July 4, 2007

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,

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 4, 2007

To: Robert Martin
Martin and Slagle

From: Joseph Kubale
ECCS

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

Introduction

This Technical Memorandum provides documentation of the field analytical test methods used to analyze water samples collected in February 2007 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 Paradigm Labs
C) Chain of custody sheets for samples sent to Paradigm Labs

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 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 Field Logbook 150.

1,4-Dioxane Method Summary

Water Samples

Water samples were provided by the client to the field lab in 40mL VOA vials. 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 acetone 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 Field Logbook 150.

Table 1

Sample Results Volatiles– February

TABLE 1

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

VOLATILES	Reporting Limit ug/L	W1808 CSW WA8 008 - 13-Feb-07 8:45 13-Feb-07	W1809 CSW WA3 008 - 13-Feb-07 8:55 13-Feb-07	W1810 CSW FB 008 - 13-Feb-07 9:07 13-Feb-07	W1811 CSW WA1 008 - 13-Feb-07 9:12 13-Feb-07	W1812 CSW WA2 008 - 13-Feb-07 9:20 13-Feb-07	W1813 CSW WA5 004 - 13-Feb-07 9:40 13-Feb-07	W1814 CSW WA6 004 - 13-Feb-07 9:57 13-Feb-07	W1815 CSW TP 008 - 13-Feb-07 10:12 13-Feb-07	W1816 Duplicate - - 13-Feb-07 - 13-Feb-07
Depth		-	-	-	-	-	-	-	-	-
Date Collected		13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07
Time Collected		8:45	8:55	9:07	9:12	9:20	9:40	9:57	10:12	-
Date Analyzed		13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07
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	**1.1**	< 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	**1.7**	< 1.0
Bromodichloromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0
cis-1,3-Dichloropropene	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
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	**1.6**	< 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, ...ssippi - Volatiles Detected in Water

		W1808	W1809	W1810	W1811	W1812	W1813	W1814	W1815	W1816
		CSW	CSW	CSW	CSW	CSW	CSW	CSW	CSW	Duplicate
		WA8	WA3	FB	WA1	WA2	WA5	WA6	TP	
		008	008	008	008	008	004	004	008	
	Depth	-	-	-	-	-	-	-	-	-
	Date Collected	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07
	Time Collected	8:45	8:55	9:07	9:12	9:20	9:40	9:57	10:12	-
	Date Analyzed	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07
	Reporting Limit									
VOLATILES	ug/L									
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	%	101	106	106	107	112	111	114	115	112
Toluene-D8	%	98.9	99.2	98.9	98.3	101	101	101	101	101
4-Bromofluorobenzene	%	100	99.4	96.5	99.4	101	102	102	99.1	102

Table 2

Sample Results 1,4-Dioxane– February

TABLE 2

Kuhlman Electric - Crystal Springs, M[illegible]sippi - 1,4-Dioxane Detected in Water

		W1808	W1809	W1810	W1811	W1812	W1813	W1814	W1815	W1816
		CSW	CSW	CSW	CSW	CSW	CSW	CSW	CSW	Duplicate
		WA8	WA3	FB	WA1	WA2	WA5	WA6	TP	
		008	008	008	008	008	004	004	008	
	Depth	-	-	-	-	-	-	-	-	-
	Date Collected	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07	13-Feb-07
	Time Collected	8:45	8:55	9:07	9:12	9:20	9:40	9:57	10:12	-
	Date Analyzed	14-Feb-07	14-Feb-07	14-Feb-07	14-Feb-07	14-Feb-07	14-Feb-07	14-Feb-07	14-Feb-07	14-Feb-07
VOLATILES	Reporting Limit ug/L									
1,4-Dioxane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Surrogates:										
1,4-Dioxane-D8	%	103	92.2	91.1	81.1	92.1	91.7	90.5	92.1	75.6

Table 3

QC Results Volatiles– February

TABLE 3
QC Report

Lab # associated with qc samples: W1808 through W1816

	Matrix Spike W1814	Matrix Spike Duplicate W1814			Blank	Blank
Date Analyzed:	2/14/07	2/14/07			2/13/07	2/14/07

