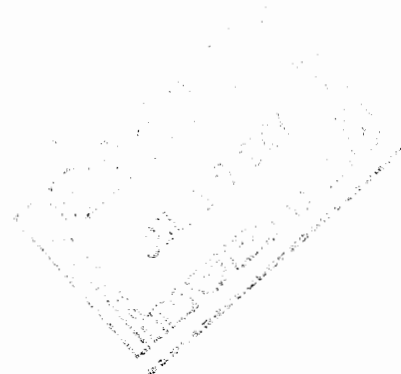


July 4, 2007

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,

Kari-Ann Gillman

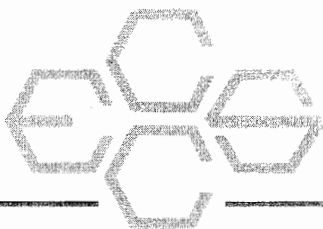
for Joseph Kubale

Enclosure

Technical Memorandum

Kuhlman Electric Corporation (KEC)

Crystal Springs, Mississippi



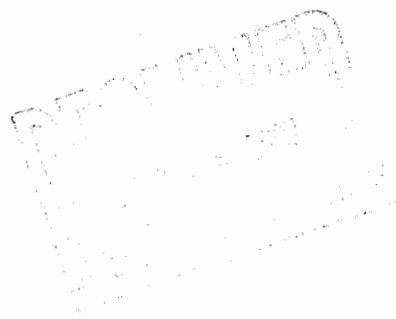
TECHNICAL MEMORANDUM

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 January 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.

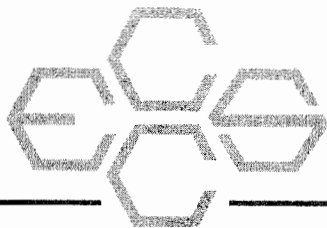
Narrative

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 |



TECHNICAL MEMORANDUM

July 4, 2007

To: Robert Martin
Martin and Slagle

From: Joseph Kubale ^{kk}_{for}
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 January 2007 during the Waterloo profile groundwater investigation 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 |

Environmental Chemistry Consulting Services, Inc.

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

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, quantitation and qualifier ion relative responses to that of an authentic standard. Quantitation is accomplished by comparing the response of the major (quantitation) ion relative to an internal standard using a seven point calibration curve. These levels equate to 0.5, 1.0, 2.5, 5.0, 10, 50 and 100 ug/L for water samples.

A Hewlett-Packard 5890 Series II gas chromatograph with a 30m x 0.32mm 1.8u film, RTX-624 micro-capillary column interfaced to a Hewlett-Packard 5972 MSD was used. The data system included a Hewlett-Packard Enviroquant chromatography workstation for data handling.

Quality control consisted of the following items:

- Initial calibration with % relative standard deviation less than 15% of individual response factors obtained from analysis of calibration standards
- Continuing Calibration Verification standards analyzed at a frequency of every ten samples or less
- Surrogate standard additions to samples
- Blank and LCS samples analyzed every twenty samples or less with a minimum of one per day per matrix.
- MS/MSD samples analyzed every twenty samples or less per matrix.
- Information documented in Field Logbook 150.

Table 1

Sample Results Volatiles- January

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

| VOLATILES | Depth Collected | Date Collected Time Collected | Date Analyzed Reporting Limit | W1780 | | W1781 | | W1782 | | W1783 | | W1784 | | W1785 | | W1786 | | W1787 | | Duplicate 01 |
|-----------------------------|--------------------|----------------------------------|----------------------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|------------------|-------------------|-------------------|------------------|-------------------|------------------|-------|-----------------|
| | | | | CSW WA8 007 | CSW WA3 007 | CSW FB 007 | CSW WA1 007 | CSW WA2 007 | CSW WA5 003 | CSW WA6 003 | CSW TP 007 | CSW WA6 003 | CSW TP 007 | CSW WA5 003 | CSW WA6 003 | CSW TP 007 | CSW WA6 003 | CSW TP 007 | | |
| Xylenes, Total | 2.0 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 |
| Styrene | 1.0 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Bromoform | 2.0 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 |
| Isopropylbenzene | 1.0 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 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 | 16-Jan-07 8:25 | 16-Jan-07 8:35 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Surrogates: | | | | | | | | | | | | | | | | | | | | |
| Dibromofluoromethane | % | | | 110 | 105 | 117 | 101 | 104 | 122 | 120 | 121 | 113 | | | | | | | | |
| Toluene-D8 | % | | | 98.4 | 99.3 | 98.0 | 100 | 100 | 100 | 101 | 101 | 99.4 | | | | | | | | |
| 4-Bromofluorobenzene | % | | | 95.3 | 95.0 | 95.8 | 96.4 | 96.4 | 97.4 | 96.9 | 96.6 | 97.2 | | | | | | | | |

