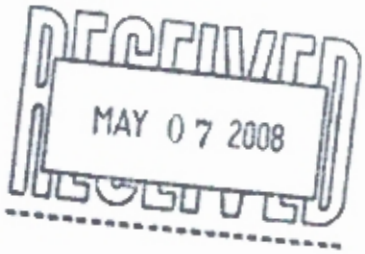

May 6, 2008

Robert Martin
Martin and Slagle
P.O. Box 1023
Black Mountain, NC 28711

Dear Mr. Martin,

Enclosed is the Technical Memorandum for VOC work recently performed at the Kuhlman Electric Corporation (KEC) facility in Crystal Springs, MS. If you have any questions concerning this information, give me a call.

Sincerely,

Kari Ann Kubale

Joseph Kubale

Enclosure

Environmental Chemistry Consulting Services, Inc.
2525 Advance Road • Madison, WI 53718 • Phone (608) 221-8700 • FAX (608) 221-4889

Technical Memorandum

Kuhlman Electric Corporation (KEC)

Crystal Springs, Mississippi

TECHNICAL MEMORANDUM

May 6, 2008

To: Robert Martin
Martin and Slagle

From: Joseph Kubale
ECCS

Re: Analytical Methods
Volatile Organic Compounds (VOC) , 1,4-Dioxane
Kuhlman Electric Corporation (KEC)
Crystal Springs, MS

Introduction

This Technical Memorandum provides documentation of the analytical test methods used to analyze water samples collected in March 2008 during the city well groundwater sampling event near the Kuhlman Electric Corporation (KEC) facility in Crystal Springs, MS. The samples were analyzed by purge and trap GC/MSD for the VOCs listed below and by direct injection GC/MSD/SIM for 1,4-Dioxane.

Narrative

Waters
Water samples were analyzed for VOCs directly by purge and trap GC/MSD and for 1,4-Dioxane by direct injection GC/MSD/SIM.

The following report limits were used for water samples. The reporting limit units are in ug/L.

	Purge and Trap GC/MSD
Dichlorodifluoromethane	1.0
Chloromethane	1.0
Vinyl chloride	1.0
Bromomethane	1.0
Chloroethane	1.0
Trichlorofluoromethane	1.0

	Purge and Trap GC/MSD
1,1-Dichloroethene	1.0
Methylene chloride	1.0
trans-1,2-Dichloroethene	1.0
1,1-Dichloroethane	1.0
cis-1,2-Dichloroethene	1.0
2,2-Dichloropropane	1.0
Bromochloromethane	1.0
Chloroform	1.0
1,1,1-Trichloroethane	1.0
1,1-Dichloropropene	1.0
Carbon tetrachloride	1.0
Benzene	1.0
1,2-Dichloroethane	1.0
Trichloroethene	1.0
1,2-Dichloropropane	1.0
Dibromomethane	1.0
Bromodichloromethane	1.0
cis-1,3-Dichloropropene	1.0
Toluene	1.0
trans-1,3-Dichloropropene	1.0
1,1,2-Trichloroethane	1.0
Tetrachloroethene	1.0
1,3-Dichloropropane	2.0
Dibromochloromethane	1.0
1,2-Dibromoethane	1.0
Chlorobenzene	1.0
1,1,1,2-Tetrachloroethane	1.0
Ethyl benzene	1.0
Xylenes, total	2.0
Styrene	1.0
Bromoform	2.0
Isopropylbenzene	1.0
1,1,2,2-Tetrachloroethane	2.0
Bromobenzene	1.0
1,2,3-Trichloropropane	2.0
n-Propylbenzene	1.0
2-Chlorotoluene	1.0
1,3,5-Trimethylbenzene	1.0
4-Chlorotoluene	1.0
tert-Butylbenzene	1.0
1,2,4-Trimethylbenzene	1.0
sec-Butylbenzene	1.0
1,3-Dichlorobenzene	1.0
p-Isopropyltoluene	1.0
1,4-Dichlorobenzene	1.0
n-Butylbenzene	1.0
1,2-Dichlorobenzene	1.0
1,2-Dibromo-3-chloropropane	2.0
1,3,5-Trichlorobenzene	1.0
1,2,4-Trichlorobenzene	1.0
Hexachlorobutadiene	1.0

	Purge and Trap GC/MSD
Naphthalene	3.0
1,2,3-Trichlorobenzene	1.0
	Direct Injection GC/MSD/SIM
1,4-Dioxane	1.0

A summary of volatile test results is provided in Table 1. A summary of 1,4-Dioxane results is provided in table 2. A summary of method blanks and matrix spike/matrix spike duplicate data is provided in Table 3 and 4, respectively.

