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 Killian

for Joseph Kubale

Enclosure

Environmental Chemistry Consulting Services, Inc.
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Technical Memorandum

Kuhlman Electric Corporation (KEC)

Crystal Springs, Mississippi

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 April 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– April

TABLE 1

Kuhlman Electric - Crystal Springs, Mis sippi - Volatiles Detected in Water

VOLATILES	Reporting Limit ug/L	W1866 CSW WA8 010	W1867 CSW WA3 010	W1868 CSW FB 010	W1869 CSW WA1 010	W1870 CSW WA2 010	W1871 CSW WA5 006	W1872 CSW WA6 006	W1873 CSW TP 010	874 CSW Duplicate
Depth		-	-	-	-	-	-	-	-	
Date Collected		17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	-	17-Apr-07	17-Apr-07
Time Collected		9:40	9:50	10:22	10:25	10:37	11:05	-	11:30	-
Date Analyzed		17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	-	17-Apr-07	17-Apr-07
Dichlorodifluoromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Chloromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Vinyl Chloride	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Bromomethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Chloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Trichlorofluoromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,1-Dichloroethene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Methylene Chloride	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
trans-1,2-Dichloroethene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,1-Dichloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
cis-1,2-Dichloroethene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
2,2-Dichloropropane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Bromochloromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Chloroform	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,1,1-Trichloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,1-Dichloropropene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Carbon Tetrachloride	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Benzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,2-Dichloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Trichloroethene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,2-Dichloropropane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Dibromomethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Bromodichloromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	**1.1**	< 1.0
cis-1,3-Dichloropropene	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NC	< 2.0	< 2.0
Toluene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
trans-1,3-Dichloropropene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,1,2-Trichloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Tetrachloroethene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,3-Dichloropropane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Dibromochloromethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	**2.7**	< 1.0
1,2-Dibromoethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Chlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Ethyl Benzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0

TABLE 1

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

		W1866	W1867	W1868	W1869	W1870	W1871	W1872	W1873	874
		CSW	CSW	CSW	CSW	CSW	CSW	CSW	CSW	CSW
		WA8	WA3	FB	WA1	WA2	WA5	WA6	TP	Duplicate
		010	010	010	010	010	006	006	010	
	Depth	-	-	-	-	-	-	-	-	
	Date Collected	17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	-	17-Apr-07	17-Apr-07
	Time Collected	9:40	9:50	10:22	10:25	10:37	11:05	-	11:30	-
	Date Analyzed	17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	-	17-Apr-07	17-Apr-07
	Reporting Limit									
VOLATILES	ug/L									
Xylenes, Total	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NC	< 2.0	< 2.0
Styrene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Bromoform	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NC	**3.4**	< 2.0
Isopropylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NC	< 2.0	< 2.0
Bromobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,2,3-Trichloropropane	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NC	< 2.0	< 2.0
n-Propylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
2-Chlorotoluene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,3,5-Trimethylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
4-Chlorotoluene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
tert-Butylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,2,4-Trimethylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
sec-Butylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,3-Dichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
p-Isopropyltoluene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,4-Dichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
n-Butylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,2-Dichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NC	< 2.0	< 2.0
1,3,5-Trichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
1,2,4-Trichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Hexachlorobutadiene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Naphthalene	3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	NC	< 3.0	< 3.0
1,2,3-Trichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	< 1.0	< 1.0
Surrogates:										
Dibromofluoromethane	%	112	107	104	97.2	108	111	NC	109	104
Toluene-D8	%	99.0	93.9	99.9	99.2	98.6	98.4	NC	99.0	99.5
4-Bromofluorobenzene	%	95.8	95.8	96.1	95.0	97.4	94.5	NC	93.6	95.3

NC = Not collected due to pump failure.

Table 2

Sample Results 1,4-Dioxane– April

TABLE 2

Kuhlman Electric - Crystal Springs, Missi[illegible]pi - 1,4-Dioxane Detected in Water

		W1866	W1867	W1868	W1869	W1870	W1871	W1872	W1873	W1874
		CSW	CSW	CSW	CSW	CSW	CSW	CSW	CSW	CSW
		WA8	WA3	FB	WA1	WA2	WA5	WA6	TP	Duplicate
		010	010	010	010	010	006	006	010	
	Depth	-	-	-	-	-	-	-	-	
	Date Collected	17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	-	17-Apr-07	17-Apr-07
	Time Collected	9:40	9:50	10:22	10:25	10:37	11:05	-	11:30	-
	Date Analyzed	17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	17-Apr-07	-	-	17-Apr-07
	Reporting Limit									
VOLATILES	ug/L									
1,4-Dioxane	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NC	NA	< 1.0
Surrogates:										
1,4-Dioxane-D8	%	87.7	110	90.6	95.1	103	95.1	NC	NA	93.7

NC = Not collected due to pump failure.
NA = Not analyzed due to bottle breakage.

