

November 28, 2005

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.

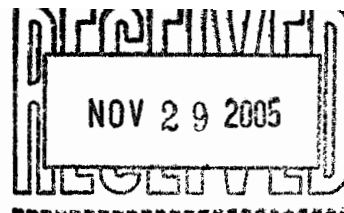
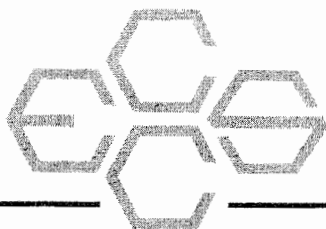
Sincerely,

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

November 28, 2005

To: Robert Martin  
Martin and Slagle

From: Joseph Kubale *JK*  
ECCS

Re: Field Analytical Methods  
Volatile Organic Compounds (VOC)  
Kuhlman Electric Corporation (KEC)  
Crystal Springs, MS

### Introduction

This Technical Memorandum provides documentation of the field analytical test methods used to analyze water samples from CSW collected in November 2005 during the investigation at 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.

### Narrative

#### Waters

Water samples were analyzed for VOCs directly by purge and trap GC/MSD.

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
1,1-Dichloroethene	1.0
Methylene chloride	1.0

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A summary of test results is provided in Table 1. A summary of method blanks and matrix spike/matrix spike duplicate data is provided in Table 2.

In addition copies of the chain of custody sheets can be found in appendix A.

A) Chain of custody sheets for samples

### VOC Method Summary

#### Water Samples

Water samples were provided by the client to the field lab in 40ml VOC vials. A 10ml aliquot of the sample was withdrawn from the vial with a 10ml gas-tight syringe. 10 ul of a 25ug/mL surrogate and internal standard solution was added to the sample in the 10 mL syringe. The resulting concentration of the surrogate and internal standard was 25ug/L. The internal standards for the MSD were pentafluorobenzene, 1,4-Difluorobenzene, chlorobenzene-D5 and 1,4-Dichlorobenzene-D4. The surrogate standards were dibromofluoromethane, toluene-D8 and bromofluorobenzene. 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 ug/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
- Surrogate standard additions to samples and standards
- Blank samples analyzed at a minimum of one per day
- Matrix spike and Matrix Spike Duplicate samples analyzed for every twenty samples
- Information documented in Field Logbook 85.

**Table 1**

**Sample Results – November**



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

VOLATILES	ug/L	Reporting Limit	Date Analyzed	Date Collected	Depth	W1487		W1488		W1489		W1490		W1491		W1492		W1493		W1494	
						CSW	WA3	CSW	BD	CSW	WA1	CSW	WA2	CSW	WA4	CSW	FB	CSW	TP	CSW	WA7
Xylenes, Total	2.0		14-Nov-05	14-Nov-05		< 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		15:00	14-Nov-05		< 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		15-Nov-05	15-Nov-05		< 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
1,1,2,2-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
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
1,2,3-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
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
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
1,3,5-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
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
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
1,2,4-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
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
1,3-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
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
1,4-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
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
1,2-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
1,2-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
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
1,2,4-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
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
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
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
Surrogates:																					
Dibromofluorobenzene	%					101	107	101	100	101	98.7	102	103	103	102	103	103	103	102	103	95.7
Toluene-D8	%					101	102	99.4	100	101	101	103	100	103	103	103	103	103	103	100	99.7
4-Bromofluorobenzene	%					100	102	98.5	99.3	103	103	101	98.4	101	103	103	103	101	98.4	98.3	98.3

J = Estimated, value below reporting limit.

B = Analyte detected in associated method blank.

(1) = Also analyzed from unpreserved vial.

