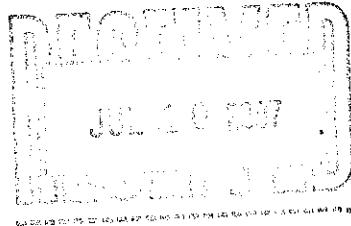


July 4, 2007

Robert Martin
Martin & Slagle, LLC
P.O. Box 1023
Black Mountain, NC 28711



Dear Mr. Martin,

Enclosed is the Technical Memorandum for work completed at the Kuhlman Electric Corporation (KEC) facility in Crystal Springs, Mississippi during the month of January. If you have any questions concerning this information, please give me a call.

Sincerely,

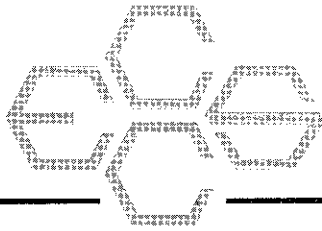
Kari Ann Bellian
for Richard Johnson

Enclosure

Technical Memorandum

Kuhlman Electric Corporation (KEC)

Crystal Springs, Mississippi



TECHNICAL MEMORANDUM

July 4, 2007

To: Robert Martin
Martin Slagle Inc.

From: Richard Johnson *for*
ECCS, Inc.

Re: Field Analytical Methods – QC Summary
Kuhlman Electric Corporation (KEC) Facility
Crystal Springs, Mississippi

INTRODUCTION

This Technical Memorandum provides documentation of the field analytical test methods used to analyze soil and water samples collected from MS1 Property area during January 2007 during an accelerated site investigation episode around the Kuhlman Electric Corporation (KEC) facility in Crystal Springs, Mississippi. Soil and water samples were analyzed for polychlorinated biphenyls (PCBs) and chlorinated benzenes by gas chromatography (GC) in accordance with ECCS's Polychlorinated Biphenyl (PCB) Mini Extraction Screening Procedure. A summary of test results is provided in Table 1 for soils and Table 2 for waters. A summary of method blanks, laboratory control samples and matrix spike/matrix spike duplicate data is provided in Table 3 for the soils and Table 4 for the waters.

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 mobile lab PCB analysis for Excavation samples
- B) FEDEX shipping label for Paradigm Labs
- C) Chain of custody sheets for samples sent to Paradigm Labs

The PCB mini-extraction procedure is based on the existing EPA SW846 methods 8082/8141. The procedure incorporates all the quality control rigors of the full 8082/8141 methods including quantification based on 6-point calibration with continuing calibration verification, surrogate method performance monitoring, method blanks, laboratory control samples (LCS), and matrix spike/matrix spike (MS/MSD) duplicate samples. As such, you should consider these test results as comparable to what you would get from a fixed-based laboratory using the more-widely accepted extraction procedure.

Environmental Chemistry Consulting Services, Inc.

The primary project objective of the sampling and testing episode was to delineate the PCB contamination at and around the site using the accelerated site characterization approach. The mobile laboratory was required to provide data as quickly as possible to keep the accelerated site investigation process on track while trying to maintain a goal of level three data quality.

CASE NARRATIVE

During the episode, all samples collected were analyzed. To maintain rapid turnaround and to meet the project objective, three GCs were operated on a nearly continuous basis.

Quality control including proper calibration, continuing calibration verification, surrogates, method blanks, laboratory control samples and matrix spike/matrix spike duplicate samples was performed at the method-specified intervals. Overall quality of the data is very good. The following quality related issues should be noted:

1. All surrogate recoveries were within acceptable ranges.
2. All LCS recoveries were within acceptable ranges. See Table 3 and 4.
3. All MS/MSD recoveries were within acceptable ranges. Percent repeatability was also within acceptable ranges. See Table 3 and 4.
4. Since electron capture of detectors tend to have a very narrow linear range, many sample extracts required dilution. Dilutions were accurately done.

METHOD SUMMARY

This method employs a mini-extraction procedure and gas chromatography analysis for the detection of PCBs and chlorinated benzenes. Reporting limits are provided in the results Tables. Four grams of sample are dried with anhydrous sodium sulfate and extracted with eight mLs of 80/20 iso-octane/acetone. The extract is then analyzed by Gas Chromatography-Electron Capture Detector (GC-ECD).