| VOLATILES | Depth Date Collected Time Collected Date Analyzed Reporting Limit ug/L | W1789 | |
|---------------------------|---|-----------------|--|
| | | Duplicate 02 | |
| Dichlorodifluoromethane | 1.0 | < 1.0 | |
| Chloromethane | 1.0 | < 1.0 | |
| Vinyl Chloride | 1.0 | < 1.0 | |
| Bromomethane | 1.0 | < 1.0 | |
| Chloroethane | 1.0 | < 1.0 | |
| Trichlorofluoromethane | 1.0 | < 1.0 | |
| 1,1-Dichloroethene | 1.0 | < 1.0 | |
| Methylene Chloride | 1.0 | < 1.0 | |
| trans-1,2-Dichloroethene | 1.0 | < 1.0 | |
| 1,1-Dichloroethane | 1.0 | < 1.0 | |
| cis-1,2-Dichloroethene | 1.0 | < 1.0 | |
| 2,2-Dichloropropane | 1.0 | < 1.0 | |
| Bromochloromethane | 1.0 | < 1.0 | |
| Chloroform | 1.0 | < 1.0 | |
| 1,1,1-Trichloroethane | 1.0 | < 1.0 | |
| 1,1-Dichloropropene | 1.0 | < 1.0 | |
| Carbon Tetrachloride | 1.0 | < 1.0 | |
| Benzene | 1.0 | < 1.0 | |
| 1,2-Dichloroethane | 1.0 | < 1.0 | |
| Trichloroethene | 1.0 | < 1.0 | |
| 1,2-Dichloropropane | 1.0 | < 1.0 | |
| Dibromomethane | 1.0 | < 1.0 | |
| Bromodichloromethane | 1.0 | < 1.0 | |
| cis-1,3-Dichloropropene | 2.0 | < 2.0 | |
| Toluene | 1.0 | < 1.0 | |
| trans-1,3-Dichloropropene | 1.0 | < 1.0 | |
| 1,1,2-Trichloroethane | 1.0 | < 1.0 | |
| Tetrachloroethene | 1.0 | < 1.0 | |
| 1,3-Dichloropropane | 1.0 | < 1.0 | |
| Dibromochloromethane | 1.0 | < 1.0 | |
| 1,2-Dibromoethane | 1.0 | < 1.0 | |
| Chlorobenzene | 1.0 | < 1.0 | |
| 1,1,1,2-Tetrachloroethane | 1.0 | < 1.0 | |
| Ethyl Benzene | 1.0 | < 1.0 | |

