1	5.45	54				35.0-100		
Surrogates										
Nitrobenzene-d5				102				46.0-118		

Batch Information

Analytical Batch: **XMS1584**
Analytical Method: **SW-846 8270D**
Instrument: **MSD6**
Analyst: **CMP**

Prep Batch: **XXX2769**
Prep Method: **SW-846 3520C**
Prep Date/Time: **07/02/2012 10:13**
MS Init Wt./Vol.: **989 mL** Extract Vol.: **1 mL**
MSD Init Wt./Vol.: Extract Vol.:

Print Date: 07/06/2012

N.C. Certification # 481

Duplicate Sample Summary

Original Sample ID: 31202047002-D
Duplicate Sample ID: 78951

Analysis Date: 07/03/2012 13:06
Analysis Date: 07/03/2012 13:29
Matrix: Water

QC for Samples: 31202047002, 31202047003, 31202047004, 31202047005, 31202047006

Results by **SW-846 8270D**

PARAMETER	Original (ug/L)	Qual	Duplicate (ug/L)	Qual	RPD (%)	RPD CL
1,4 Dioxane	1.18	J	1.25	J	5.8	30.00

Batch Information

Analytical Batch: XMS1584
Analytical Method: SW-846 8270D
Instrument: MSD6
Analyst: CMP

Prep Batch: XXX2769
Prep Method: SW-846 3520C
Prep Date/Time: 07/02/2012 10:13

Print Date: 07/06/2012

N.C. Certification # 481

SGS

CHAIN OF CUSTODY RECORD
SGS North America Inc.

Locations Nationwide
- Alaska
- Maryland
- New Jersey
- New York
- North Carolina
- Ohio

www.us.sgs.com

104993

WO# 31202047

(1)

CLIENT: Environmental Management Services (EMS

CONTACT: Ethan Allen PHONE NO:(601) 544-3674

PROJECT: Kuhlman Electric SITE/PWSID#: KUHB12002

REPORTS TO: EMS
PO Box 15369 Hattiesburg MS 39404
FAX NO.:(601) 544-0504

INVOICE TO: PO Box 15369 Hattiesburg, MS 39404 QUOTE #:

P.O. NUMBER:

SGS Reference: 31202047

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C=COMP G=GRAB)	Preservatives Used	Analysis Required (3) VOCs 8260	1,4-Dioxane 8270D	REMARKS
	BD-1	6-27-12	9:30	water	3	G		✓		
	KEP-GW-034-004	6-27-12	10:00	"	5	"		✓	✓	
	KEP-GW-033-003	6-27-12	11:45	"	5	"		✓	✓	
	KEP-GW-032-003	6-27-12	13:45	"	5	"		✓	✓	
	KEP-GW-030-003	6-27-12	14:40	"	5	"		✓	✓	
	KEP-GW-031-003	6-27-12	16:00	"	7	"		✓	✓	

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
Alan Mun	6-28-12	17:00	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:
	6/29/12	1020 HH60 Utah	

(4)

Shipping Carrier: FedEx

Shipping Ticket No: 793736746063

Samples Received Cold? (Circle) YES NO

Temperature°C: 4.2°C

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Special Instructions:

Requested Turnaround Time:

☐ RUSH _____ (Date Needed) ☐ STD

❑ 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
❑ 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

White - Retained by Lab
Pink - Retained by Client

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: **Environmental Mangement Services** Work Order No.: **31202047**

1. _X_ Shipped
   ___ Hand Delivered

2. _X_ COC Present on Receipt
   ___ No COC
   ___ Additional Transmittal Forms

3. _X_ Custody Tape on Container
   ___ No Custody Tape

4. _X_ Samples Intact
   ___ Samples Broken / Leaking

5. _X_ Chilled on Receipt Actual Temp.(s) in °C: 4.2
   ___ Ambient on Receipt
   ___ Walk-in on Ice; Coming down to temp.
   ___ Received Outside of Temperature Specifications

6. _X_ Sufficient Sample Submitted
   ___ Insufficient Sample Submitted

7. ___ Chlorine absent
   ___ HNO3 < 2
   ___ HCL < 2
   ___ Additional Preservatives verified (see notes)

8. _X_ Received Within Holding Time
   ___ Not Received Within Holding Time

9. _X_ No Discrepancies Noted
   ___ Discrepancies Noted
   ___ NCDENR notified of Discrepancies*

10. _X_ No Headspace present in VOC vials
    ___ Headspace present in VOC vials >6mm

Notes:

Comments:

Inspected and Logged in by: JJ

Date: Fri-6/29/12 00:00

*NCDENR must be notified when collection, holding time or preservation requirements are not met.