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

VOLATILES	Depth Date Collected Time Collected Date Analyzed Reporting Limit ug/L	W1495		W1496		W1497		Trip
		CSW TP 002	16-Nov-05 13:00 17-Nov-05	CSW BD 004	16-Nov-05 - 17-Nov-05	CSW WAT 003	16-Nov-05 12:30 17-Nov-05	
Dichlorodifluoromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
Chloromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
Vinyl Chloride	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
Bromomethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
Chloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
Trichlorofluoromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
1,1-Dichloroethene	1.0	< 1.0	8.8	< 1.0	8.7	< 1.0	< 1.0	16-Nov-05
Methylene Chloride	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
trans-1,2-Dichloroethene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
1,1-Dichloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
cis-1,2-Dichloroethene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
2,2-Dichloropropane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
Bromochloromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
Chloroform	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
1,1,1-Trichloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
1,1-Dichloropropene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
Carbon Tetrachloride	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
Benzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
1,2-Dichloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
Trichloroethene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
1,2-Dichloropropane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
Dibromomethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
Bromodichloromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
cis-1,3-Dichloropropene	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	16-Nov-05
Toluene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
trans-1,3-Dichloropropene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
1,1,2-Trichloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
Tetrachloroethene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
1,3-Dichloropropane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
Dibromochloromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
1,2-Dibromoethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
Chlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
1,1,1,2-Tetrachloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05
Ethyl Benzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16-Nov-05

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

VOLATILES	Depth	Date Collected	Time Collected	Date Analyzed	Reporting Limit	W1495		W1496		W1497	
						CSW	CSW	CSW	CSW	CSW	CSW
						TP	BD	BD	WA7	TP	Blank
						002	004	003	003	Blank	Blank
						16-Nov-05	16-Nov-05	16-Nov-05	16-Nov-05	16-Nov-05	16-Nov-05
						13:00		12:30			
						17-Nov-05	17-Nov-05	17-Nov-05	17-Nov-05	17-Nov-05	17-Nov-05
						< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Xylenes, Total	2.0					< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	1.0					< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Bromoform	2.0					< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	1.0					< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,2,2-Tetrachloroethane	2.0					< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	1.0					< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2,3-Trichloropropane	2.0					< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	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
1,3,5-Trimethylbenzene	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
tert-Butylbenzene	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
sec-Butylbenzene	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
p-Isopropyltoluene	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
n-Butylbenzene	1.0					< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	1.0					< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dibromo-3-Chloropropane	2.0					< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trichlorobenzene	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
Hexachlorobutadiene	1.0					< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Naphthalene	3.0					< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	1.0										
Surrogates:											
Dibromofluorobenzene	%					98.3	95.4	93.0	103		
Toluene-D8	%					101	101	102	101		
4-Bromofluorobenzene	%					104	94.0	91.3	97.9		

J = Estimated, value below reporting limit.  
 B = Analyte detected in associated method blank.  
 (1) = Also analyzed from unpreserved vial.