In addition copies of the chain of custody sheets and shipping sheets can be found in appendix A through C.

A) Chain of custody sheets for samples
B) FEDEX shipping label for Columbia Analytical Services, Inc.
C) Chain of custody sheets for samples sent to Columbia Analytical Services, Inc.

VOC Method Summary

Water Samples

Water samples were provided by the client to the lab in 40mL VOC vials. A 10mL aliquot of the sample was withdrawn from the vial with a 10mL Luer-Lok ™ syringe. 10 µL of a 25µg/mL surrogate and internal standard solution was added to the sample in the 10 mL syringe. The sample was then immediately loaded onto a Tekmar ALS 2016 autosampler with a Tekmar LSC 2000 purge and trap concentrator for GC\MSD analysis.

GC/MSD Procedure:

Identification of target compounds was done by matching retention times and mass spectra of peaks found in samples to those found in a VOC calibration standard using the internal standards as time reference peaks. Quantitation was performed by the internal standard technique using a seven point standard curve generated from 5, 10, 20, 50, 100, 250, and 500 ng standards. These levels equate to 0.5, 1.0, 2.0, 5.0, 10, 25 and 50 µg/L for water samples.

A Hewlett-Packard 5890 gas chromatograph with a 30m x 0.32mm RTX-624 micro-capillary column interfaced to a Hewlett-Packard 5972 MSD was used. The data system included a Hewlett-Packard Enviroquant chromatography workstation for data handling.

Quality control consisted of the following items:

- Initial calibration with % relative standard deviation less than 15% of individual response factors obtained from analysis of calibration standards
- Continuing Calibration Verification standards analyzed at a frequency of every ten samples or less
- Surrogate standard additions to samples
- Blank and LCS samples analyzed every twenty samples or less with a minimum of one per day per matrix.
- MS/MSD samples analyzed every twenty samples or less per matrix.
- Information documented in Logbook 150.

1,4-Dioxane Method Summary

Water Samples

Water samples were provided by the client to the lab in 1L amber bottle. 200 grams of sample was transferred to the filtering apparatus, spiked with 40uL 25ug/mL surrogate solution and 40uL 25ug/mL spike solution (if necessary) then filtered through a 3M 2272 activated carbon disk. The activated carbon disk was placed in a 3 dram vial containing 8mL methanol and sonicated for 15 minutes. A 0.8mL aliquot of the sample extract was spiked with 10uL 25ug/mL internal standard solution and analyzed by direct inject GC/MSD/SIM.

GC/MSD Procedure:

Identification of the target compound was done by matching retention times, quantitaion and qualifier ion relative responses to that of an authentic standard. Quantitation is accomplished by comparing the response of the major (quantitation) ion relative to an in internal standard using a seven point calibration curve. These levels equate to 0.5, 1.0, 2.5, 5.0, 10, 50 and 100 ug/L for water samples.

A Hewlett-Packard 5890 Series II gas chromatograph with a 30m x 0.32mm 1.8u film, RTX-624 micro-capillary column interfaced to a Hewlett-Packard 5972 MSD was used. The data system included a Hewlett-Packard Enviroquant chromatography workstation for data handling.

Quality control consisted of the following items:

- Initial calibration with % relative standard deviation less than 15% of individual response factors obtained from analysis of calibration standards
- Continuing Calibration Verification standards analyzed at a frequency of every ten samples or less
- Surrogate standard additions to samples
- Blank and LCS samples analyzed every twenty samples or less with a minimum of one per day per matrix.
- MS/MSD samples analyzed every twenty samples or less per matrix.
- Information documented in Logbook 150.

Table 1

Sample Results Volatiles– March

TABLE 1

Kuhlman Electric - Crystal Springs, Mississippi - Volatiles Detected in Water

VOLATILES	Reporting Limit ug/L	W2185 CSW WA8 022 - 4-Mar-08 8:20 4-Mar-08	W2186 CSW WA3 022 - 4-Mar-08 8:32 4-Mar-08	W2187 CSW WA1 022 - 4-Mar-08 8:42 4-Mar-08	W2188 CSW WA2 022 - 4-Mar-08 8:57 4-Mar-08	W2189 CSW FB 022 - 4-Mar-08 8:55 4-Mar-08	W2190 CSW WA5 017 - 4-Mar-08 9:27 4-Mar-08	W2191 CSW WA6 017 - 4-Mar-08 9:36 4-Mar-08	W2192 CSW TP 022 - 4-Mar-08 9:52 4-Mar-08	W2193 CSW Duplicate - 4-Mar-08 - 4-Mar-08
Depth										
Date Collected										
Time Collected										
Date Analyzed										
Dichlorodifluoromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene Chloride	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Tetrachloride	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Toluene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethyl Benzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