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

| W1789 Duplicate 02 | | 16-Jan-07 17-Jan-07 | |
|-----------------------------|---------------|------------------------|----------------|
| | Depth | Date Collected | Time Collected |
| | Date Analyzed | Reporting Limit | ug/L |
| VOLATILES | | | |
| Xylenes, Total | 2.0 | < | 2.0 |
| Styrene | 1.0 | < | 1.0 |
| Bromoform | 2.0 | < | 2.0 |
| Isopropylbenzene | 1.0 | < | 1.0 |
| 1,1,2,2-Tetrachloroethane | 2.0 | < | 2.0 |
| Bromobenzene | 1.0 | < | 1.0 |
| 1,2,3-Trichloropropane | 2.0 | < | 2.0 |
| n-Propylbenzene | 1.0 | < | 1.0 |
| 2-Chlorotoluene | 1.0 | < | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | < | 1.0 |
| 4-Chlorotoluene | 1.0 | < | 1.0 |
| tert-Butylbenzene | 1.0 | < | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | < | 1.0 |
| sec-Butylbenzene | 1.0 | < | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | < | 1.0 |
| p-Isopropyltoluene | 1.0 | < | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | < | 1.0 |
| n-Butylbenzene | 1.0 | < | 1.0 |
| 1,2-Dichlorobenzene | 1.0 | < | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 2.0 | < | 2.0 |
| 1,3,5-Trichlorobenzene | 1.0 | < | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | < | 1.0 |
| Hexachlorobutadiene | 1.0 | < | 1.0 |
| Naphthalene | 3.0 | < | 3.0 |
| 1,2,3-Trichlorobenzene | 1.0 | < | 1.0 |
| Surrogates: | | | |
| Dibromofluoromethane | % | | 116 |
| Toluene-D8 | % | | 101 |
| 4-Bromofluorobenzene | % | | 97.5 |

Table 2

Sample Results 1,4-Dioxane— January

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

| | | W1780 | W1781 | W1782 | W1783 | W1784 | W1785 | W1786 | W1787 | W1788 |
|------------------|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | CSW | CSW | CSW | CSW | CSW | CSW | CSW | CSW | Duplicate |
| | | WA8 | WA3 | FB | WA1 | WA2 | WA5 | WA6 | TP | 01 |
| | | 007 | 007 | 077 | 007 | 007 | 003 | 003 | 007 | |
| Depth | | - | - | - | - | - | - | - | - | - |
| Date Collected | | 16-Jan-07 | 16-Jan-07 | 16-Jan-07 | 16-Jan-07 | 16-Jan-07 | 16-Jan-07 | 16-Jan-07 | 16-Jan-07 | 16-Jan-07 |
| Time Collected | | 8:25 | 8:35 | 8:58 | 9:00 | 9:10 | 9:35 | 9:50 | 10:01 | - |
| Date Analyzed | | 17-Jan-07 | 17-Jan-07 | 17-Jan-07 | 17-Jan-07 | 17-Jan-07 | 17-Jan-07 | 17-Jan-07 | 17-Jan-07 | 17-Jan-07 |
| Reporting Limit | | | | | | | | | | |
| ug/L | | | | | | | | | | |
| VOLATILES | | | | | | | | | | |
| 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 | % | 94.3 | 86.9 | 87.0 | 85.3 | 108 | 80.5 | 71.6 | 69.1 | 74.7 |

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

| W1789 Duplicate 02 | | Depth | Date Collected | Time Collected | Date Analyzed | Reporting Limit | ug/L | | | | | | | | | | | | | |
|--------------------------|--|-------|----------------|----------------|---------------|-----------------|------|-------|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | 16-Jan-07 | - | 17-Jan-07 | | | < 1.0 | | | | | | | | | | | | |
| VOLATILES | | | | | | | | | | | | | | | | | | | | |
| 1,4-Dioxane | | 1.0 | | | | | | | | | | | | | | | | | | |
| Surrogates: | | | | | | | | | | | | | | | | | | | | |
| 1,4-Dioxane-D8 | | % | | | | | | 66.2 | | | | | | | | | | | | |

Table 3

QC Results Volatiles– January

TABLE 3
QC Report

Lab # associated with qc samples: W1780 through W1789

| | | | |
|----------------|-----------|-----------|---------|
| | Matrix | Matrix | |
| | Spike | Spike | |
| | Duplicate | Duplicate | Blank |
| | W1787 | W1787 | |
| Date Analyzed: | 1/17/07 | 1/17/07 | 1/17/07 |