Procedure

1. **Standards Preparation** - Primary standards are prepared from a solution purchased from various vendors at Certified concentrations. Stock standards are prepared in suitable solvents and stored in a freezer when not in use. Secondary standards are prepared in 80/20 iso-octane/acetone and stored in a freezer when not in use. Standard curve mixes for this project was prepared at six concentrations: PCBs – 0.05, 0.10, 0.20, 0.50, 1.0 and 2.0 ug/m; chlorinated benzenes – 0.005, 0.01, 0.02, 0.05, 0.10 and 0.20 ug/ml.
2. **Sample Preparation - SOILS**: Each sample or quality control sample is prepared in identical fashion. Approximately four grams of silica sand (blanks and control spikes) or sample is transferred into a clean scintillation vial. Ten grams of anhydrous sodium sulfate are added to the vial and mixed well. Extra sodium sulfate is added when necessary to assure the sample is dried. A surrogate, spike compound mix (if necessary) and eight mLs of 80/20 iso-octane/acetone are added to the vial. The vial is shaken for 30 seconds, allowed to settle for 2 minutes, shaken again for 30 seconds, and allowed to settle for 10 minutes. An aliquot of the extract is transferred to an autosampler vial for injection into the GC-ECD.
3. **WATER Samples**: 200 grams of water was weighed into a clean jar containing 50 grams of sodium chloride. The samples were spiked with a surrogate in addition the LCS/MS/MSD were spiked with PCB's and chlorinated benzenes. Added 10 ml of isooctane to each and shake 3 times for 2 minutes each time. Samples were allowed to settle for approximately 5 minutes between each shake. Isooctane was decanted into a scintillation vial and then an aliquot was transferred to an autosampler vial. Then extracts were injected into a GC-ECD.
4. **GC-ECD Analysis** - A sample aliquot is injected into an HP5890 GC with an ECD equipped with an HP ChemStation for data processing. PCBs were identified by matching retention times of standards to the same retention time in the sample. Regression analysis was performed on each of the selected peak's height verses concentration of the standard using a LN/LN transformed linear regression. For PCBs nine peaks were selected for quantification. The ug/mL value for each peak was added together and divided by the number of peaks selected to obtain the total PCB ug/mL result. If interference occurred at any of the peaks, these peaks were not included in the total, and the divisor was reduced accordingly.
5. **Quality Control** - Quality control consisted of the following items:
 - Continuing calibration standards analyzed every ten samples or less and at the end of a run.
 - Blank and LCS samples analyzed every twenty sample or less with a minimum of one per day.
 - MS/MSD samples analyzed every twenty samples or less with a minimum of one per day.
 - Information is documented in logbook 150 and January run sheets.
6. **Instrument Conditions** - Two HP5890 gas chromatographs were equipped with RTX-35 capillary columns. Each system had a Leap Technologies A200S auto-sampler and an HP ChemStation for data handling.

Table 1

Soil Sample Results – January

Table 1
Kuhlman Electric
Crystal Springs, Mississippi
PCB Concentrations as Aroclor 1260 Detected

Field Laboratory									
Field Lab Sample ID	Sample ID	Sample Depth	Date Collected	Time Collected	Date Analyzed	Concentration (mg/kg)	Surrogate TCMX(%)	Surrogate DCBP(%)	Rinsed
LL001	MS1-EFS-001-001	-	30-Jan-07	10:55	30-Jan-07	85	102	100	
LL002	MS1-EFS-002-001	-	30-Jan-07	11:00	30-Jan-07	< 0.10	97.1	102	
LL003	MS1-ESS-001	-	30-Jan-07	11:02	30-Jan-07	0.18	95.7	106	
LL004	MS1-ESS-002	-	30-Jan-07	11:04	30-Jan-07	0.11	97.1	99.2	
LL005	MS1-Duplicate	-	30-Jan-07	-	30-Jan-07	110	95.4	108	
LL006	MS1-EFS-003-001	-	30-Jan-07	12:00	30-Jan-07	< 0.10	104	84.5	
LL007	MS1-ESS-003	-	30-Jan-07	12:03	30-Jan-07	< 0.10	96.5	100	
LL008	MS1-EFS-001-002	-	30-Jan-07	13:40	30-Jan-07	< 0.10	99.0	108	
LL009	MS1-EFS-004-001	-	30-Jan-07	16:40	30-Jan-07	< 0.10	108	101	
LL010	MS1-ESS-004	-	30-Jan-07	16:43	30-Jan-07	< 0.10	92.8	88.0	
LL011	MS1-EFS-005-001	-	30-Jan-07	16:48	30-Jan-07	< 0.10	96.4	95.7	
LL012	MS1-EFS-006-001	-	31-Jan-07	10:50	31-Jan-07	< 0.10	106	104	
LL013	MS1-Duplicate	-	31-Jan-07	-	31-Jan-07	< 0.10	90.5	96.6	
LL014	MS1-ESS-005	-	31-Jan-07	13:45	31-Jan-07	< 0.10	114	108	
LL015	MS1-EFS-007-001	-	31-Jan-07	13:50	31-Jan-07	0.29	107	112	
LL016	MS1-EFS-008-001	-	31-Jan-07	15:00	31-Jan-07	< 0.10	119	110	

NOTES:

A = Acid Treated.