**Table 2**

**QC Results – November**

TABLE 2  
QC Report

Lab # associated with qc samples: W1487 through W1494

Matrix Spike Duplicate Blank  
W1488 W1488

Date Analyzed: 11/15/05 11/15/05 11/15/05

Compound	% Rec	% Rec	% RPD	ug/L
Dichlorodifluoromethane	98.7%	101%	-2%	< 1.0
Chloromethane	95.3%	100%	-5%	< 1.0
Vinyl Chloride	107%	106%	0%	< 1.0
Bromomethane	96.8%	105%	-8%	< 1.0
Chloroethane	101%	112%	-10%	< 1.0
Trichlorofluoromethane	105%	110%	-5%	< 1.0
1,1-Dichloroethene	106%	108%	-1%	< 1.0
Methylene Chloride	95.6%	98.6%	-3%	< 1.0
trans-1,2-Dichloroethene	95.5%	98.0%	-3%	< 1.0
cis-1,2-Dichloroethene	100%	102%	-2%	< 1.0
2,2-Dichloropropane	96.7%	96.5%	0%	< 1.0
2,2-Dichloropropane	104%	105%	-2%	< 1.0
Bromochloromethane	104%	105%	1%	< 1.0
Chloroform	96.9%	96.0%	1%	< 1.0
1,1,1-Trichloroethane	103%	101%	2%	< 1.0
1,1,1-Trichloroethane	104%	105%	-1%	< 1.0
1,1-Dichloropropene	102%	104%	-2%	< 1.0
Carbon Tetrachloride	103%	106%	-2%	< 1.0
Benzene	96.7%	99.0%	-2%	< 1.0
1,2-Dichloroethane	107%	105%	2%	< 1.0
Trichloroethene	96.4%	101%	-5%	< 1.0
1,2-Dichloropropane	99.6%	100%	-1%	< 1.0
Dibromomethane	99.8%	101%	-1%	< 1.0
Bromodichloromethane	99.1%	102%	-3%	< 1.0
cis-1,3-Dichloropropene	98.2%	99.6%	-1%	< 2.0
Toluene	94.7%	99.7%	-5%	< 1.0
trans-1,3-Dichloropropene	101%	96.0%	5%	< 1.0
1,1,2-Trichloroethane	98.6%	93.1%	6%	< 1.0
Tetrachloroethene	97.7%	100%	-3%	< 1.0
1,3-Dichloropropane	104%	99.5%	4%	< 1.0
Dibromochloromethane	98.7%	96.6%	2%	< 1.0
1,2-Dibromoethane	95.6%	91.6%	4%	< 1.0
Chlorobenzene	98.2%	98.6%	0%	< 1.0

TABLE 2  
QC Report

Lab # associated with qc samples: W1487 through W1494

Matrix Spike Duplicate Blank  
W1488 W1488

Date Analyzed: 11/15/05 11/15/05 11/15/05

Compound	% Rec	% Rec	% RPD	ug/L
1,1,1,2-Tetrachloroethane	100%	98.8%	1%	< 1.0
Ethyl Benzene	98.7%	104%	-5%	< 1.0
Xylenes, Total	91.3%	101%	-10%	< 2.0
Styrene	95.3%	100%	-5%	< 1.0
Bromoform	99.2%	93.9%	5%	< 2.0
Isopropylbenzene	99.4%	105%	-6%	< 1.0
1,1,2,2-Tetrachloroethane	98.7%	96.2%	3%	< 2.0
Bromobenzene	95.9%	101%	-5%	< 1.0
1,2,3-Trichloropropane	105%	102%	2%	< 2.0
-Propylbenzene	98.4%	103%	-4%	< 1.0
2-Chlorotoluene	99.3%	104%	-4%	< 1.0
1,3,5-Trimethylbenzene	98.0%	103%	-5%	< 1.0
4-Chlorotoluene	97.7%	105%	-7%	< 1.0
tert-Butylbenzene	97.4%	103%	-6%	< 1.0
1,2,4-Trimethylbenzene	96.8%	103%	-6%	< 1.0
sec-Butylbenzene	98.0%	103%	-5%	< 1.0
1,3-Dichlorobenzene	95.1%	100%	-5%	< 1.0
p-Isopropyltoluene	99.0%	105%	-6%	< 1.0
1,4-Dichlorobenzene	97.1%	99.6%	-3%	< 1.0
n-Butylbenzene	99.2%	105%	-6%	< 1.0
1,2-Dichlorobenzene	98.2%	101%	-3%	< 1.0
1,2-Dibromo-3-Chloropropane	88.5%	96.3%	-8%	< 2.0
1,3,5-Trichlorobenzene	96.5%	100%	-4%	< 1.0
1,2,4-Trichlorobenzene	96.8%	98.5%	-2%	< 1.0
Hexachlorobutadiene	95.1%	102%	-7%	< 1.0
Naphthalene	95.9%	94.3%	2%	< 3.0
1,2,3-Trichlorobenzene	98.5%	98.7%	0%	< 1.0