| Compound | % Rec | % Rec | RPD | ug/L |
|---------------------------|-------|-------|-------|-------|
| Dichlorodifluoromethane | 96.8 | 98.6 | 1.8% | < 1.0 |
| Chloromethane | 87.2 | 86.0 | 1.4% | < 1.0 |
| Vinyl chloride | 91.8 | 88.8 | 3.3% | < 1.0 |
| Bromomethane | 74.4 | 101 | 30.3% | < 1.0 |
| Chloroethane | 84.4 | 91.2 | 7.7% | < 1.0 |
| Trichlorofluoromethane | 100 | 94.2 | 6.0% | < 1.0 |
| 1,1-Dichloroethene | 97.6 | 91.6 | 6.3% | < 1.0 |
| Methylene chloride | 96 | 89.2 | 7.3% | < 1.0 |
| trans-1,2-Dichloroethene | 97.4 | 92.4 | 5.3% | < 1.0 |
| 1,1-Dichloroethane | 99.8 | 98.6 | 1.2% | < 1.0 |
| cis-1,2-Dichloroethene | 104 | 136 | 26.7% | < 1.0 |
| 2,2-Dichloropropane | 97.8 | 108 | 9.9% | < 1.0 |
| Bromochloromethane | 126 | 130 | 3.1% | < 1.0 |
| Chloroform | 145 | 148 | 2.0% | < 1.0 |
| 1,1,1-Trichloroethane | 123 | 130 | 5.5% | < 1.0 |
| 1,1-Dichloropropene | 97.4 | 103 | 5.6% | < 1.0 |
| Carbon tetrachloride | 99.2 | 104 | 4.7% | < 1.0 |
| Benzene | 103 | 107 | 3.8% | < 1.0 |
| 1,2-Dichloroethane | 115 | 126 | 9.1% | < 1.0 |
| Trichloroethene | 106 | 108 | 1.9% | < 1.0 |
| 1,2-Dichloropropane | 106 | 111 | 4.6% | < 1.0 |
| Dibromomethane | 118 | 119 | 0.8% | < 1.0 |
| Bromodichloromethane | 112 | 118 | 5.2% | < 1.0 |
| cis-1,3-Dichloropropene | 98.8 | 104 | 5.1% | < 2.0 |
| Toluene | 104 | 109 | 4.7% | < 1.0 |
| trans-1,3-Dichloropropene | 104 | 111 | 6.5% | < 1.0 |
| 1,1,2-Trichloroethane | 117 | 121 | 3.4% | < 1.0 |
| Tetrachloroethene | 102 | 105 | 2.9% | < 1.0 |
| 1,3-Dichloropropane | 113 | 121 | 6.8% | < 1.0 |
| Dibromochloromethane | 155 | 199 | 24.9% | < 1.0 |
| 1,2-Dibromoethane | 112 | 119 | 6.1% | < 1.0 |
| Chlorobenzene | 99.6 | 104 | 4.3% | < 1.0 |
| 1,1,1,2-Tetrachloroethane | 109 | 114 | 4.5% | < 1.0 |
| Methyl benzene | 101 | 104 | 2.9% | < 1.0 |
| Alkenes, Total | 100 | 106 | 5.8% | < 2.0 |
| Styrene | 19.4 | 22.4 | 14.4% | < 1.0 |
| Bromoform | 198 | 280 | 34.3% | < 2.0 |

TABLE 3
QC Report

Lab # associated with qc samples: W1780 through W1789

| | | | |
|----------------|-----------|-----------|---------|
| | Matrix | Matrix | |
| | Spike | Spike | |
| | Duplicate | Duplicate | Blank |
| | W1787 | W1787 | |
| Date Analyzed: | 1/17/07 | 1/17/07 | 1/17/07 |

| Compound | % Rec | | % Rec | RPD | | ug/L |
|-----------------------------|-------|--|-------|-------|--|-------|
| Dichlorodifluoromethane | 96.8 | | 98.6 | 1.8% | | < 1.0 |
| Chloromethane | 87.2 | | 86.0 | 1.4% | | < 1.0 |
| Vinyl chloride | 91.8 | | 88.8 | 3.3% | | < 1.0 |
| Isopropylbenzene | 95.8 | | 101 | 5.3% | | < 1.0 |
| 1,1,2,2-Tetrachloroethane | 104 | | 123 | 16.7% | | < 2.0 |
| Bromobenzene | 105 | | 109 | 3.7% | | < 1.0 |
| 1,2,3-Trichloropropane | 120 | | 126 | 4.9% | | < 2.0 |
| n-Propylbenzene | 98.2 | | 104 | 5.7% | | < 1.0 |
| 2-Chlorotoluene | 103 | | 108 | 4.7% | | < 1.0 |
| 1,3,5-Trimethylbenzene | 97.0 | | 103 | 6.0% | | < 1.0 |
| 4-Chlorotoluene | 101 | | 109 | 7.6% | | < 1.0 |
| tert-Butylbenzene | 98.0 | | 104 | 5.9% | | < 1.0 |
| 1,2,4-Trimethylbenzene | 101 | | 106 | 4.8% | | < 1.0 |
| sec-Butylbenzene | 101 | | 105 | 3.9% | | < 1.0 |
| 1,3-Dichlorobenzene | 101 | | 109 | 7.6% | | < 1.0 |
| p-Isopropyltoluene | 95.0 | | 98.6 | 3.7% | | < 1.0 |
| 1,4-Dichlorobenzene | 106 | | 108 | 1.9% | | < 1.0 |
| n-Butylbenzene | 96.2 | | 98.8 | 2.7% | | < 1.0 |
| 1,2-Dichlorobenzene | 102 | | 110 | 7.5% | | < 1.0 |
| 1,2-Dibromo-3-chloropropane | 105 | | 127 | 19.0% | | < 2.0 |
| 1,3,5-Trichlorobenzene | 95.2 | | 102 | 6.9% | | < 1.0 |
| 1,2,4-Trichlorobenzene | 96.4 | | 102 | 5.6% | | < 1.0 |
| Hexachlorobutadiene | 100 | | 106 | 5.8% | | < 1.0 |
| Naphthalene | 96.0 | | 103 | 7.0% | | < 3.0 |
| 1,2,3-Trichlorobenzene | 103 | | 107 | 3.8% | | < 1.0 |

Table 4

QC Results 1,4-Dioxane- January

TABLE 4
QC Report

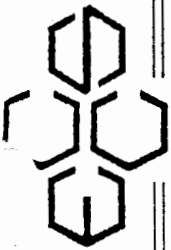
Lab # associated with qc samples: W1780 through W1789

| | | | | |
|-----------------|--------------|------------------------|----------|----------|
| | Matrix Spike | Matrix Spike Duplicate | LCS | Blank |
| | W1757 | W1757 | | |
| Date Extracted: | 01/16/07 | 01/16/07 | 01/16/07 | 01/16/07 |
| Date Analyzed: | 01/17/07 | 01/17/07 | 01/17/07 | 01/17/07 |

| Compound | % Rec | | % Rec | RPD | | % Rec | ug/L |
|-------------|-------|--|-------|-------|--|-------|-------|
| | | | | | | | |
| 1,4-Dioxane | 86.3% | | 98.2% | 12.9% | | 81.0% | < 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. **014275** *
Page 1 of 1

Turn Around (circle one) Normal Rush
Report Due:

| Project Number: | | Mail Report To: | | Invoice To: | | Quote No.: | | Laboratory Number | |
|--|------------|-------------------------------|--------|---------------|----------|--------------------|----------|--------------------------|--|
| Project Name: KUHLMAN ELECTRIC | | Company: MARKING SCALE | | Company: | | | | Number | |
| Project Location: CRYSTAL SPRINGS | | Address: | | Address: | | | | Comments | |
| Sampled By (Print): Chuck Paul | | P.O. No.: | | P.O. No.: | | | | Laboratory Number | |
| Sample Description | Collection | | Matrix | Total Bottles | Preserv* | Analysis Requested | Comments | Laboratory Number | |
| | Date | Time | | | | | | | |
| CSW-WA8-007 | 01/16/07 | 0825 | w | 4 | A | 1,4 Dioxin + PCOB | | W1780 | |
| CSW-WA3-007 | | 0935 | w | 10 | A/B | | | W1781 | |
| CSW-FB-007 | | 0858 | | 4 | A | | | W1782 | |
| CSW-WA1-007 | | 0900 | | 9 | A/B | | | W1783 | |
| CSW-WA2-007 | | 0910 | | 4 | A | | | W1784 | |
| CSW-WA5-003 | | 0935 | | 4 | A | | | W1785 | |
| CSW-WA6-003 | | 0950 | | 4 | A | | | W1786 | |
| CSW-TP-007 | | 1001 | | 4 | A | | | W1787 | |
| DUPLICATE-01 | | | | 9 | A/B | | | W1788 | |
| DUPLICATE-02 | | | | 8 | A/B | | | W1789 | |
| *Preservation Code | | Relinquished By: | | Date/Time: | | Received By: | | Date/Time: | |
| A=None B=HCL C=H2SO4 | | <i>Chuck Paul</i> | | 01/16/07 1030 | | <i>Chuck Paul</i> | | 01/16/07 1030 | |
| 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: | | | | | | Y N | | PINK - SAMPLER/SUBMITTER | |

Appendix B

FEDEX shipping label for Paradigm Labs

1 From Please print and press hard.
Date 01/17/06 Sender's FedEx Account Number
To Chuck Peel Phone (601) 858-2742
Company Peel Consulting
Address 140 Chapel Lane
City Madison State MS ZIP 39110

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

3 To
Recipient's Name _____ Phone (910) 350-1903
Company PARADIGM ANALYTICAL LABS
Address 5500 BUSINESS DR
We cannot deliver to P.O. boxes or P.D. ZIP codes.
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.
 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
 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.
 No Yes As per attached Shipper's Declaration. Yes Shipper's Declaration not required.
 Dry Ice Dry Ice, 3, 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.
 Recipient Third Party Credit Card Cash/Check
FedEx Acct. No. 18114891 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.

519

Appendix C

Chain of Custody Sheets for samples sent to Paradigm Labs



CHAIN OF C TODAY RECORD
SGS Environmental Services Inc.

Locations Nationwide
 • Alaska
 • Louisiana
 • New Jersey
 • West Virginia
 • Hawaii
 • Maryland
 • North Carolina
 • West Virginia
 www.us.sgs.com
065628

1 CLIENT: **MARTIN + SCLIFF** PHONE NO: ()
 CONTACT: **ROBERT MARTIN** PHONE NO: ()
 PROJECT: **KUHLMAN ELECTRIC SITE/PSID#:**
 REPORTS TO: **SAME** E-MAIL:
 INVOICE TO: **SAME** FAX NO: ()
 QUOTE #
 P.O. NUMBER

2

| LAB NO. | SAMPLE IDENTIFICATION | DATE | TIME | MATRIX |
|---------|-----------------------|----------|------|--------|
| | CSW-WA 3-007 | 01/16/07 | 0835 | W |
| | CSW-WA 1-007 | 01/16/07 | 0900 | W |
| | DUPLICATE - 01 | 01/16/07 | --- | W |
| | DUPLICATE - 02 | 01/16/07 | --- | W |
| | TRU' BLANK | --- | --- | W |

3

| NO | SAMPLE TYPE | Preservatives Used | HCL | Time | ANALYSIS REQUIRED | REMARKS |
|----|-------------|--------------------|-----|------------|-------------------|-------------|
| 6 | C= COMP | X | X | 1/4 BOTTLE | 2700 | Mobil LAB # |
| 5 | G= GRAB | X | X | | | W1781 |
| 5 | | X | X | | | W1783 |
| 4 | | X | X | | | W1788 |
| 2 | | X | X | | | W1789 |

4

Shipping Carrier: _____
 Shipping Ticket No: _____
 Samples Received Cold? (Circle) YES NO
 Temperature (C): _____
 Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
 Special Deliverable Requirements:
 Requested Turnaround Time and Special Instructions:

5

| Collected/Relinquished By: (1) | Date | Time | Received By: |
|--------------------------------|---------|------|--------------|
| <i>Robert Martin</i> | 1/16/07 | 1700 | |
| Relinquished By: (2) | Date | Time | Received By: |
| Relinquished By: (3) | Date | Time | Received By: |
| Relinquished By: (4) | Date | Time | Received By: |