Surrogate recovery criteria 60-140% unless sample is acid treated.

Surrogate recovery criteria 75-175% if sample is acid treated.

Table 2

Water Sample Results – January

Table 2
Kuhlman Electric
Crystal Springs, Mississippi
PCB Concentrations as Aroclor 1260 Detected

					Field Laboratory			
Field Lab Sample ID	Sample ID	Sample Depth	Date Collected	Time Collected	Date Analyzed	Concentration (ug/L)	Surrogate TCMX(%)	Surrogate DCBP(%)
W1801	MS1-FB-001	-	30-Jan-07	10:10	1-Feb-07	< 0.25	118	96.9

Table 3

Soil QC Samples - January

Table 3
QC Results

Lab # associated with qc samples: LL001 through LL011

Matrix	Matrix		
Spike	Duplicate	Blank	LCS
LL002	LL002	1119	1119

Date Analyzed:	1/30/07	1/30/07	1/30/07	1/30/07
----------------	---------	---------	---------	---------

Compound	% Rec		% Rec		% RPD	mg/kg	% Rec
PCB as 1260	102		103		-1%	< 0.10	92.8

Table 3
QC Results

Lab # associated with qc samples: LL012 through LL016

	Matrix	Matrix		
	Spike	Spike	Blank	LCS
	LL012	Duplicate	1120	1120
		LL012		

Date Analyzed:	1/31/07	1/31/07	1/31/07	1/31/07
----------------	---------	---------	---------	---------

Compound	% Rec		% Rec		% RPD	mg/kg	% Rec
PCB as 1260	105		99.4		5%	< 0.10	106

Table 4

Water QC Samples - January

Table 4
QC Results

Lab # associated with qc samples: W1801

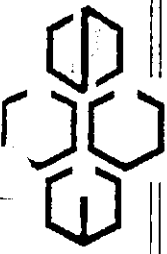
	Matrix	Matrix		
	Spike	Spike	Blank	LCS
	W1801	Duplicate		
		W1801		

Date Analyzed:	2/1/07	2/1/07	2/1/07	2/1/07
----------------	--------	--------	--------	--------

Compound	% Rec		% Rec		% RPD	ug/L	% Rec
PCB as 1260	104		110		-6%	< 0.25	103

Appendix A

Chain of Custody Sheets for mobile lab PCB analysis Samples



**Environmental Chemistry
Consulting Services, Inc.**

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

CHAIN OF CUSTODY

No. **014288** *
Page **1** of **1**

Turn Around (circle one) Normal Rush
Report Due:

Project Number: _____
 Project Name: **KULHMAN ELECTRIC**
 Project Location: **CRYSTAL SPRINGS**
 Sampled By (Print): **Chuck Paul**

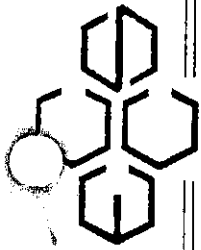
Mail Report To:
 Company: **MARTIN & SLAGLE**
 Address: _____

P.O. No.: _____ Quote No.: _____

Sample Description	Collection		Matrix	Total Bottles	Preserv*	Analysis Requested	Comments	Laboratory Number
	Date	Time						
MS1-EFS-001-001	01/30/07	1055	S	1	NA	PCBS		LL001
MS1-EFS-002-001		1100						LL002
MS1-ESS-001		1102						LL003
MS1-ESS-002		1104						LL004
Duplicate		-						LL005
MS1-EFS-003-001		1200						LL006
MS1-ESS-003		1203						LL007
MS1-EFS-001-002		1340						LL008
MS1-EFS-004-001		1640						LL009
MS1-ESS-004		1643						LL010
MS1-EFS-005-001		1648						LL011

Relinquished By: *[Signature]* Date/Time: **1/30/07 1700**
 Received By: *[Signature]* Date/Time: **01/30/07 1700**

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



**Environmental Chemistry
Consulting Services, Inc.**

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

CHAIN OF CUSTODY
1/5 Brent

No. **014290** *
Page **1** of **1**

Turn Around (circle one) Normal Rush
Report Due:

Project Number: _____
 Project Name: **KUTHEMAN ELECTRIC**
 Project Location: **CRYSTAL SPRINGS**
 Sampled By (Print): **Chuck Reed**
 Mail Report To:
 Company: **MARTIN + SLAGLE**
 Address: _____

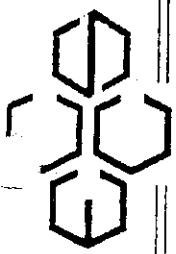
Sample Description	Collection		Matrix	Total Bottles	Preserv*	Analysis Requested	Laboratory Number
	Date	Time					
MSI-EFS-006-001	01/31/07	1050	S	1	NA	PEBS	LL012
DUPLICATE							LL013
MSI-ESS-005		1345					LL014
MSI-EFS-007-001		1350					LL015
MSI-EFS-008-001		1500					LL016

Quote No.: _____
 P.O. No.: _____
 Received By: _____
 Date/Time: **01/31/07 1530**

Relinquished By: **Chuck O.M. Reed**
 Date/Time: **1/31/07 1530**
 Received By: _____
 Date/Time: _____

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

Custody Seal: Present/Absent
 Shipped Via: _____



Environmental Chemistry
Consulting Services, Inc.