TABLE 2  
QC Report

Lab # associated with qc samples: W1495 through W1497

Matrix  
Spike  
Duplicate  
W1497 W1497

Date Analyzed: 11/17/05 11/17/05

Compound	% Rec	% Rec	% RPD
Dichlorodifluoromethane	98.0%	99.2%	-1%
Chloromethane	90.5%	95.2%	-5%
Vinyl Chloride	102%	106%	-4%
Bromomethane	105%	108%	-3%
Chloroethane	101%	105%	-4%
Trichlorofluoromethane	107%	106%	1%
1,1-Dichloroethene	101%	103%	-2%
Methylene Chloride	94.4%	101%	-7%
trans-1,2-Dichloroethene	95.7%	98.5%	-3%
cis-1,2-Dichloroethene	99.5%	101%	-1%
cis-1,2-Dichloroethene	96.9%	101%	-4%
2,2-Dichloropropane	106%	106%	0%
Bromochloromethane	96.6%	103%	-6%
Chloroform	102%	101%	1%
1,1,1-Trichloroethane	105%	104%	1%
1,1-Dichloropropene	105%	102%	3%
Carbon Tetrachloride	110%	104%	6%
Benzene	100%	97.3%	3%
1,2-Dichloroethane	107%	107%	0%
Trichloroethene	101%	101%	0%
1,2-Dichloropropane	101%	99.5%	1%
Dibromomethane	101%	104%	-3%
Bromodichloromethane	105%	102%	3%
cis-1,3-Dichloropropene	98.2%	99.9%	-2%
Toluene	101%	100%	1%
trans-1,3-Dichloropropene	102%	100%	2%
1,1,2-Trichloroethane	97.2%	102%	-5%
Tetrachloroethene	105%	103%	2%
1,3-Dichloropropane	98.2%	99.1%	-1%
Dibromochloromethane	95.9%	95.2%	1%
1,2-Dibromoethane	94.5%	97.4%	-3%
Chlorobenzene	99.0%	101%	-2%

TABLE 2  
QC Report

Lab # associated with qc samples: W1495 through W1497

Matrix  
Spike  
W1497

Matrix  
Spike  
Duplicate  
W1497

Date Analyzed: 11/17/05 11/17/05

Compound	% Rec		% Rec		% RPD	
1,1,1,2-Tetrachloroethane	99.7%		98.4%		1%	
Ethyl Benzene	100%		100%		0%	
Xylenes, Total	94.8%		98.6%		-4%	
Styrene	96.7%		98.7%		-2%	
Bromoform	89.5%		98.4%		-9%	
Isopropylbenzene	102%		102%		0%	
1,1,2,2-Tetrachloroethane	91.9%		94.0%		-2%	
Bromobenzene	98.2%		101%		-3%	
1,2,3-Trichloropropane	97.7%		103%		-5%	
i-Propylbenzene	100%		99.0%		1%	
2-Chlorotoluene	100%		101%		-1%	
1,3,5-Trimethylbenzene	100%		99.6%		0%	
4-Chlorotoluene	99.8%		97.2%		3%	
tert-Butylbenzene	98.2%		98.9%		-1%	
1,2,4-Trimethylbenzene	99.3%		100%		-1%	
sec-Butylbenzene	101%		98.6%		2%	
1,3-Dichlorobenzene	97.1%		103%		-6%	
p-Isopropyltoluene	102%		102%		0%	
1,4-Dichlorobenzene	99.9%		100%		0%	
n-Butylbenzene	102%		103%		-1%	
1,2-Dichlorobenzene	96.2%		101%		-5%	
1,2-Dibromo-3-Chloropropane	85.5%		101%		-17%	
1,3,5-Trichlorobenzene	99.2%		101%		-2%	
1,2,4-Trichlorobenzene	98.6%		100%		-1%	
Hexachlorobutadiene	99.4%		99.6%		0%	
Naphthalene	90.8%		101%		-11%	
1,2,3-Trichlorobenzene	95.2%		101%		-6%	