Compound	% Rec		% Rec	RPD		ug/L	ug/L
Dichlorodifluoromethane	96.0%		96.4%	0.4%		< 1.0	< 1.0
Chloromethane	104%		110%	6.0%		< 1.0	< 1.0
Vinyl chloride	100%		99.8%	0.2%		< 1.0	< 1.0
Bromomethane	102%		102%	0.2%		< 1.0	< 1.0
Chloroethane	99.4%		99.0%	0.4%		< 1.0	< 1.0
Trichlorofluoromethane	109%		113%	3.6%		< 1.0	< 1.0
1,1-Dichloroethene	105%		109%	4.1%		< 1.0	< 1.0
Methylene chloride	93.0%		96.0%	3.2%		< 1.0	< 1.0
trans-1,2-Dichloroethene	99.4%		103%	3.6%		< 1.0	< 1.0
1,1-Dichloroethane	110%		111%	0.7%		< 1.0	< 1.0
cis-1,2-Dichloroethene	106%		108%	1.7%		< 1.0	< 1.0
2,2-Dichloropropane	111%		109%	1.6%		< 1.0	< 1.0
Bromochloromethane	127%		127%	0.2%		< 1.0	< 1.0
Chloroform	135%		136%	1.3%		< 1.0	< 1.0
1,1,1-Trichloroethane	107%		106%	0.6%		< 1.0	< 1.0
1,1-Dichloropropene	94.8%		99.0%	4.3%		< 1.0	< 1.0
Carbon tetrachloride	104%		107%	2.8%		< 1.0	< 1.0
Benzene	101%		105%	3.9%		< 1.0	< 1.0
1,2-Dichloroethane	110%		114%	4.1%		< 1.0	< 1.0
Trichloroethene	96.4%		98.6%	2.3%		< 1.0	< 1.0
1,2-Dichloropropane	99.0%		103%	3.6%		< 1.0	< 1.0
Dibromomethane	101%		104%	3.3%		< 1.0	< 1.0
Bromodichloromethane	125%		127%	2.1%		< 1.0	< 1.0
cis-1,3-Dichloropropene	84.8%		88.8%	4.6%		< 2.0	< 2.0
Toluene	99.2%		102%	2.4%		< 1.0	< 1.0
trans-1,3-Dichloropropene	87.8%		92.2%	4.9%		< 1.0	< 1.0
1,1,2-Trichloroethane	100%		105%	4.3%		< 1.0	< 1.0
Tetrachloroethene	92.8%		97.4%	4.8%		< 1.0	< 1.0
1,3-Dichloropropane	96.2%		103%	6.6%		< 1.0	< 1.0
Dibromochloromethane	98.4%		98.4%	0.0%		< 1.0	< 1.0
1,2-Dibromoethane	89.4%		93.4%	4.4%		< 1.0	< 1.0
Chlorobenzene	99.4%		101%	1.4%		< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	107%		103%	3.2%		< 1.0	< 1.0
Ethyl benzene	99.8%		99.8%	0.0%		< 1.0	< 1.0
Xylenes, Total	101%		102%	0.8%		< 2.0	< 2.0
Styrene	100%		99.0%	1.0%		< 1.0	< 1.0
Bromoform	94.6%		95.6%	1.1%		< 2.0	< 2.0

TABLE 3
QC Report

Lab # associated with qc samples: W1808 through W1816

	Matrix Spike W1814	Matrix Spike Duplicate W1814			Blank	Blank
Date Analyzed:	2/14/07	2/14/07			2/13/07	2/14/07

Compound	% Rec		% Rec	RPD		ug/L	ug/L
Isopropylbenzene	97.4%		93.6%	4.0%		< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	110%		105%	4.8%		< 2.0	< 2.0
Bromobenzene	105%		103%	1.9%		< 1.0	< 1.0
1,2,3-Trichloropropane	115%		112%	2.5%		< 2.0	< 2.0
n-Propylbenzene	106%		102%	3.5%		< 1.0	< 1.0
2-Chlorotoluene	108%		107%	1.3%		< 1.0	< 1.0
1,3,5-Trimethylbenzene	107%		102%	5.0%		< 1.0	< 1.0
4-Chlorotoluene	107%		105%	1.9%		< 1.0	< 1.0
tert-Butylbenzene	102%		96.4%	5.6%		< 1.0	< 1.0
1,2,4-Trimethylbenzene	108%		102%	5.9%		< 1.0	< 1.0
sec-Butylbenzene	107%		99.2%	7.4%		< 1.0	< 1.0
1,3-Dichlorobenzene	102%		99.6%	2.6%		< 1.0	< 1.0
-Isopropyltoluene	95.4%		92.2%	3.4%		< 1.0	< 1.0
1,4-Dichlorobenzene	99.0%		98.2%	0.8%		< 1.0	< 1.0
n-Butylbenzene	97.2%		91.6%	5.9%		< 1.0	< 1.0
1,2-Dichlorobenzene	96.6%		93.4%	3.4%		< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	91.8%		85.4%	7.2%		< 2.0	< 2.0
1,3,5-Trichlorobenzene	88.4%		85.8%	3.0%		< 1.0	< 1.0
1,2,4-Trichlorobenzene	80.4%		79.4%	1.3%		< 1.0	< 1.0
Hexachlorobutadiene	94.6%		94.4%	0.2%		< 1.0	< 1.0
Naphthalene	75.0%		72.4%	3.5%		< 3.0	< 3.0
1,2,3-Trichlorobenzene	87.0%		83.6%	4.0%		< 1.0	< 1.0

Table 4

QC Results 1,4-Dioxane– February

TABLE 4
QC Report

Lab # associated with qc samples: W1808 through W1816

	Matrix Spike	Matrix Spike Duplicate		LCS	Blank
	W1808	W1808			
Date Extracted:	02/14/07	02/14/07		02/14/07	02/14/07
Date Analyzed:	02/14/07	02/14/07		02/14/07	02/14/07

Compound	% Rec		% Rec	RPD		% Rec	ug/L
1,4-Dioxane	83.9%		87.9%	4.7%		78.8%	< 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

No. 014302 *

Page 1 of 1

Turn Around (circle one) Normal Rush

Report Due:

Project Number:	Mail Report To:	Invoice To:
Project Name: KUHLMAN ELECTRIC	Company: MARTIN & SLAGLE	Company:
Project Location: CRYSTAL SPRINGS	Address:	Address:
Sampled By (Print): Chuck Peel		
		P.O. No.: Quote No.:

Sample Description	Collection Date	Collection Time	Matrix	Total Bottles	Preserv*	Analysis Requested	Comments	Laboratory Number
CSW-WA8-008	02/13/07	0845	W	4	A	8260B + 1,4 Dioxane		W1808
CSW-WA3-008		0855		4	A			W1809
CSW-FB-008		0907		4	A			W1810
CSW-WA1-008		0912		10	A/B			W1811
CSW-WA2-008		0920		4	A			W1812
CSW-WA5-004		0940		4	A			W1813
CSW-WA6-004		0957		4	A			W1814
CSW-~~WA~~ TP-008		1012		4	A			W1815
DUPLICATE	↓	—	↓	9	A/B	↓		W1816

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

Relinquished By: Charles O.M. Peel	Date/Time: 2/13/07 1030	Received By:	Date/Time: 02/13/07 1030
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 ice

Appendix B

FEDEX shipping label for Paradigm Labs

FedEx Express **US Airbill**

FedEx Tracking Number **8535 3172 1760**

Form No. 0245 — **Sender's Copy**

1 From *Please print and press hard.*

Date 02/14/07 Sender's FedEx Account Number

Sender's Name Chuck Peel Phone (601) 856-2792

Company Peel Consulting

Address 140 Chapel Lane

Dept./Floor/Suite/Room

City Madison State MS ZIP 39110

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

To

Recipient's Name ——— Phone (910) 350-1903

Company PARADIGM ANALYTICAL LABS

Recipient's Address 5500 BUSINESS DR

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City WILMINGTON State NC ZIP 28405-8446

0318539504

Try online shipping at fedex.com

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

Questions? Go to our Web site at fedex.com
or call 1.800.GoFedEx 1.800.463.3339.

4a Express Package Service To add SATURDAY Delivery, see Section 6. *Packages up to 150 lbs.* * To most locations.

- [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 To add SATURDAY Delivery, see Section 6. *Packages over 150 lbs.* ** To most locations.

- [ ] 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.
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

6 Special Handling Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery** Available ONLY for FedEx Priority Overnight, FedEx 2Day, FedEx 1Day Freight, and FedEx 2Day Freight 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
- [ ] 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.
- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. or Credit Card No. 181141891 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 *NEW* Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Anyone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, anyone at a neighboring address may sign for delivery. *Fee applies.*

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Rev. Date 5/05•Part #158279•©1994–2005 FedEx•PRINTED IN U.S.A.•SRF

Appendix C

Chain of Custody Sheets for samples sent to Paradigm Labs

CHAIN OF C .ODY RECORD
SGS Environmental Services Inc.

Locations Nationwide
- Alaska
- Louisiana
- New Jersey
- West Virginia
- Hawaii
- Maryland
- North Carolina

www.us.sgs.com

065639

(1)

CLIENT: MARTIN + SLAGLE

CONTACT: ROBERT MARTIN PHONE NO:( )

PROJECT: KUHLMAN ELECTRIC SITE/PWSID# :

REPORTS TO: SAME E-MAIL: FAX NO.:( )

INVOICE TO: SAME QUOTE # P.O. NUMBER

SGS Reference:

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE C= COMP G= GRAB	Preservatives Used: HCL, None	Analysis Required (3): 8260B, 1,4 Dioxane	MOBIL LAB #	REMARKS
	CSW-WA1-008	02/13/07	0912	W	6		X	X		W1811
	DUPLICATE	02/13/07	—	W	5		X	X		W1816
	TRIP BLANK	—	—	W	2					

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
Chuck Peel	2/14/07	1400	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:

Shipping Ticket No:

Special Deliverable Requirements:

Samples Received Cold? (Circle) YES NO

Temperature °C: _____ I _____

Chain of Custody Seal: (Circle)

INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:

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
1270 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761

White - Retained by Lab
Yellow - Returned with Report