TABLE 1

Kuhlman Electric - Crystal Springs, Mississippi - Volatiles Detected in Water

VOLATILES	Reporting Limit ug/L	W2185 CSW WA8 022 - 4-Mar-08 8:20 4-Mar-08	W2186 CSW WA3 022 - 4-Mar-08 8:32 4-Mar-08	W2187 CSW WA1 022 - 4-Mar-08 8:42 4-Mar-08	W2188 CSW WA2 022 - 4-Mar-08 8:57 4-Mar-08	W2189 CSW FB 022 - 4-Mar-08 8:55 4-Mar-08	W2190 CSW WA5 017 - 4-Mar-08 9:27 4-Mar-08	W2191 CSW WA6 017 - 4-Mar-08 9:36 4-Mar-08	W2192 CSW TP 022 - 4-Mar-08 9:52 4-Mar-08	W2193 CSW Duplicate - 4-Mar-08 - 4-Mar-08
Xylenes, Total	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Styrene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Isopropylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Bromobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
n-Propylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3,5-Trichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
1,2,3-Trichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Surrogates:										
Dibromofluoromethane	%	98.6	103	99.2	107	98.7	103	107	102	99.6
Toluene-D8	%	92.7	95.0	99.8	100	95.8	96.5	101	94.6	89.8
4-Bromofluorobenzene	%	100	102	99.4	107	105	98.9	102	99.2	101

Table 2

Sample Results 1,4-Dioxane– March

TABLE 2

Kuhlman Electric - Crystal Springs, Mississippi - 1,4-Dioxane Detected in Water

		W2185	W2186	W2187	W2188	W2189	W2190	W2191	W2192	W2193
		CSW	CSW	CSW	CSW	CSW	CSW	CSW	CSW	CSW
		WA8	WA3	WA1	WA2	FB	WA5	WA6	TP	Duplicate
		022	022	022	022	022	017	017	022	
	Depth	-	-	-	-	-	-	-	-	
	Date Collected	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08
	Time Collected	8:20	8:32	8:42	8:57	8:55	9:27	9:36	9:52	-
	Date Analyzed	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	5-Mar-08	5-Mar-08	5-Mar-08	5-Mar-08
	Reporting Limit									
VOLATILES	ug/L									
1,4-Dioxane	1.0	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.2**
Surrogates:										
1,4-Dioxane-D8	%	94.2	101	109	86.5	93.0	96.9	95.1	104	101

Table 3

QC Results Volatiles– March

TABLE 3
QC Report

Lab # associated with qc samples: W2185 through W2193

	Matrix Spike W2186	Matrix Spike Duplicate W2186	Blank
Date Analyzed:	3/4/08	3/4/08	3/4/08

Compound	% Rec		% Rec	RPD		ug/L
Dichlorodifluoromethane	88.8%		83.2%	6.5%		< 1.0
Chloromethane	93.6%		107%	13.5%		< 1.0
Vinyl chloride	107%		108%	0.7%		< 1.0
Bromomethane	102%		113%	10.4%		< 1.0
Chloroethane	115%		109%	5.4%		< 1.0
Trichlorofluoromethane	104%		102%	1.6%		< 1.0
1,1-Dichloroethene	99.4%		110%	9.8%		< 1.0
Methylene chloride	112%		120%	6.6%		< 1.0
trans-1,2-Dichloroethene	103%		106%	2.5%		< 1.0
1,1-Dichloroethane	108%		109%	1.5%		< 1.0
cis-1,2-Dichloroethene	98.0%		101%	3.0%		< 1.0
2,2-Dichloropropane	113%		111%	1.8%		< 1.0
Bromochloromethane	99.6%		96.6%	3.1%		< 1.0
Chloroform	105%		103%	2.1%		< 1.0
1,1,1-Trichloroethane	102%		101%	1.2%		< 1.0
1,1-Dichloropropene	95.8%		95.0%	0.8%		< 1.0
Carbon tetrachloride	100%		99.2%	1.0%		< 1.0
Benzene	100%		102%	1.2%		< 1.0
1,2-Dichloroethane	109%		105%	3.7%		< 1.0
Trichloroethene	98.6%		97.4%	1.2%		< 1.0
1,2-Dichloropropane	98.8%		99.4%	0.6%		< 1.0
Dibromomethane	104%		102%	2.1%		< 1.0
Bromodichloromethane	101%		102%	1.2%		< 1.0
cis-1,3-Dichloropropene	92.6%		90.4%	2.4%		< 2.0
Toluene	98.8%		98.2%	0.6%		< 1.0
trans-1,3-Dichloropropene	92.4%		94.2%	1.9%		< 1.0
1,1,2-Trichloroethane	102%		101%	0.6%		< 1.0
Tetrachloroethene	99.4%		100%	1.0%		< 1.0
1,3-Dichloropropane	98.6%		96.4%	2.3%		< 1.0
Dibromochloromethane	101%		99.0%	2.2%		< 1.0
1,2-Dibromoethane	97.4%		90.4%	7.5%		< 1.0
Chlorobenzene	101%		101%	0.0%		< 1.0
1,1,1,2-Tetrachloroethane	98.0%		95.2%	2.9%		< 1.0
Ethyl benzene	99.2%		97.2%	2.0%		< 1.0
Xylenes, Total	99.5%		97.2%	2.3%		< 2.0
Styrene	96.2%		98.0%	1.9%		< 1.0
Bromoform	97.6%		94.4%	3.3%		< 2.0

