ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004 FAX: 618-344-1005

May 29, 2008

Derek Ingram Philip Environmental 210 West Sand Bank Road Columbia, IL 62236-0230 TEL: (618) 281-7173 FAX: (618) 281-5120



NELAP Accredited #100226

RE: A831-735002-012901-225/IP Champaign 62403053

WorkOrder: 08050896

Dear Derek Ingram:

TEKLAB, INC received 4 samples on 5/23/2008 11:44:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Hoadhing A. White

Heather A. White Project Manager (618)344-1004 ex.20



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SAMPLE SUMMARY

Client: Philip Environmental S/ Project: A831-735002-012901-225/IP Champaign 62403053 Lab Order: 08050896 Report Date: 29-May-08

Lab Sample ID	Client Sample ID	Fractions	Collection Date
08050896-001	B-845 2.0-4.0 ft	1	5/6/2008 2:35:00 PM
08050896-002	B-845 0.0-2.0 ft	1	5/6/2008 2:40:00 PM
08050896-003	B-851 19.0-20.0 ft	1	5/9/2008 10:20:00 AM
08050896-004	B-851 14.0-16.0 ft	1	5/9/2008 10:15:00 AM



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Client: Philip Environmental **CASE NARRATIVE** Project: A831-735002-012901-225/IP Champaign 62403053 LabOrder: 08050896 Report Date: 29-May-08

Cooler Receipt Temp: 23.4 °C

State accreditations:

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

	Qualifiers						
DF - Dilution Factor	${\bf B}$ - Analyte detected in the associated Method Blank	C - Client requested RL below					
RL - Reporting Limit	\mathbf{J} - Analyte detected below reporting limits	D - Diluted out of sample					
ND - Not Detected at the Reporting Limit	${f R}$ - RPD outside accepted recovery limits	\mathbf{E} - Value above quantitation range					
Surr - Surrogate Standard added by lab	${\bf S}~$ - Spike Recovery outside accepted recovery limits	\mathbf{H} - Holding time exceeded					
TNTC - Too numerous to count ($> 200 \text{ CFU}$)	X - Value exceeds Maximum Contaminant Level	MI - Matrix interference					
${f Q}$ - QC criteria failed or noncompliant CCV	# - Unknown hydrocarbon	DNI - Did not ignite					
NELAP - IL ELAP and NELAP Accredited Field of Testing IDPH - IL Dept. of Public Health							

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LABORATORY RESULTS

Client:	Philip Environm	ental			Client Pro	oject: A8	31-7350	02-012901-225/IP	Champ
WorkOrder:	08050896 Client Sample ID:				le ID: B-8	B-845 2.0-4.0 ft			
Lab ID:	08050896-001	1 Collection Date: 5/6/2008 2:35:00 PM							
Report Date:	29-May-08				Ma	atrix: SO	LID		
Analyses	5	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>ASTM D2974</u>									
FOC (0.58 conversion	n factor)		0.10	н	0.85	wt%	1	5/23/2008	HMH
Organic Matter			0.10	Н	1.47	wt%	1	5/23/2008	HMH

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LABORATORY RESULTS

Client:	Philip Environm	p Environmental Client Project: A831-735002-012901-225/IP Champ						Champ	
WorkOrder:	08050896	Client Sample ID: B-845 0.0-2.0 ft							
Lab ID:	08050896-002		Collection Date: 5/6/2008 2:40:00 PM						
Report Date:	29-May-08				Ma	atrix: SO	LID		
Analyses	S	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>ASTM D2974</u>									
FOC (0.58 conversion	n factor)		0.10	Н	1.77	wt%	1	5/23/2008	HMH
Organic Matter			0.10	Н	3.04	wt%	1	5/23/2008	HMH

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LABORATORY RESULTS

Client:	Philip Environm	onmental Client Project: A831-735002-012901-225/IP Champ						Champ		
WorkOrder:	08050896 Clie				Client Samp	Client Sample ID: B-851 19.0-20.0 ft				
Lab ID:	08050896-003	Collection Date: 5/9/2008 10:20:00 AM								
Report Date:	29-May-08				Μ	atrix: SC	LID			
Analyses	5	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst	
ASTM D2974										
FOC (0.58 conversion	n factor)		0.10		1.04	wt%	1	5/23/2008	HMH	
Organic Matter			0.10		1.79	wt%	1	5/23/2008	HMH	

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LABORATORY RESULTS

Client:	Philip Environm	ental			Client Pr	oject: A8	31-7350)02-012901-225/IP	Champ		
WorkOrder:	08050896 Cli				Client Samp	Client Sample ID: B-851 14.0-16.0 ft					
Lab ID:	08050896-004	4 Collection Date: 5/9/2008 10:15:00 AM									
Report Date:	29-May-08				Μ	atrix: SC	LID				
Analyses	S	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst		
ASTM D2974											
FOC (0.58 conversion	n factor)		0.10		1.40	wt%	1	5/23/2008	HMH		
Organic Matter			0.10		2.41	wt%	1	5/23/2008	HMH		

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Client: Philip Environmental DATES REPORT Project: A831-735002-012901-225/IP Champaign 62403053 Lab Order: 08050896 Report Date: 29-May-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Pro Da	ep Analysis Date
08050896-001A	B-845 2.0-4.0 ft	5/6/2008	Solid	ASTM D2974		5/23/2008
08050896-002A	B-845 0.0-2.0 ft			ASTM D2974		5/23/2008
08050896-003A	B-851 19.0-20.0 ft	5/9/2008		ASTM D2974		5/23/2008
08050896-004A	B-851 14.0-16.0 ft			ASTM D2974		5/23/2008

ANALYTICAL QC SUMMARY REPORT

Key QC concepts:

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- **DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- **DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
 - PQL Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
 - **RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
 - RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
 - SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
 - Surr Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

Qualifiers							
DF - Dilution Factor	B - Analyte detected in the associated Method Blank	C - Client requested RL below PQL	MI - Matrix interference				
RL - Reporting Limit	${f J}$ - Analyte detected below reporting limits	D - Diluted out of sample	DNI - Did not ignite				
ND - Not Detected at the Reporting Limit	R - RPD outside accepted recovery limits	IDPH - IL Dept. of Public Health	E - Value above quantitation range				
Surr - Surrogate Standard added by lab	${\bf S}$ - Spike Recovery outside accepted recovery limits	Q - QC criteria failed	H - Holding time exceeded				
$TNTC\;$ - Too numerous to count ($>200\;CFU$)	X - Value exceeds Maximum Contaminant Level	# - Unknown hydrocarbon	NELAP - IL ELAP and NELAP Accredited				

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050896 Report Date: 29-May-08

ANALYTICAL QC SUMMARY REPORT

TestCode: I_OM_D_M

Sample ID: 08050896-004ADUP	SampType: DUP			Units: wt%		Prep Dat	te:		RunNo: 108	3593	
Client ID: B-851 14.0-16.0 ftDU	Batch ID: R108593					Analysis Da	te: 5/23/20	08	SeqNo: 19	58606	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
FOC (0.58 conversion factor)	1.35	0.10						1.401	3.32	25	
Organic Matter	2.34	0.10						2.415	3.32	25	

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RECEIVING	CHECK I	JST

Client:	Philip Environmental		RECEIVING CHECK I
Project:	A831-735002-012901-225/IP Champa	aign 62403053	5
Lab Order:	08050896		
Report Date:	29-May-08		
Carrier: F	Rachael Hunson	Received By: AN	МН
Completed by: On: 23-May-08	A. Hacus Amanda M. Harris	Reviewed by: On: 23-May-08	Elizabeth A. Hurley Elizabeth A. Hurley

Pages to follow: Chain of custody 1	Extra pages included	0		
Shipping container/cooler in good condition?	Yes 🔽	No 🗌	Not Present	Temp °C 23.4
Custody seals intact on shippping container/cooler?	Yes 🗌	No 🗌	Not Present	
Custody seals intact on sample bottles?	Yes	No 🗌	Not Present	
Type of thermal preservation?	None 🗹	Ice 🗌	Blue Ice	Dry Ice
Chain of custody present?	Yes 🔽	No 🗌		
Chain of custody signed when relinquished and received?	Yes 🔽	No 🗌		
Chain of custody agrees with sample labels?	Yes 🔽	No 🗌		
Samples in proper container/bottle?	Yes 🔽	No 🗌		
Sample containers intact?	Yes 🗹	No 🗌		
Sufficient sample volume for indicated test?	Yes 🗹	No 🗌		
All samples received within holding time?	Yes	No 🗹		
Reported field parameters measured:	Field	Lab 🗌	NA 🗹	
Container/Temp Blank temperature in compliance?	Yes 🗌	No 🗹		
When thermal preservation is required, samples are complia 0.1° C - 6.0° C, or when samples are received on ice the sam	nt with a temperature e day as collected.	between		
Water - VOA vials have zero headspace?	Yes	No 🗌	No VOA vials submitted	\checkmark
Water - pH acceptable upon receipt?	Yes 🗹	No 🗌		
Any No responses	must be detailed below	w or on the C	OC.	

Samples received did not meet hold time requirements. Per Derek Ingram, continue with analysis out of hold time. EAH 5/23/08

The samples were out of temperature compliance upon receipt. Per Richard Husan, continue with analysis out of temperature compliance. AMH 5/23/08

	Chain of Cus	stody Record			
	210 West Sand Bank Road P.O. Box 230 Columbia, IL 62236-0230	(618) 281-7173 Phor (800) 733-7173 (618) 281-5120 Fax	e COC	しとしてし、ひょうしょう。 Serial No. B 08885	·
Bening Name Andrew Chamber	man Var	and the Analyses	s by Method Name and Nun	hber	
Project Number: (0240 21)5 2	Cost Code: 02450	5 		Labora	tory re upon
Sampler(s): P. HUSCV	Matrix	04 CC		Hecei	
Name: Teklab		mber		/ alterneed	· · · · · · · · · · · · · · · · · · ·
Laboratory Location: Collins ville	Soil Soil Vate Vate)ther al Nu		/ / awell wind put	e Cuint mun
Sample Number and (depth)	Date Time			Comments (Field PID)	0 ID #'s
B-845 20-40'	516 1435 X	X		080	102-9690-CO
B-845 0.0-2.0'	510 HUD X	X		Ŏ	ZC
B-851 19.0-20.0'	5189 1020 X	×			60
B-851 14.0-16.0'	5/189 1015 Y	X			T T

				-	
				-	
Samples Iced:	s jXNo		Lab Di	ectives:	
Preservatives (ONLY for Water Sample	∋s) . Hydrochloric acid (HCl)	Requested TAT: Fax and/or Mail Re	Bults to:	vs XSTD Other	
VOC Soil (5035)	 Sodium Bisulfate/Methanol Hydrochloric acid and/or Sulfuric Nitric acid 	acid C Deliverable Re Senaid C Deliverable Re	squested: Full QC & Limit	s CLP-LIKE EDD Other	
Cyanide	. Sodium hydroxide (NaOH)	Reporting Limits:			
Shipping:	Relinquished I	:yc	Receive	bd by:	
Carrier / Airbill No.	Sign	Jature Date	e Time	Signature	Time
	Hector	12401 523	0 11 0	110 UUS 7(330)	1.40
Distribution: WHITE to Lab CANARY to PM P. PE-179 (6/03)	NK to QA/QC GREEN to Sampler			Shaded Areas to be Compl	leted by Lab