Table 3

QC Results Volatiles– April

TABLE 3
QC Report

Lab # associated with qc samples: W1866 through W1871
Matrix W1873 through W1874

	Matrix Spike W1867	Matrix Spike Duplicate W1867	Blank
Date Analyzed:	4/17/07	4/17/07	4/17/07

Compound	% Rec		% Rec	RPD		ug/L
Dichlorodifluoromethane	89.2%		88.6%	0.7%		< 1.0
Chloromethane	80.2%		101%	22.6%		< 1.0
Vinyl chloride	86.2%		99.2%	14.0%		< 1.0
Bromomethane	98.4%		104%	5.5%		< 1.0
Chloroethane	90.4%		106%	15.9%		< 1.0
Trichlorofluoromethane	90.0%		103%	13.9%		< 1.0
1,1-Dichloroethene	86.2%		100%	14.8%		< 1.0
Methylene chloride	71.6%		95.2%	28.3%		< 1.0
trans-1,2-Dichloroethene	85.4%		109%	24.5%		< 1.0
1,1-Dichloroethane	155%		106%	37.5%		< 1.0
cis-1,2-Dichloroethene	98.6%		87.6%	11.8%		< 1.0
2,2-Dichloropropane	97.4%		96.2%	1.2%		< 1.0
Bromochloromethane	101%		99.6%	1.2%		< 1.0
Chloroform	109%		103%	6.2%		< 1.0
1,1,1-Trichloroethane	102%		100%	1.2%		< 1.0
1,1-Dichloropropene	92.4%		92.2%	0.2%		< 1.0
Carbon tetrachloride	102%		99.2%	2.8%		< 1.0
Benzene	99.4%		98.6%	0.8%		< 1.0
1,2-Dichloroethane	100%		102%	1.6%		< 1.0
Trichloroethene	93.0%		96.2%	3.4%		< 1.0
1,2-Dichloropropane	96.6%		96.4%	0.2%		< 1.0
Dibromomethane	100%		98.2%	1.8%		< 1.0
Bromodichloromethane	86.0%		82.6%	4.0%		< 1.0
cis-1,3-Dichloropropene	85.6%		89.0%	3.9%		< 2.0
Toluene	98.2%		96.6%	1.6%		< 1.0
trans-1,3-Dichloropropene	91.6%		93.4%	1.9%		< 1.0
1,1,2-Trichloroethane	102%		103%	0.2%		< 1.0
Tetrachloroethene	93.6%		93.0%	0.6%		< 1.0
1,3-Dichloropropane	97.8%		98.0%	0.2%		< 1.0
Dibromochloromethane	101%		96.0%	4.7%		< 1.0
1,2-Dibromoethane	94.4%		93.6%	0.9%		< 1.0
Chlorobenzene	90.8%		92.0%	1.3%		< 1.0
1,1,1,2-Tetrachloroethane	102%		101%	1.2%		< 1.0
Ethyl benzene	99.4%		98.6%	0.8%		< 1.0
Xylenes, Total	97.2%		100%	3.0%		< 2.0
Styrene	97.0%		98.2%	1.2%		< 1.0
Bromoform	95.4%		95.8%	0.4%		< 2.0

TABLE 3
QC Report

Lab # associated with qc samples: W1866 through W1871
Matrix W1873 through W1874

	Matrix Spike W1867	Matrix Spike Duplicate W1867		Blank
Date Analyzed:	4/17/07	4/17/07		4/17/07

Compound	% Rec		% Rec	RPD		ug/L
Isopropylbenzene	93.0%		99.2%	6.5%		< 1.0
1,1,2,2-Tetrachloroethane	108%		112%	3.1%		< 2.0
Bromobenzene	100%		99.8%	0.2%		< 1.0
1,2,3-Trichloropropane	103%		105%	1.3%		< 2.0
n-Propylbenzene	97.0%		104%	6.6%		< 1.0
2-Chlorotoluene	97.8%		105%	6.7%		< 1.0
1,3,5-Trimethylbenzene	99.2%		105%	5.7%		< 1.0
4-Chlorotoluene	98.2%		102%	3.4%		< 1.0
tert-Butylbenzene	97.8%		102%	3.8%		< 1.0
1,2,4-Trimethylbenzene	100%		108%	7.7%		< 1.0
sec-Butylbenzene	98.6%		106%	7.2%		< 1.0
1,3-Dichlorobenzene	96.6%		99.8%	3.3%		< 1.0
p-Isopropyltoluene	95.0%		102%	6.7%		< 1.0
1,4-Dichlorobenzene	98.0%		106%	7.8%		< 1.0
n-Butylbenzene	93.4%		103%	9.8%		< 1.0
1,2-Dichlorobenzene	95.4%		99.4%	4.1%		< 1.0
1,2-Dibromo-3-chloropropane	107%		100%	6.6%		< 2.0
1,3,5-Trichlorobenzene	90.8%		99.4%	9.0%		< 1.0
1,2,4-Trichlorobenzene	88.6%		96.4%	8.4%		< 1.0
Hexachlorobutadiene	95.6%		101%	5.3%		< 1.0
Naphthalene	87.8%		99.0%	12.0%		< 3.0
1,2,3-Trichlorobenzene	91.0%		102%	11.4%		< 1.0