TABLE 3
QC Report

Lab # associated with qc samples: W2185 through W2193

	Matrix Spike W2186	Matrix Spike Duplicate W2186	Blank
Date Analyzed:	3/4/08	3/4/08	3/4/08

Compound	% Rec		% Rec	RPD		ug/L
Isopropylbenzene	93.2%		93.8%	0.6%		< 1.0
1,1,2,2-Tetrachloroethane	105%		101%	3.9%		< 2.0
Bromobenzene	98.4%		100%	1.8%		< 1.0
1,2,3-Trichloropropane	102%		103%	0.6%		< 2.0
n-Propylbenzene	99.2%		101%	2.2%		< 1.0
2-Chlorotoluene	102%		105%	2.9%		< 1.0
1,3,5-Trimethylbenzene	102%		102%	0.6%		< 1.0
4-Chlorotoluene	99.8%		101%	1.6%		< 1.0
tert-Butylbenzene	95.8%		94.6%	1.3%		< 1.0
1,2,4-Trimethylbenzene	98.6%		104%	5.7%		< 1.0
sec-Butylbenzene	98.6%		101%	2.6%		< 1.0
1,3-Dichlorobenzene	96.4%		99.8%	3.5%		< 1.0
p-Isopropyltoluene	95.6%		97.6%	2.1%		< 1.0
1,4-Dichlorobenzene	94.4%		102%	7.5%		< 1.0
n-Butylbenzene	97.0%		99.2%	2.2%		< 1.0
1,2-Dichlorobenzene	95.8%		97.8%	2.1%		< 1.0
1,2-Dibromo-3-chloropropane	90.8%		95.6%	5.2%		< 2.0
1,3,5-Trichlorobenzene	89.6%		95.0%	5.9%		< 1.0
1,2,4-Trichlorobenzene	86.0%		92.8%	7.6%		< 1.0
Hexachlorobutadiene	93.4%		97.6%	4.4%		< 1.0
Naphthalene	81.0%		85.2%	5.1%		< 3.0
1,2,3-Trichlorobenzene	87.8%		92.2%	4.9%		< 1.0

Table 4

QC Results 1,4-Dioxane– March

TABLE 4
QC Report

Lab # associated with qc samples: W2185 through W2193

	Matrix Spike	Matrix Spike Duplicate		LCS	Blank
	W2186	W2186			
Date Extracted:	03/04/08	03/04/08		03/04/08	03/04/08
Date Analyzed:	03/04/08	03/04/08		03/04/08	03/04/08

Compound	% Rec		% Rec	RPD		% Rec	ug/L
1,4-Dioxane	109%		103%	5.7%		104%	< 1.0

Appendix A

Chain of Custody Sheets for Samples

Environmental Chemistry Consulting Services, Inc.

