

July 30, 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,

f 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

July 30, 2008

To: Robert Martin
Martin and Slagle

From: Joseph Kubale *JK*
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 July 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

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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, quantitation 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 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– July

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

VOLATILES	Depth Date Collected Time Collected Date Analyzed Reporting Limit	W2373		W2374		W2375		W2376		W2377		W2378		W2379		W2380		W2381	
		CSW WA8 026	8-Jul-08 7:15 9-Jul-08	CSW WA3 026	8-Jul-08 7:24 9-Jul-08	CSW WA1 026	8-Jul-08 7:35 9-Jul-08	CSW WA2 026	8-Jul-08 7:48 9-Jul-08	CSW FB 026	8-Jul-08 7:33 9-Jul-08	CSW WA5 021	8-Jul-08 8:25 9-Jul-08	CSW WA6 021	8-Jul-08 8:36 9-Jul-08	CSW TP 026	8-Jul-08 8:53 9-Jul-08	CSW Duplicate	8-Jul-08
Xylenes, Total	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 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	< 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	< 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	< 1.0	< 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	< 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	< 1.0	< 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	< 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	< 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	< 1.0	< 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	< 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	< 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	< 1.0	< 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	< 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	< 1.0	< 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	< 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	< 1.0	< 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	< 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	< 1.0	< 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	< 1.0	< 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	< 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	< 1.0	< 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	< 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	< 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	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Surrogates:																			
Dibromofluoromethane	%	104	106	107	106	104	106	107	106	104	104	103	104	113	107				
Toluene-D8	%	96.1	101	99.8	101	99.2	101	99.8	101	99.2	101	104	104	104	99.9				
4-Bromofluorobenzene	%	93.8	100	99.6	97.4	95.6	97.4	99.6	97.4	95.6	96.9	97.9	106	102					

Table 2

Sample Results 1,4-Dioxane– July

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

VOLATILES	Depth	Date Collected	Time Collected	Date Analyzed	Reporting Limit	W2373		W2374		W2375		W2376		W2377		W2378		W2379		W2380		W2381		
						CSW	WA8	CSW	WA3	CSW	WA1	CSW	WA2	CSW	FB	CSW	WA5	CSW	WA6	CSW	TP	CSW	CSW	CSW
		8-Jul-08	7:15	9-Jul-08	101	<	1.0	<	1.0	<	1.1	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	8-Jul-08
		8-Jul-08	7:24	9-Jul-08	90.2	<	1.0	<	1.0	<	7:35	7:48	8-Jul-08	8-Jul-08	8-Jul-08	8-Jul-08	8-Jul-08	8-Jul-08	8-Jul-08	8-Jul-08	8-Jul-08	8-Jul-08	8-Jul-08	8-Jul-08
		9-Jul-08	7:15	9-Jul-08	93.3	<	1.0	<	1.0	<	7:33	8:25	8-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08
		9-Jul-08	7:24	9-Jul-08	90.5	<	1.0	<	1.0	<	8:36	8:53	8-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08
		9-Jul-08	7:15	9-Jul-08	96.8	<	1.0	<	1.0	<	8:36	8:53	8-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08
		9-Jul-08	7:24	9-Jul-08	93.6	<	1.0	<	1.0	<	8:36	8:53	8-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08
		9-Jul-08	7:15	9-Jul-08	94.3	<	1.0	<	1.0	<	8:36	8:53	8-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08
		9-Jul-08	7:24	9-Jul-08	94.7	<	1.0	<	1.0	<	8:36	8:53	8-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08
		9-Jul-08	7:15	9-Jul-08	81.7	<	1.0	<	1.0	<	8:36	8:53	8-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08	9-Jul-08

Table 3

QC Results Volatiles– July

TABLE 3
QC Report

Lab # associated with qc samples: W2373 through W2381

	Matrix	Matrix	
	Spike	Spike	Blank
	W2373	Duplicate	
		W2373	
Date Analyzed:	07/09/08	07/09/08	07/09/08

Compound	% Rec		% Rec	RPD		ug/L
Dichlorodifluoromethane	130%		116%	10.9%		< 1.0
Chloromethane	162%		143%	12.3%		< 1.0
Vinyl chloride	125%		117%	6.0%		< 1.0
Bromomethane	147%		139%	5.7%		< 1.0
Chloroethane	132%		121%	8.3%		< 1.0
Trichlorofluoromethane	115%		116%	1.5%		< 1.0
1,1-Dichloroethene	108%		108%	0.2%		< 1.0
Methylene chloride	123%		121%	1.6%		< 1.0
trans-1,2-Dichloroethene	129%		124%	4.4%		< 1.0
1,1-Dichloroethane	107%		107%	0.1%		< 1.0
cis-1,2-Dichloroethene	104%		107%	3.1%		< 1.0
2,2-Dichloropropane	93.7%		97.9%	4.4%		< 1.0
Bromochloromethane	102%		102%	0.4%		< 1.0
Chloroform	103%		104%	0.5%		< 1.0
1,1,1-Trichloroethane	105%		104%	1.1%		< 1.0
1,1-Dichloropropene	96.7%		99.6%	3.0%		< 1.0
Carbon tetrachloride	99.0%		102%	3.4%		< 1.0
Benzene	102%		105%	2.9%		< 1.0
1,2-Dichloroethane	101%		99.8%	1.0%		< 1.0
Trichloroethene	99.0%		101%	1.8%		< 1.0
1,2-Dichloropropane	99.3%		102%	2.9%		< 1.0
Dibromomethane	99.6%		103%	3.3%		< 1.0
Bromodichloromethane	100%		101%	1.0%		< 1.0
cis-1,3-Dichloropropene	93.5%		95.9%	2.5%		< 2.0
Toluene	109%		108%	1.6%		< 1.0
trans-1,3-Dichloropropene	93.3%		98.1%	5.0%		< 1.0
1,1,2-Trichloroethane	101%		102%	0.3%		< 1.0
Tetrachloroethene	101%		102%	1.1%		< 1.0
1,3-Dichloropropane	99.0%		98.8%	0.2%		< 1.0
Dibromochloromethane	101%		99.6%	1.7%		< 1.0
1,2-Dibromoethane	99.6%		97.8%	1.8%		< 1.0
Chlorobenzene	103%		102%	1.6%		< 1.0
1,1,1,2-Tetrachloroethane	93.8%		92.5%	1.4%		< 1.0
Ethyl benzene	101%		98.9%	2.1%		< 1.0
Xylenes, Total	102%		99.4%	2.3%		< 2.0
Styrene	103%		99.2%	3.9%		< 1.0
Bromoform	93.8%		88.9%	5.4%		< 2.0

TABLE 3
QC Report

Lab # associated with qc samples: W2373 through W2381

	Matrix	Matrix	
	Spike	Spike	Blank
	W2373	Duplicate	
		W2373	
Date Analyzed:	07/09/08	07/09/08	07/09/08

Compound	% Rec		% Rec	RPD		ug/L
Isopropylbenzene	101%		96.2%	4.8%		< 1.0
1,1,2,2-Tetrachloroethane	104%		95.1%	8.7%		< 2.0
Bromobenzene	106%		103%	2.9%		< 1.0
1,2,3-Trichloropropane	106%		99.3%	6.4%		< 2.0
n-Propylbenzene	108%		104%	4.2%		< 1.0
2-Chlorotoluene	110%		105%	5.3%		< 1.0
1,3,5-Trimethylbenzene	110%		102%	7.3%		< 1.0
4-Chlorotoluene	111%		105%	5.5%		< 1.0
tert-Butylbenzene	106%		101%	5.7%		< 1.0
1,2,4-Trimethylbenzene	112%		104%	7.4%		< 1.0
sec-Butylbenzene	110%		101%	7.8%		< 1.0
1,3-Dichlorobenzene	102%		103%	0.9%		< 1.0
p-Isopropyltoluene	101%		99.6%	1.3%		< 1.0
1,4-Dichlorobenzene	99.4%		102%	3.0%		< 1.0
n-Butylbenzene	103%		103%	0.2%		< 1.0
1,2-Dichlorobenzene	99.4%		101%	1.7%		< 1.0
1,2-Dibromo-3-chloropropane	96.0%		90.0%	6.5%		< 2.0
1,3,5-Trichlorobenzene	99.1%		98.1%	1.0%		< 1.0
1,2,4-Trichlorobenzene	96.5%		97.9%	1.4%		< 1.0
Hexachlorobutadiene	97.7%		96.2%	1.5%		< 1.0
Naphthalene	92.6%		92.3%	0.3%		< 3.0
1,2,3-Trichlorobenzene	96.5%		97.4%	0.9%		< 1.0

Table 4

QC Results 1,4-Dioxane– July

TABLE 4
QC Report

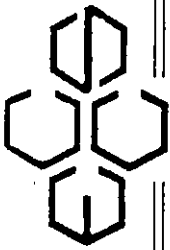
Lab # associated with qc samples: W2373 through W2381

	Matrix Spike	Matrix Spike Duplicate		LCS	Blank
	W2373	W2373			
Date Extracted:	07/08/08	07/08/08		07/08/08	07/08/08
Date Analyzed:	07/09/08	07/09/08		07/09/08	07/09/08

Compound	% Rec		% Rec	RPD		% Rec	ug/L
1,4-Dioxane	103%		102%	1.0%		100%	< 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 *Waukesha*

No. **013740**

Page 1 of 1

Turn Around (circle one) Normal Rush
Report Due:

Project Number:		Mail Report To:		Invoice To:		Laboratory Number	
Project Name: <i>KUHLMAN ELECTRIC</i>		Company: <i>MATTIN + SLAGLE</i>		Company:		Number	
Project Location: <i>CURTAIN SPRINGS</i>		Address:		Address:		Comments	
Sampled By (Print): <i>Chuck Reed</i>		P.O. No.:		Quote No.:		Laboratory Number	
Sample Description	Collection		Total Bottles	Preserv*	Analysis Requested	Comments	Laboratory Number
	Date	Time					
<i>CSW-WA8-026</i>	<i>7/8/08</i>	<i>0715</i>	<i>4</i>	<i>A</i>	<i>P2608 + 1, 4 Dioxane</i>		<i>W2373</i>
<i>CSW-WA3-026</i>		<i>0724</i>	<i>4</i>	<i>A</i>			<i>W2374</i>
<i>CSW-WA1-026</i>		<i>0735</i>	<i>11</i>	<i>A/B</i>			<i>W2375</i>
<i>CSW-WA2-026</i>		<i>0748</i>	<i>4</i>	<i>A</i>			<i>W2376</i>
<i>CSW-FB-026</i>		<i>0733</i>	<i>4</i>	<i>A</i>			<i>W2377</i>
<i>CSW-WA5-021</i>		<i>0825</i>	<i>4</i>	<i>A</i>			<i>W2378</i>
<i>CSW-WA6-021</i>		<i>0836</i>	<i>4</i>	<i>A</i>			<i>W2379</i>
<i>CSW-TP-026</i>		<i>0853</i>	<i>7</i>	<i>A/B</i>			<i>W2380</i>
<i>Duplicate</i>			<i>7</i>	<i>A/B</i>			<i>W2381</i>
*Preservation Code		Relinquished By:		Date/Time:		Date/Time:	
A=None B=HCL C=H2SO4		<i>Charles D. M. Pe...</i>		<i>7/8/08 0905</i>		<i>7/8/08 0905</i>	
D=HNO3 E=EnCore F=Methanol		Relinquished By:		Date/Time:		Date/Time:	
G=NaOH O=Other(Indicate)							
Custody Seal: Present/Absent		Intact/Not Intact		Seal #s		Received By: <i>Jerry Gumbal</i>	
Shipped Via:						Received By:	
						Temp Blank Y N <i>on ice</i>	

Appendix B

FEDEX shipping label for Columbia Analytical Services, Inc.

From Please print and present.
Date **7/7/09** Sender's FedEx Account Number **226281991**
To **Joe Kubala** Phone **(609) 345-1974**
Company **ECS, INC**
Address **101 K 2525 ADVANCE RD**
City **MADISON** State **WI** ZIP **53718**

Your Internal Billing Reference
First 24 characters will appear on Invoice.
To Recipient's Name **SAMPLE CUSTOMER** Phone **(360) 577 7222**
Company **COLUMBIA ANALYTICAL**

To
Address To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address **1317 S. 13th AVE**
City **KELSO** State **WA** ZIP **98626**



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.
 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.
 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
 Other

6 Special Handling
 SATURDAY Delivery Available DAILY for FedEx Priority Overnight and FedEx 2Day to select ZIP codes.
 HOLD Weekday at FedEx Location 9AM-5PM M-F only. FedEx First Overnight.
 HOLD Saturday at FedEx Location Available DAILY for FedEx Priority Overnight and FedEx 2Day to select locations.
 Does this shipment contain dangerous goods?
 No Yes As per attached Shipper's Declaration Yes Shipper's Declaration not required
 Dry Ice Dry Ice, 9, UN 1845 x kg
 Cargo Aircraft Only
 Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging.

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below.
 Sender Acct. No. in Section 1 will be billed.
 Recipient Third Party Credit Card Cash/Check

FedEx Acct. No. **226281991** Exp. Date
 Credit Card No.

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.

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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

PAGE 1 OF 1 SR# _____ COC # _____

PROJECT NAME: KUHLEMAN ELECTRIC

PROJECT NUMBER: _____

PROJECT MANAGER: ROBERT WHITTEN

COMPANY ADDRESS: WINTON + STANICE

CITY/STATE/ZIP: ELITE WASHINGTON WA

E-MAIL ADDRESS: _____

PHONE #: _____ FAX#: _____

SMPLER'S SIGNATURE: [Signature]

DATE: 7/8/08 TIME: 0735

SAMPLE ID: _____ LAB ID: _____ MATRIX: _____

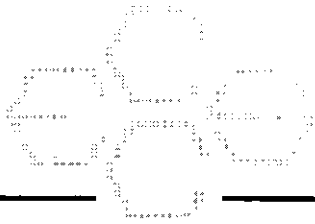
REPORT REQUIREMENTS	INVOICE INFORMATION	P.O. #	BILL TO:	TURNAROUND REQUIREMENTS	NUMBER OF CONTAINERS		Semi-volatile Organics by GC/MS		Volatile Organics		Hydrocarbons (*see below)		Oil & Grease/TRPH		PCB's		Pesticides/Herbicides		Chlorophenolics - 8151M		PAHS		Metals, Total or Dissolved (See list below)		pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)		NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3		TOX 9020		AOX 1650		REMARKS					
					625	8270	624	8260	8021	BTEX	Gas	Diesel	Fuel Fingerprint (FIQ)	NW-HCID Screen	1664 HEM	1664 SGT	8081A	8141A	8151A	Tri	Tetra	PCP	8310	SIM	Cyanide	Hex-Chrom	TOX 9020	AOX 1650	506									
I. Routine Report: Method Blank, Surrogate, as required	P.O. # _____	_____	_____	24 hr. _____ 48 hr. _____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	
II. Report Dup., MS, MSD as required	_____	_____	_____	5 Day _____ Standard (10-15 working days) _____ Provide FAX Results _____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	
III. Data Validation Report (includes all raw data)	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
IV. CLP Deliverable Report	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
V. EDD	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

RELINQUISHED BY: _____ RECEIVED BY: _____

Signature: _____ Date/Time: _____ Signature: _____ Date/Time: _____

Printed Name: _____ Firm: _____ Printed Name: _____ Firm: _____

BR 10 14 2008



September 24, 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,

for 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