## 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**

No. **014438** \*

Page **1** of **1**

Turn Around (circle one) **Normal** Rush  
Report Due:

Project Number:		Mail Report To:		Company: <b>MARTIND SAGOLE</b>		Invoice To:		Laboratory Number	
Project Name: <b>KOHLMAN RECREIC</b>		Company:		Address:		P.O. No.:		Quote No.:	
Project Location: <b>CRYSTAL SPRINGS MS</b>		Address:		Sampled By (Print): <b>CHUCK PELL</b>		Sample Description		Comments	
Sample Description	Collection		Total Bottles	Matrix	Preserv*	Analysis Requested	Comments	Laboratory Number	Date/Time
	Date	Time							
TRIP BLANK	11/14/05	-	1	HW	NA	8260B	ONE WAY ALLOWED ON SITE PRIOR TO SAMPLING WREST WITH STES	W1487	11/15/05
CSW-WA3-002	1500	-	3					W1488	0950
CSW-BD-002	-	-	3					W1489	
CSW-WA1-002	1347	-	3					W1490	
CSW-WA2-002	1405	-	3					W1491	
CSW-WA4-002	1425	-	3					W1492	
CSW-FB-002	1335	-	3					W1493	
CSW-TP-001	1520	-	3					W1494	
CSW-WA7-002	1445	-	3						
*Preservation Code		Relinquished By:		Date/Time:		Received By:		Date/Time:	
A=None B=HCL C=H2SO4		<i>[Signature]</i>		11/15/05		<i>[Signature]</i>		11/15/05	
D=HNO3 E=EnCore F=Methanol		Relinquished By:		Date/Time:		Received By:		Date/Time:	
G=NaOH O=Other(Indicate)									
Custody Seal: Present/Absent		Intact/Not Intact		Seal #s		Receipt Temp:		Temp Blank Y N	
Shipped Via:									







**Environmental Chemistry  
Consulting Services, Inc.**

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

**CHAIN OF CUSTODY**

No. 014439

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DEC 13 2005

Turn Around (circle one) Normal Rush

Report Due:

Project Number: \_\_\_\_\_  
 Project Name: **KUHLHAP ELECTRIC**  
 Project Location: **CAPITAL SPRINGS, MS**  
 Sampled By (Print): **CHUCK PERL**

Mail Report To:

Company: **MARTIN & SCAGLE**  
 Address: \_\_\_\_\_

P.O. No.: \_\_\_\_\_ Quote No.: \_\_\_\_\_

Sample Description	Collection		Matrix	Total Bottles	Preserv'	Analysis Requested	Comments	Laboratory Number
	Date	Time						
TRIP BLANK	11/05	NA	H2O	2	NA	8260B	PREPARED ON SITE PRIOR TO SAMPLES US INC. DIS/LEAD/H2O	W14965
CSW TP 002	11/10/05	1300	H2O	3	NA	"		W1496
CSW RD 004	11/10/05	-	H2O	3	NA	"		W1497
CSW WA7 003	11/10/05	1230	H2O	3	NA	"		

PLEASE ANALYZER WAY MORE THAN ONE BOTTLE, DIFFERENT POSITION ON PAPER AND CAP/DIFFERENT CUV/DIFFERENT SYSTEMS IF POSSIBLE

\*Preservation Code: \_\_\_\_\_  
 A=None B=HCL C=H2SO4  
 D=HNO3 E=EnCore F=Methanol  
 G=NaOH O=Other(Indicate)  
 Relinquished By: *[Signature]* Date/Time: 11/16/05 1730  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: *[Signature]* Date/Time: 11/17/05 1100  
 Received By: *[Signature]* Date/Time: 12/15/05

Custody Seal: Present/Absent Intact/Not Intact Seal #s \_\_\_\_\_  
 Shipped Via: \_\_\_\_\_  
 Receipt Temp: \_\_\_\_\_  
 Temp Blank Y N