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

CHAIN OF CUSTODY
Brent St.
MISC

No. 014287 *
Page 1 of 1

Turn Around (circle one) Normal Rush

Project Number: _____

Project Name: KUHLMAN ELECTRICAL

Project Location: CRYSTAL SPRINGS

Sampled By (Print): Chuck Paul

Mail Report To: _____

Company: MARTIN + SLAGLE

Address: _____

Sample Description	Collection		Matrix	Total Bottles	Preserv*	Analysis Requested	Comments	Laboratory Number
	Date	Time						
MSL-RS-100	01/30/07	0945	W	1	NA	PCK	Riarate 1	W1799
MSL-RS-101	01/30/07	0946	W	1	NA	PCK	Riarate 2	W1800
MSL-FB-001	01/30/07	1010	W	1	NA	PCK		W1801
*Preservation Code A=None B=HCL C=H2SO4 D=HNO3 E=EnCore F=Methanol G=NaOH O=Other(Indicate)	Relinquished By: <u>Chuck Paul</u>		Date/Time: <u>1/30/07 1030</u>	Received By: <u>[Signature]</u>	Date/Time: <u>01/30/07 1030</u>			
	Relinquished By:		Date/Time:	Received By:	Date/Time:			
Custody Seal: Present/Absent		Intact/Not Intact	Seal #'s	Temp Blank	Y N			
Shipped Via:								

Appendix B

FEDEX shipping label for Paradigm Labs

1 From Please print and press hard. Sender's FedEx Account Number
 Date 02/01/07
 To Chuck Peel Phone (601) 598-2792
 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.
 OPTIONAL

3 To Recipient's Name
 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.
 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.**
 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.**
 FedEx 1Day Freight* Next business day.** FedEx 2Day Freight Second business day.** FedEx 3Day Freight Third business day.**
 * Call for Confirmation. Declared value limit \$500.

5 Packaging
 FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other
* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.

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?
 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. Recipient Third Party Credit Card Cash/Check
 FedEx Acct. 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. **519**

Appendix C

Chain of Custody Sheets for samples sent to Paradigm Labs



CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

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

www.us.sgs.com
065633

1 CLIENT: <u>MARTIN & SULLIVAN</u> PHONE NO: () CONTACT: <u>ROBERT MARTIN</u> SITERWSID#: () PROJECT: <u>KULLMAN ELECTRIC</u> REPORTS TO: <u>SAME</u> E-MAIL: () INVOICE TO: <u>SAME</u> FAX NO: () QUOTE #: () P.O. NUMBER: ()		SGS Reference: No. <u>CONTAINERS</u> SAMPLE TYPE: <u>C- COMP</u> G- GRAB		PAGE <u>1</u> OF <u>1</u>	
2 LAB NO. SAMPLE IDENTIFICATION DATE TIME MATRIX <u>MS1-EFS-001-001</u> <u>01/30/07</u> <u>1055</u> <u>S</u> <u>Duplicate</u> <u>01/30/07</u> <u>-</u> <u>S</u> <u>MS1-EFS-005-001</u> <u>01/30/07</u> <u>1648</u> <u>S</u> <u>MS1-EFS-006-001</u> <u>01/31/07</u> <u>1050</u> <u>S</u> <u>Duplicate</u> <u>01/31/07</u> <u>-</u> <u>S</u>		Preservatives Used: <u>MA</u> Analysis Required: <u>3</u> <u>MS1-EFS-001-001</u> X <u>Duplicate</u> X <u>MS1-EFS-005-001</u> X <u>MS1-EFS-006-001</u> X <u>Duplicate</u> X		REMARKS: <u>MOBILE LAB</u> <u>LL001</u> <u>LL005</u> <u>LL011</u> <u>LL012</u> <u>LL013</u>	
5 Collected/Relinquished By: (1) <u>[Signature]</u> Date <u>2/1/07</u> Time <u>1400</u> Relinquished By: (2) _____ Date _____ Time _____ Relinquished By: (3) _____ Date _____ Time _____ Relinquished By: (4) _____ Date _____ Time _____		Shipping Carrier: _____ Shipping Ticket No.: _____ Special Deliverable Requirements: _____ Requested Turnaround Time and Special Instructions: _____		Samples Received Cold? (Circle) YES NO Temperature, C: _____ Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT	