




July 17, 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 March. If you have any questions concerning this information, please give me a call.

Sincerely,


for Richard Johnson
Enclosure

Technical Memorandum

Kuhlman Electric Corporation (KEC)

Crystal Springs, Mississippi



TECHNICAL MEMORANDUM

July 17, 2007

To: Robert Martin
Martin Slagle Inc.

From: Richard Johnson *RJ*
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 March 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.

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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 March 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 – March

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
LL082	MS1-EFS-044-001	-	2-Mar-07	10:30	2-Mar-07	< 0.10	106	108	
LL083	MS1-Duplicate	-	2-Mar-07	-	2-Mar-07	0.27	104	109	
LL084	MS1-EFS-045-001	-	2-Mar-07	12:10	2-Mar-07	< 0.10	109	109	
LL085	MS1-EFS-046-001	-	5-Mar-07	12:05	5-Mar-07	< 0.10	91.2	89.4	
LL086	MS1-Duplicate	-	5-Mar-07	-	5-Mar-07	< 0.10	88.8	91.3	
LL087	MS1-EFS-047-001	-	5-Mar-07	13:10	5-Mar-07	< 0.10	89.2	92.2	
LL088	MS1-ESS-020	-	27-Mar-07	11:53	27-Mar-07	< 0.10	98.7	83.0	
LL089	MS1-Duplicate	-	27-Mar-07	-	27-Mar-07	< 0.10	93.6	92.0	

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 – March

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(%)
W1829	MS1-FB-006	-	5-Mar-07	09:00	7-Mar-07	< 0.25	94.1	93.4
W1854	MS1-FB-007	-	27-Mar-07	08:30	29-Mar-07	< 0.25	90.7	90.8

Table 3

Soil QC Samples - March

Table 3
QC Results

Lab # associated with qc samples: LL082 through LL084

Matrix Spike	Matrix Spike Duplicate	Blank	LCS
LL082	LL082	1146	1146

Date Analyzed:	3/2/07	3/2/07	3/2/07	3/2/07
----------------	--------	--------	--------	--------

Compound	% Rec		% Rec		% RPD	mg/kg	% Rec
PCB as 1260	109		120		-10%	< 0.10	109

Table 3
QC Results

Lab # associated with qc samples: LL085 through LL087

	Matrix	Matrix		
	Spike	Spike		
	Duplicate	Duplicate	Blank	LCS
	R4260	R4260	1148	1148

Date Analyzed:	3/5/07	3/5/07	3/5/07	3/5/07
----------------	--------	--------	--------	--------

Compound	% Rec		% Rec		% RPD	mg/kg	% Rec
PCB as 1260	128		125		2%	< 0.10	101

Table 3
QC Results

Lab # associated with qc samples: LL088 through LL089

	Matrix	Matrix		
	Spike	Spike		
	Duplicate	Duplicate	Blank	LCS
	LL088	LL088	1166	1166

Date Analyzed:	3/27/07	3/27/07	3/27/07	3/27/07
----------------	---------	---------	---------	---------

Compound	% Rec		% Rec		% RPD	mg/kg	% Rec
PCB as 1260	112		108		4%	< 0.10	115

Table 4

Water QC Samples - March

Table 4
QC Results

Lab # associated with qc samples: W1829

	Matrix	Matrix		
	Spike	Spike	Blank	LCS
	W1827	Duplicate		
		W1827		

Date Analyzed:	3/7/07	3/7/07	3/7/07	3/7/07
----------------	--------	--------	--------	--------

Compound	% Rec		% Rec		% RPD	ug/L	% Rec
PCB as 1260	110		104		6%	< 0.25	99.9

Table 4
QC Results

Lab # associated with qc samples: W1854

	Matrix	Matrix		
	Spike	Spike	Blank	LCS
	W1854	Duplicate		
		W1854		

Date Analyzed:	3/29/07	3/29/07	3/29/07	3/29/07
----------------	---------	---------	---------	---------

Compound	% Rec		% Rec		% RPD	ug/L	% Rec
PCB as 1260	102		106		-4%	< 0.25	107

Appendix A

Chain of Custody Sheets for mobile lab PCB analysis Samples



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CHAIN OF CUSTODY

No. **012571**

Page **1** of **1**

Turn Around (circle one) Normal Rush

Report Due:

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

Mail Report To:
 Company: **MARTIN + SCAGLE**
 Address: _____
 P.O. No.: _____ Quote No.: _____

Sample Description	Collection		Matrix	Total Bottles	Preserv*	Analysis Requested	Comments	Laboratory Number
	Date	Time						
M51-EFS-044-001	03/02/07	1030	S	1	NA	PKJ		11082
Duplicate	↓	—	↓	↓	↓	↓		11083
M51-EFS-045-001	↓	1210	↓	↓	↓	↓		11084

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

Relinquished By: **Chuck Reed** Date/Time: **3/2/07 1300**
 Relinquished By: _____ Date/Time: _____

Received By: **Samuel** Date/Time: **3/2/07 1200**
 Received By: _____ Date/Time: _____

Receipt Temp: _____
 Temp Blank Y N

Custody Seal: Present/Absent Intact/Not Intact Seal #s _____
 Shipped Via _____



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CHAIN OF CUSTODY

No. 012572
Page 1 of 1

Turn Around (circle one) Normal Rush

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

Mail Report To:
 Company: MARTIN + STACCE
 Address: _____

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

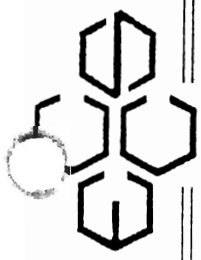
Sample Description	Collection		Matrix	Total Bottles	Preserv*	Analysis Requested	Comments	Laboratory Number																																																																																										
	Date	Time																																																																																																
MS1-EFS-046-001	05ML	1205	S	1	NA	PCB		LL085																																																																																										
↓ DUP4A7E			↓	↓	↓	↓		LL086																																																																																										
↓ EFS-047-001		1310	↓	↓	↓	↓		LL087																																																																																										
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*Preservation Code: A=None B=HCL C=H2SO4 D=HNO3 E=EnCore F=Methanol G=NaOH O=Other(Indicate)

Relinquished By: Chuck Paul Date/Time: 3/5/07 1330
 Relinquished By: _____ Date/Time: _____

Received By: R. Johnson Date/Time: 05/17/07
 Received By: _____ Date/Time: 1330

Custody Seal: Present/Absent _____
 Shipped Via: _____
 Receipt Temp: _____
 Temp Blank: Y N



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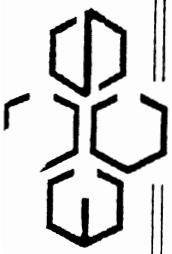
2525 Advance Road
Madison, WI 53718
Phone 608-221-8700 FAX 608-221-4889

CHAIN OF CUSTODY

No. 012595
Page 1 of 1

Turn Around (circle one) Normal Rush
Report Due:

Project Number:		Mail Report To:		P.O. No.:		Quote No.:	
Project Name: KULLMAN ELECTRIC		Company: MARTIN & SAGGE		Analysis Requested:		Laboratory Number:	
Project Location: CRYSTAL SPRINGS, WI		Address:		Total Bottles:		Comments:	
Sampled By (Print): CHUCK PEEL		Matrix:		Preserv*:		Date/Time:	
Sample Description		Collection Date		Time		Date/Time:	
MST-ESS-020	3/27/07	1153	S	1	WA	PCB ₂	3/27/07
Duplicate	3/27/07	---	S	1	NA	PCB	12/15
*Preservation Code		Relinquished By:		Relinquished By:		Received By:	
A=None B=HCL C=H2SO4	Chuck Peel		Chuck Peel		Chuck Peel		3/27/07
D=HNO3 E=EnCore F=Methanol	Intact/Not Intact		Seal #s		Temp Blank		Y N
G=NaOH O=Other(Indicate)	Shipped Via:		Receipt Temp:		Date/Time:		12/15



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Madison, WI 53718
Phone 608-221-8700 FAX 608-221-4889

CHAIN OF CUSTODY
MISC

No. 012574 *
Page 1 of 1

Turn Around (circle one) Normal Rush

Report Due:

Project Number:	Collection			Total Bottles	Preserv*	Analysis Requested	Comments	Laboratory Number
	Date	Time	Matrix					
MSL-RS-110	05/15/07	0830	H2O	1	WA	PCB ²	RINSE #1	W1827
MSL-RS-111	↓	0832	↓	↓	↓	↓	↓ #2	W1828
MSI-FB-006	↓	0900	↓	↓	↓	↓	↓	W1829
<div style="display: flex; justify-content: space-between;"> <div>Project Name: KUHMAN ELECTRIC Project Location: CRYSTAL SPRINGS Sampled By (Print): <i>Chuck Paul</i></div> <div>Mail Report To: Company: MARTIN + SLAGLE Address:</div> </div>								
<div style="display: flex; justify-content: space-between;"> <div>Project Number: Company: Address: P.O. No.:</div> <div>Quote No.:</div> </div>								
*Preservation Code	Relinquished By:				Received By:			
A=None B=HCL C=H2SO4 D=HNO3 E=EnCore F=Methanol G=NaOH O=Other(Indicate)	<i>Charles O.M. Fee</i>				<i>R. Johnson</i>			
Custody Seal: Present/Absent	Intact/Not Intact		Seal #s		Date/Time: 5/15/07 0915		Date/Time: 05/15/07 0915	



Environmental Chemistry Consulting Services, Inc.

Madison, WI 53718
Phone 608-221-8700
FAX 608-221-4889

CHAIN OF CUSTODY

No. **012625**

Page 1 of 1

Turn Around (circle one) Normal Rush

Project Number: _____
 Invoice To: _____
 Company: _____
 Address: _____
 P.O. No.: _____ Quote No.: _____

Mail Report To: _____
 Company: **MAARTIN + STACEE**
 Address: _____

Sample Description	Collection		Matrix	Total Bottles	Preserv*	Analysis Requested	Comments	Laboratory Number
	Date	Time						
MSI-FB-007	3/27/07	0830	W	1	NA	Peds		W1854

Received By: *[Signature]* Date/Time: 3/27/07
 Received By: _____ Date/Time: 0900

Relinquished By: *[Signature]*
 Relinquished By: _____

Intact/Not Intact: _____ Seal #'s: _____

*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: _____

Temp Blank Y N

Appendix B

FEDEX shipping label for Paradigm Labs

TO Please print and press hard.
 to 3/2/07 Sender's FedEx Account Number
 Order name: Chuck Peel Phone (601) 898-2792
 Company: Peel Consulting
 Address: 140 Chapel Lane
 Madison MS ZIP 39110

Our Internal Billing Reference
 24 characters will appear on invoice. 0318539504

Shipper's name: PARADIGM ANALYTICAL LABS
 Phone (910) 350-1903

Company: PARADIGM ANALYTICAL LABS

Shipper's address: 5500 BUSINESS DR
 Cannot deliver to P.O. boxes or P.O. ZIP codes.

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

Address: WILMINGTON 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: _____
 ** Declared value limit \$500.

5 Packaging
 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, 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
 Credit Card No.

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

TO Please print and press hard.
 to 08MRO7 Sender's FedEx Account Number
 Order name: Chuck Peel Phone (601) 898-2792
 Company: Peel Consulting
 Address: 140 Chapel Lane
 Madison MS ZIP 39110

Our Internal Billing Reference
 24 characters will appear on invoice. 0318539504

Shipper's name: PARADIGM ANALYTICAL LABS
 Phone (910) 350-1903

Company: PARADIGM ANALYTICAL LABS

Shipper's address: 5500 BUSINESS DR
 Cannot deliver to P.O. boxes or P.O. ZIP codes.

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

Address: WILMINGTON 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: _____
 ** Declared value limit \$500.

5 Packaging
 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, 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
 Credit Card No.

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

1 From Please print and press hard.
Date: 3/30/07 Sender's FedEx Account Number
Sender's Name: CHUCK PEEL Phone: (601) 898 2792
Company: PEEL CONSULTING
Address: 140 CHAPEL LAKE Dept./Floor/Suite/Room
City: MADISON State: MS ZIP: 39110

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 Dept./Floor/Suite/Room
Address: WILMINGTON State: NC ZIP: 28405-8446
0347431747

4a Express Package Service Packages up to 150 lbs.
 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.
* To most locations. FedEx Envelope rate not available. Minimum charge: One-pound rate.

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 Other Tube
* 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.
 No Yes As per attached Shipper's Declaration. Yes Shipper's Declaration not required. Dry Ice Dry ice, 5, 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. Recipient Third Party Credit Card Cash/Check
FedEx Acct. 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.
519



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

065645

1 CLIENT: MARTIN & SCAFF PHONE NO: ()
 CONTACT: ROBERT MARTIN
 PROJECT: KUHLMAN ELECTRIC SITE/PWSID#:
 REPORTS TO: SAUE E-MAIL:
 INVOICE TO: SAUE FAX NO: ()
 QUOTE #
 P.O. NUMBER

SGS Reference:

No	CONTAINERS	SAMPLE TYPE	C= COMP G= GRAB	Preservatives Used	Analysis Required	NA	REMARKS
	1	S		X			MOBILE LAB #
	1	S		X			LL062
	1	S		X			LL068
	1	S		X			LL072
	1	S		X			LL074
	1	S		X			LL076
	1	S		X			LL077
	1	S		X			LL078
	1	S		X			LL082
	1	S		X			LL083

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	4
	MSI-EFS-032-001	02/26/07	1248	S	
	Duplicate	02/26/07		S	
	MSI-EFS-037-001	02/26/07	1505	S	
	MSI-EFS-038-001	02/27/07	1630	S	
	Duplicate	02/27/07		S	
	MSI-EFS-040-001	02/28/07	1100	S	
	Duplicate	02/28/07		S	
	MSI-EFS-044-001	03/02/07	1030	S	
	Duplicate	03/02/07		S	

5 Collected/Relinquished By: (1) [Signature] Received By: _____
 Date 3/2/07 Time 1400
 Relinquished By: (2) _____ Received By: _____
 Date _____ Time _____
 Relinquished By: (3) _____ Received By: _____
 Date _____ Time _____
 Relinquished By: (4) _____ Received By: _____
 Date _____ Time _____

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



CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

Locations Nationwide
 • Alaska
 • Louisiana
 • New Jersey
 • West Virginia
 • Hawaii
 • Maryland
 • North Carolina
 • West Virginia
 www.us.sgs.com
065645

1 CLIENT: MARTIN & SCALIC PHONE NO: ()
 CONTACT: ROBERT MARTIN
 PROJECT: KUHLMAN ELECTRIC SITE/PWSID#:
 REPORTS TO: E-MAIL:
 INVOICE TO: FAX NO: ()
 QUOTE #
 P.O. NUMBER

2

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX
	MSI-EFS-032-001	02/26/07	1248	S
	Duplicate	02/26/07	—	S
	MSI-EFS-037-001	02/26/07	1505	S
	MSI-EFS-038-001	02/27/07	1630	S
	Duplicate	02/27/07	—	S
	MSI-EFS-040-001	02/28/07	1100	S
	Duplicate	02/28/07	—	S
	MSI-EFS-044-001	03/02/07	1030	S
	Duplicate	03/02/07	—	S

3

SGS Reference:	No CONTAINERS	SAMPLE TYPE	Preservatives Used	Analyses Required	REMARKS
	1		NA	3	MOBIL LAB #
	1				LL062
	1				LL068
	1				LL072
	1				LL074
	1				LL076
	1				LL077
	1				LL078
	1				LL082
	1				LL083

4

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

5

Collected/Relinquished By: (1)	Date	Time	Received By:	Time
<u> </u>	3/2/07	1410		
Relinquished By: (2)	Date	Time	Received By:	Time
Relinquished By: (3)	Date	Time	Received By:	Time
Relinquished By: (4)	Date	Time	Received By:	Time



CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

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

www.us.sgs.com 054083

1 CLIENT: MARTIN SCAGLE PHONE NO.: ()
 CONTACT: ROBERT MARTIN
 PROJECT: KUHLMAN ELECTRIC #E/P/WSID#:
 REPORTS TO:
 INVOICE TO:
 QUOTE #
 P.O. NUMBER

SGS Reference: PAGE 1 OF 1

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE C= COMP G= GRAB	Preservatives Used Analysis Required	REMARKS
	<u>MS1-ESS-020</u>	<u>3/27/07</u>	<u>1153</u>	<u>S</u>	<u>1</u>		<u>NA</u>	
	<u>DUPLICATE</u>	<u>3/27/07</u>	<u>-</u>	<u>S</u>	<u>1</u>		<u>3</u>	<u>MOBILE LAB #</u>
								<u>LL088</u>
								<u>LL089</u>

2

Collected/Relinquished By:(1)	Date	Time	Received By:
<u>[Signature]</u>	<u>3/26/07</u>	<u>1400</u>	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

4

Shipping Carrier:
 Shipping Ticket No:
 Special Deliverable Requirements:
 Requested Turnaround Time and Special Instructions:

Samples Received Cold? (Circle) YES NO
 Temperature (C):
 Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT