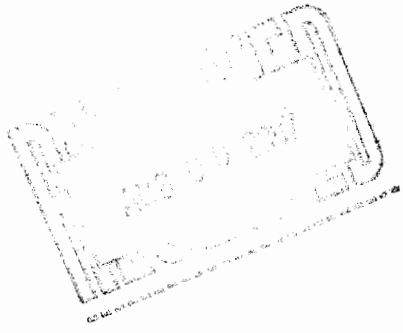
August 9, 2007



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,

Kari-Ann Kilhain

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

August 9, 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 June 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 500mL 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 Field Logbook 150.

Table 1

Sample Results Volatiles– May

TABLE 1

Kuhlman Electric - Crystal Springs, M[illegible]sippi - Volatiles Detected in Water

		W1883	W1884	W1885	W1886	W1887	W1888	W1889	W1890	1891
		CSW	CSW	CSW	CSW	CSW	CSW	CSW	CSW	CSW
		WA8	WA3	FB	WA1	WA2	WA5	WA6	TP	Duplicate
		011	011	011	011	011	007	007	011	
	Depth	-	-	-	-	-	-	-	-	
	Date Collected	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07
	Time Collected	8:40	8:52	9:00	9:05	9:15	9:52	10:02	10:15	-
	Date Analyzed	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07
	Reporting Limit									
VOLATILES	ug/L									
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, M[illegible]sippi - Volatiles Detected in Water

		W1883	W1884	W1885	W1886	W1887	W1888	W1889	W1890	W1891
		CSW	CSW	CSW	CSW	CSW	CSW	CSW	CSW	CSW
		WA8	WA3	FB	WA1	WA2	WA5	WA6	TP	Duplicate
		011	011	011	011	011	007	007	011	
	Depth	-	-	-	-	-	-	-	-	
	Date Collected	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07
	Time Collected	8:40	8:52	9:00	9:05	9:15	9:52	10:02	10:15	-
	Date Analyzed	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-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	**1.5**	< 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	%	102	103	103	101	108	108	111	110	106
Toluene-D8	%	80.6	104	84.7	82.9	109	81.7	79.2	3.9 *	80.0
4-Bromofluorobenzene	%	95.9	94.3	101	97.3	94.8	99.2	102	102	99.0

* = Repeat analysis produced similar low surrogate recovery.

Table 2

Sample Results 1,4-Dioxane– May

TABLE 2

Kuhlman Electric - Crystal Springs, Mis[illegible]ppi - 1,4-Dioxane Detected in Water

VOLATILES	Reporting Limit ug/L	W1883 CSW WA8 011	W1884 CSW WA3 011	W1885 CSW FB 011	W1886 CSW WA1 011	W1887 CSW WA2 011	W1888 CSW WA5 007	W1889 CSW WA6 007	W1890 CSW TP 011	[illegible]891 CSW Duplicate
Depth		-	-	-	-	-	-	-	-	
Date Collected		22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07
Time Collected		8:40	8:52	9:00	9:05	9:15	9:52	10:02	10:15	-
Date Analyzed		22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07	22-May-07
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	%	85.0	82.1	84.7	104	88.1	94.2	91.9	90.9	90.3

Table 3

QC Results Volatiles– May

TABLE 3
QC Report

Lab # associated with qc samples: W1883 through W1891

	Matrix Spike W1883	Matrix Spike Duplicate W1883		Blank
Date Analyzed:	5/22/07	5/22/07		5/22/07

Compound	% Rec		% Rec	RPD		ug/L
Dichlorodifluoromethane	95.5%		92.0%	3.7%		< 1.0
Chloromethane	123%		120%	2.9%		< 1.0
Vinyl chloride	105%		100%	4.4%		< 1.0
Bromomethane	118%		129%	8.5%		< 1.0
Chloroethane	120%		123%	2.1%		< 1.0
Trichlorofluoromethane	109%		112%	2.3%		< 1.0
1,1-Dichloroethene	109%		110%	0.9%		< 1.0
Methylene chloride	88.0%		94.0%	6.6%		< 1.0
trans-1,2-Dichloroethene	114%		109%	4.5%		< 1.0
1,1-Dichloroethane	123%		118%	4.2%		< 1.0
cis-1,2-Dichloroethene	112%		111%	0.4%		< 1.0
2,2-Dichloropropane	113%		107%	5.0%		< 1.0
Bromochloromethane	111%		112%	0.9%		< 1.0
Chloroform	124%		126%	1.2%		< 1.0
1,1,1-Trichloroethane	112%		114%	1.8%		< 1.0
1,1-Dichloropropene	106%		111%	4.2%		< 1.0
Carbon tetrachloride	109%		109%	0.0%		< 1.0
Benzene	107%		107%	0.5%		< 1.0
1,2-Dichloroethane	115%		107%	6.8%		< 1.0
Trichloroethene	106%		78.5%	29.8%		< 1.0
1,2-Dichloropropane	98.0%		106%	7.8%		< 1.0
Dibromomethane	98.5%		104%	5.0%		< 1.0
Bromodichloromethane	86.5%		87.5%	1.1%		< 1.0
cis-1,3-Dichloropropene	69.5%		73.5%	5.6%		< 2.0
Toluene	76.0%		79.0%	3.9%		< 1.0
trans-1,3-Dichloropropene	73.5%		83.0%	12.1%		< 1.0
1,1,2-Trichloroethane	75.0%		81.5%	8.3%		< 1.0
Tetrachloroethene	66.0%		73.0%	10.1%		< 1.0
1,3-Dichloropropane	78.5%		82.0%	4.4%		< 1.0
Dibromochloromethane	76.5%		82.0%	6.9%		< 1.0
1,2-Dibromoethane	74.0%		77.5%	4.6%		< 1.0
Chlorobenzene	89.5%		90.5%	1.1%		< 1.0
1,1,1,2-Tetrachloroethane	112%		107%	5.0%		< 1.0
Ethyl benzene	95.5%		99.0%	3.6%		< 1.0
Xylenes, Total	91.0%		95.3%	4.6%		< 2.0
Styrene	68.0%		83.0%	19.9%		< 1.0
Bromoform	94.0%		88.5%	6.0%		< 2.0

TABLE 3
QC Report

Lab # associated with qc samples: W1883 through W1891

	Matrix Spike W1883		Matrix Spike Duplicate W1883			Blank
Date Analyzed:	5/22/07		5/22/07			5/22/07

Compound	% Rec		% Rec	RPD		ug/L
Isopropylbenzene	84.0%		85.5%	1.8%		< 1.0
1,1,2,2-Tetrachloroethane	101%		99.0%	1.5%		< 2.0
Bromobenzene	95.5%		97.5%	2.1%		< 1.0
1,2,3-Trichloropropane	109%		111%	2.3%		< 2.0
n-Propylbenzene	93.0%		91.5%	1.6%		< 1.0
2-Chlorotoluene	94.0%		96.0%	2.1%		< 1.0
1,3,5-Trimethylbenzene	86.0%		90.5%	5.1%		< 1.0
4-Chlorotoluene	95.5%		95.0%	0.5%		< 1.0
tert-Butylbenzene	82.0%		83.0%	1.2%		< 1.0
1,2,4-Trimethylbenzene	77.5%		88.0%	12.7%		< 1.0
sec-Butylbenzene	83.0%		84.0%	1.2%		< 1.0
1,3-Dichlorobenzene	101%		97.5%	3.0%		< 1.0
p-Isopropyltoluene	88.5%		90.5%	2.2%		< 1.0
1,4-Dichlorobenzene	90.0%		87.5%	2.8%		< 1.0
n-Butylbenzene	92.5%		92.5%	0.0%		< 1.0
1,2-Dichlorobenzene	95.5%		96.5%	1.0%		< 1.0
1,2-Dibromo-3-chloropropane	86.5%		115%	27.9%		< 2.0
1,3,5-Trichlorobenzene	86.5%		88.0%	1.7%		< 1.0
1,2,4-Trichlorobenzene	79.5%		81.0%	1.9%		< 1.0
Hexachlorobutadiene	94.5%		91.0%	3.8%		< 1.0
Naphthalene	70.5%		72.5%	2.8%		< 3.0
1,2,3-Trichlorobenzene	83.0%		85.5%	3.0%		< 1.0

Table 4

QC Results 1,4-Dioxane– May

TABLE 4
QC Report

Lab # associated with qc samples: W1883 through W1891

	Matrix Spike	Matrix Spike Duplicate		LCS	Blank
	W1886	W1886			
Date Extracted:	05/22/07	05/22/07		05/22/07	05/22/07
Date Analyzed:	05/22/07	05/22/07		05/22/07	05/22/07

Compound	% Rec		% Rec	RPD		% Rec	ug/L
1,4-Dioxane	116%		88.6%	26.8%		89.4%	< 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. 012737

Page 1 of 1

Turn Around (circle one) Normal Rush	
Report Due:	
Project Number	Mail Report To:
Project Name: KUHLMAN ELECTRIC	Company: MIRTIN — SCALLE
Project Location: CRYSTAL SPRINGS	Address:
Sampled By (Print): Charles Paul	
	P.O. No: Quote No.:

Sample Description	Collection Date	Collection Time	Matrix	Total Bottles	Preserv*	Analysis Requested	Comments	Laboratory Number
CSW-WA8-011	5/22/07	0840	W	4	A/B	1,4 DIOXANE + 8260B		W1F83
CSW-WA3-011		0852	W	4	A/B			W1F84
CSW-FB-011		0900	W	4	A/B			W1F85
CSW-WA1-011		0905	W	13	A/B			W1F86
CSW-WA2-011		0915	W	4	A/B			W1F87
CSW-WA5-007		0952	W	4	A/B			W1F88
CSW-WA6-007		1002	W	4	A/B			W1F89
CSW-TP-011		1015	W	4	A/B			W1F90
DUPLICATE	↓	—	W	10	A/B	↓		W1F91

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

Relinquished By: Charles Paul	Date/Time: 5/22/07 1030	Received By:	Date/Time: 5/22/07 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 Wet Ice

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

Appendix B

FEDEX shipping label for Paradigm Labs

FedEx Express **US Airbill**

FedEx Tracking Number 8613 1266 2868

1 From *Please print and press hard.*

Date 23 MAY 07 Sender's FedEx Account Number 1811-4189-1

Sender's Name R JOHNSON Phone (910) 350-1903

Company SGS ENVIRONMENTAL SVC

Address 5500 BUSINESS DR Dept./Floor/Suite/Room

City WILMINGTON State NC ZIP 28405-8446

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

3 To

Recipient's Name SHIPPER CUSTODIAN Phone (910) 350 1903

Company SGS ENVIRONMENTAL SVC

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

0356033367

Schedule a pickup at fedex.com
Simplify your shipping. Manage your account. Access all the tools you need.

MUR11

ID No. 0215

4a Express Package Service *Packages up to 150 lbs.*

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available

* Call for Confirmation: ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery** NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] **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:* 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. 1811-4189-1 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. 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.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

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

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Appendix C

Chain of Custody Sheets for samples sent to Paradigm Labs

CHAIN OF CUSTODY RECORD
SGS Enviromental Services Inc.

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

www.us.sgs.com

078803

(1)

CLIENT: MARTIN & SLAGLE

CONTACT: ROBERT MARTIN PHONE NO:( )

PROJECT: HOLLINGSWORTH ELECTRIC SITE/PWSID#:

REPORTS TO: STAMIC 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										REMARKS
							Analysis Required (3)	PZLC6	1,4 Dioxane							Mobile Lab #	
	CSW-WA1-011	5/22/07	0905	W	5		X	X									W1886
	DUPLICATE	5/22/07	—	W	6		X	X									W1891
	TRIP BLANK	—	—	—	2												—
																	Mark 8.5x11 report
																	Emil for 1,4 Dioxane

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:	Date	Time
[signature]	5/23/07	1110			
Relinquished By: (2)	Date	Time	Received By:	Date	Time
Relinquished By: (3)	Date	Time	Received By:	Date	Time
Relinquished By: (4)	Date	Time	Received By:	Date	Time

(4)

Shipping Carrier: Samples Received Cold? (Circle) YES NO

Shipping Ticket No: Temperature °C: _____ °F _____

Special Deliverable Requirements: Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Special Instructions:

Requested Turnaround Time:

☐ RUSH _____ Date Needed ☐ STD