Table 4

QC Results 1,4-Dioxane– April

TABLE 4
QC Report

Lab # associated with qc samples: W1866 through W1871 and W1874

	Matrix Spike	Matrix Spike Duplicate		LCS	Blank
	W1869	W1869			
Date Extracted:	04/17/07	04/17/07		04/17/07	04/17/07
Date Analyzed:	04/18/07	04/18/07		04/17/07	04/17/07

Compound	% Rec		% Rec	RPD		% Rec	ug/L
1,4-Dioxane	99.9%		108%	7.8%		98.4%	< 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 COUNTY

City wells

No. 1 1655 *

Page 1 of 1

Turn Around (circle one) Normal Rush

Report Due:

Project Number:
Project Name: Kuhlman Electric
Project Location: Crystal Springs
Sampled By (Print): Chuck Reid

Mail Report To:
Company: Martin + Slagle
Address:

Invoice To:
Company:
Address:
P.O. No.: Quote No.:

Sample Description	Collection Date	Collection Time	Matrix	Total Bottles	Preserv*	Analysis Requested	Comments	Laboratory Number
CSW-WA8-010	4/17/07	0940	W	4	A	1,4 Dioxane + 8260		W1866
CSW-WA3-010	↓	0950	↓	4	A	↓		W1867
CSW-FB-010	↓	1022	↓	4	A	↓		W1868
CSW-WA1-010	↓	1025	↓	~~10~~ 13	A/E	↓		W1869
CSW-WA2-010	↓	1037	↓	4	A	↓		W1870
CSW-WA5-006	↓	1105	↓	4	A	↓		W1871
CSW-WA6-006	↓	~~1115~~	↓	~~4~~	~~A~~	↓	NOT SAMPLED - PUMP FAILURE	W1872
CSW-TP-010	↓	1130	↓	4	A	↓		W1873
DUPLICATE	↓	—	↓	10	A/E	↓		W1874

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

Relinquished By: Chuck Reid | Date/Time: 4/17/07 1200 | Received By: [signature] | Date/Time: 4/17/07 1200

Relinquished By: | Date/Time: | Received By: | Date/Time:

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

Receipt Temp:

Temp Blank Y N

Shipped Via

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

Appendix B

FEDEX shipping label for Paradigm Labs

FedEx Express **US Airbill**

FedEx Tracking Number 8600 1565 5985

Form ID No. 0215

From Please print and press hard

Date 4/18/07

Sender's FedEx Account Number

Sender's Name CHUCK PEEL Phone (608) 838-2782

Company PEEL CONSULTING

Address 140 CHAPEL LANE

Dept/Floor/Suite/Room

City MADISON State WI ZIP 53110

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

3 To

Recipient's Name SAMPLE RECEIPT 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 28405-6446

0347431747

Store your addresses at fedex.com
Simplify your shipping. Manage your account. Access all the tools you need.

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
- [ ] 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. 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.

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 11/05•Part #150279•©1994–2005 FedEx•PRINTED IN U.S.A.•SRF

Appendix C

Chain of Custody Sheets for samples sent to Paradigm Labs

CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

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

www.us.sgs.com

062186

(1)

CLIENT: MARTIN & STANLEY

CONTACT: ROBERT MARTIN PHONE NO:( )

PROJECT: KUHLMAN ELECTRIC SITE/PWSID# :

REPORTS TO: E-MAIL:

SAME FAX NO.:( )

INVOICE TO: QUOTE #

SAME 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) PCBs	1,4-Dioxane	MOBIL LAB #	REMARKS
	CSL-WA1-010	4/17/07	1025	W	5			X	X				W1869
	DUPLICATE	4/17/07	—	W	5			X	X				W1874
	TRIP BLANK	—	—	—	2								
													Check Reporting limit for 1,4 Dioxane @ 0.5ug/L

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[signature]	4/18/07	1410	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:	Samples Received Cold? (Circle) YES NO
Shipping Ticket No:	Temperature ∫C:_____ T_____
Special Deliverable Requirements:	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
Pink - Retained by Sampler