2525 Advance Road Madison, WI 53718
Phone 608-221-8700 FAX 608-221-4889

CHAIN OF CUSTODY

City Wells

No. 013500 *

Page 1 of 1

Turn Around (circle one) Normal Rush

Report Due:

Project Number:

Project Name: KUHLMAN ELECTRIC

Project Location: CRYSTAL SPRINGS

Sampled By (Print): Chuck Peel

Mail Report To:

Company: MARTIN + SLAGLE

Address:

Invoice To:

Company:

Address:

P.O. No.: Quote No.:

Sample Description	Collection Date	Collection Time	Matrix	Total Bottles	Preserv*	Analysis Requested	Comments	Laboratory Number
CSW-WA8-022	3/4/08	0820	W	4	A	1,4 Dioxane + 8260B		W2185
CSW-WA3-022		0832		4	A			W2186
CSW-WA1-022		0842		8	A/B			W2187
CSW-WA2-022		0857		7	A/B			W2188
CSW-FB-022		0855		4	A			W2189
CSW-WA5-017		0927		4	A			W2190
CSW-WA6-017		0936		4	A			W2191
CSW-TP-022		0952			A/B			W2192
DUPLICATE	↓	—	↓	8	A/B	↓		W2193

*Preservation Code
A=None B=HCL C=H2SO4
D=HNO3 E=EnCore F=Methanol
G=NaOH O=Other(Indicate)

Relinquished By:	Date/Time:	Received By:	Date/Time:
Charles O. M. Peel	3/4/08 1000		3/4/08 1000
Relinquished By:	Date/Time:	Received By:	Date/Time:

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

Shipped Via:

Receipt Temp:

Temp Blank Y N

WHITE - REPORT COPY YELLOW - LABORATORY COPY PINK - SAMPLER/SUBMITTER

Appendix B

FEDEX shipping label for Columbia Analytical Services, Inc.

FedEx Express. USA Airbill

FedEx Tracking Number 837597992207

Form Code No. 0200

Sender's Copy

From Please print and press hard.

Date 3/6/08 Sender's FedEx Account Number 226281991

Sender's Name Joe Kubak Phone (608) 345-1974

Company GCCS, Inc

Address 2525 ADVANCE RD

Dept./Floor/Suite/Room

City MADISON State WI ZIP 53718

Your Internal Billing Reference
First 24 characters will appear on invoice.

To

Recipient's Name SAMPLE CUSTODIAN Phone (360) 577-7222

Company COLUMBIA ANALYTICAL

Address

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address 1317 SO 13th AVE

Dept./Floor/Suite/Room

City KELSO State WA ZIP 98626

Try online shipping at fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

Questions? Visit our Web site at fedex.com
or call 1.800.Go.FedEx® 800.463.3339.

4a Express Package Service — Packages up to 150 lbs.
Delivery commitment may be later in some areas

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service — Packages over 150 lbs.
Delivery commitment may be later in some areas

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation:

5 Packaging — * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [X] Other

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — NOT available for FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment Bill to:

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party — Enter FedEx Acct. No. or Credit Card No. below.
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. ____ Exp. Date ____

Total Packages	Total Weight	Total Declared Value†
		$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Release Signature Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

446

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Appendix C

Chain of Custody Sheets for samples sent to Columbia Analytical Services, Inc.

Columbia Analytical Services
An Employee - Owned Company

CHAIN OF CUSTODY

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: _____ PAGE _____ OF _____ COC # _____

PROJECT NAME: KUHLMAN ELECTRIC
PROJECT NUMBER:
PROJECT MANAGER: ROBERT MARTIN
COMPANY/ADDRESS: MARTIN & SIMLIE
CITY/STATE/ZIP: BLACK MOUNTAIN NC
E-MAIL ADDRESS:
PHONE #: FAX#:
SAMPLER'S SIGNATURE: Robert Martin

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☒ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☒ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐ Fuel Fingerprint (FIQ) ☐ ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics Tri ☐ Tetra ☐ - 8151M PCP ☐	PAHS 8310 ☐ SIM ☐	Metals: Total or Dissolved (See list below)	Cyanide ☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐	Lachat ☐ Flow ☐				REMARKS
KEP-DP-039-011	3/3/08	2030		S	1	X																			
KEP-DP-039-013	3/3/08	2045		S	1	X																			
KEP-DP-039-016	3/3/08	2101		S	2	X	X														X				
DUPLICATE	3/3/08	—		S	2	X	X														X				
CSW-WA1-022	3/4/08	0842		W	6		X														X				
DUPLICATE	3/4/08	—		W	4		X														X				E2193
KEP-WP-048-003	3/4/08	2115		W	4		X														X				
DUPLICATE 2	3/4/08	—		W	4		X														X				E7041
TRIP BLANK	—	—		W	2																				

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
_X_ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. #
Bill To: BOBS WAGNER

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
_X_ Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Robert M. Martin	Signature:	Signature:	Signature:
Date/Time: 3/6/08 1426	Date/Time:	Date/Time:	Date/Time:
Printed Name: Robert M. Martin	Printed Name:	Printed Name:	Printed Name:
Firm: Martin & Simlie Consulting	Firm:	Firm:	Firm: