TEKLAB, INC.

ENVIRONMENTAL TESTING LABORATORY

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

May 16, 2008

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

TEL: (618) 281-7173 FAX: (618) 281-5120



NELAP Accredited #100226

RE: A831-735002-012901-225/IP Champaign 62403053 **WorkOrder:** 08050396

Dear Derek Ingram:

TEKLAB, INC received 1 sample on 4/16/2008 10:00:00 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,

ideather A. White

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



ENVIRONMENTAL TESTING LABORATORY

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

Client: Philip Environmental SAMPLE SUMMARY

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

Lab Order: 08050396 Report Date: 16-May-08

Lab Sample ID	Client Sample ID	Fractions	Collection Date	
08050396-001	B-802 (8.5-10.0 ft)	1	4/15/2008 9:15:00 AM	

TEKLAB, INC.

ENVIRONMENTAL TESTING LABORATORY

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

Client: Philip Environmental CASE NARRATIVE

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

LabOrder: 08050396

Report Date: 16-May-08 Cooler Receipt Temp: °C

State accreditations:

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

Additional analysis requested on WO #08040620.

Qualifiers

DF - Dilution Factor

RL - Reporting Limit

 $\boldsymbol{ND}\,$ - Not Detected at the Reporting Limit

Surr - Surrogate Standard added by lab

 $\boldsymbol{TNTC}\;$ - Too numerous to count ($>200\;CFU$)

Q - QC criteria failed or noncompliant CCV

11016 Too numerous to count (> 200 Cl C)

B - Analyte detected in the associated Method Blank

 $\boldsymbol{J}\;$ - Analyte detected below reporting limits

 $\boldsymbol{R}\,$ - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

X - Value exceeds Maximum Contaminant Level

- Unknown hydrocarbon

NELAP - IL ELAP and NELAP Accredited Field of Testing IDPH - IL Dept. of Public Health

C - Client requested RL below

D - Diluted out of sample

E - Value above quantitation range

H - Holding time exceeded

MI - Matrix interference

DNI - Did not ignite



ENVIRONMENTAL TESTING LABORATORY

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

LABORATORY RESULTS

Client: Philip Environmental Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050396 Client Sample ID: B-802 (8.5-10.0 ft)

Lab ID: 08050396-001 Collection Date: 4/15/2008 9:15:00 AM

Report Date: 16-May-08 Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed Ana	alyst
SW-846 1311, 3010A, 6010B, M	ETALS IN TCLP EXT	TRACT B	Y ICP					
Arsenic	NELAP	0.250	<u>.</u>	< 0.250	mg/L	1	5/14/2008 11:09:50 AM	LAL
Barium	NELAP	0.0500		1.20	mg/L	1	5/14/2008 11:09:50 AM	LAL
Cadmium	NELAP	0.0200		< 0.0200	mg/L	1	5/14/2008 11:09:50 AM	LAL
Chromium	NELAP	0.100		< 0.100	mg/L	1	5/14/2008 11:09:50 AM	LAL
Lead	NELAP	0.400		< 0.400	mg/L	1	5/14/2008 11:09:50 AM	LAL
Selenium	NELAP	0.500		< 0.500	mg/L	1	5/14/2008 11:09:50 AM	LAL
Silver	NELAP	0.100		< 0.100	mg/L	1	5/14/2008 11:09:50 AM	LAL
SW-846 1311, 7470A IN TCLP	EXTRACT							
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	5/16/2008	JMW

Sample Narrative

TEKLAB, INC.

ENVIRONMENTAL TESTING LABORATORY

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

Client: Philip Environmental DATES REPORT

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

Lab Order: 08050396 Report Date: 16-May-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050396-001A	B-802 (8.5-10.0 ft)	4/15/2008	Solid	SW-846 1311, 3010A, 6010B, Metals in TCLP Extract by ICP	5/13/2008	5/14/2008
				SW-846 1311, 7470A in TCLP Extract	5/15/2008	5/16/2008

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 -	Dilı	ıtion	Fac	tor

RL - Reporting Limit

ND - Not Detected at the Reporting Limit

Surr - Surrogate Standard added by lab

TNTC - Too numerous to count (> 200 CFU)

B - Analyte detected in the associated Method Blank

J - Analyte detected below reporting limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

X - Value exceeds Maximum Contaminant Level

C - Client requested RL below PQL

D - Diluted out of sample

IDPH - IL Dept. of Public Health

O - QC criteria failed

- Unknown hydrocarbon

MI - Matrix interference

DNI - Did not ignite

E - Value above quantitation range

H - Holding time exceeded

NELAP - IL ELAP and NELAP Accredited

Client: Philip Environmental

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

Lab Order: 08050396 **Report Date:** 16-May-08

ANALYTICAL QC SUMMARY REPORT

TestCode: M_HG_TCLP

Sample ID:	: MB-44721	SampType: MBLK			Units: mg/L		Prep Dat	e: 5/15/20	08	RunNo: 10	8221	
Client ID:	ZZZZZZ	Batch ID: 44721			SOP 3062		Analysis Dat	e: 5/16/20	08	SeqNo: 19	49355	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		< 0.00020	0.00020	0.0002000	0	0	-100	100				
Sample ID	: LCS-44721	SampType: LCS			Units: mg/L		Prep Dat	e: 5/15/20	08	RunNo: 10	8221	
Client ID:	ZZZZZZ	Batch ID: 44721			SOP 3062		Analysis Dat	e: 5/16/20	08	SeqNo: 19	49356	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00487	0.00020	0.005000	0	97.4	85	115				
								1.10				
Sample ID:	: 08050396-001AMS	SampType: MS			Units: mg/L			e: 5/15/20	08	RunNo: 10	8221	
Sample ID Client ID:	: 08050396-001AMS B-802 (8.5-10.0 ft)M	SampType: MS Batch ID: 44721						e: 5/15/20		RunNo: 10 SeqNo: 19		
· ·			PQL	SPK value	Units: mg/L	%REC	Prep Dat Analysis Dat	e: 5/15/20 e: 5/16/20				Qual
Client ID:		Batch ID: 44721			Units: mg/L SOP 3062		Prep Dat Analysis Dat	e: 5/15/20 e: 5/16/20	08	SeqNo: 19	49398	Qual
Client ID: Analyte Mercury		Batch ID: 44721 Result	PQL	SPK value	Units: mg/L SOP 3062 SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit 75	e: 5/15/20 e: 5/16/20 HighLimit	08 RPD Ref Val	SeqNo: 19	49398 RPDLimit	Qual
Client ID: Analyte Mercury	B-802 (8.5-10.0 ft)M	Batch ID: 44721 Result 0.00486	PQL	SPK value	Units: mg/L SOP 3062 SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit 75	e: 5/15/20 e: 5/16/20 HighLimit 125 e: 5/15/20	RPD Ref Val	SeqNo: 19 %RPD	49398 RPDLimit	Qual
Client ID: Analyte Mercury Sample ID	B-802 (8.5-10.0 ft)M	Batch ID: 44721 Result 0.00486 SampType: MSD	PQL	SPK value	Units: mg/L SOP 3062 SPK Ref Val 0 Units: mg/L	%REC	Prep Dat Analysis Dat LowLimit 75 Prep Dat Analysis Dat	e: 5/15/20 e: 5/16/20 HighLimit 125 e: 5/15/20 e: 5/16/20	RPD Ref Val	SeqNo: 19 %RPD RunNo: 10	49398 RPDLimit	Qual

Client: Philip Environmental

ANALYTICAL QC SUMMARY REPORT

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

TestCode: M_TCLP_ICP

Lab Order: 08050396 **Report Date:** 16-May-08

MB-44825	SampType: MBLK			Units: mg/L		Prep Dat	te: 5/13/2 0	008	RunNo: 10 8	8105	
ZZZZZZ	Batch ID: 44825			SW1311		Analysis Da	te: 5/14/2 0	008	SeqNo: 194	46457	
	Resul	t PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
	< 0.250	0.250	0.2500	0	0	-100	100				
	< 0.0500	0.0500	0.05000	0	0	-100	100				
	< 0.0200	0.0200	0.02000	0	0	-100	100				
	< 0.100	0.100	0.1000	0	0	-100	100				
	< 0.400	0.400	0.4000	0	0	-100	100				
	0.24	0.500	0.5000	0	47.0	-100	100				J
	< 0.100	0.100	0.1000	0	0	-100	100				
-CS-44825	SampType: LCS			Units: mg/L		Prep Dat	te: 5/13/2 0	008	RunNo: 108	8105	
ZZZZZZ	Batch ID: 44825			SW1311		Analysis Da	te: 5/14/2 0	008	SeqNo: 194	46458	
	Resul	t PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
	21.4	0.250	20.00	0	107.1	85	115				
	21.2	0.0500	20.00	0	106.0	85	115				
	0.518	0.0200	0.5000	0	103.6	85	115				
	2.08	0.100	2.000	0	104.0	85	115				
	5.02	0.400	5.000	0	100.4	85	115				
	22.1	0.500	20.00	0	110.7	85	115				
	0.487	0.100	0.5000	0	97.4	85	115				
08050396-001AMS	SampType: MS			Units: mg/L		Prep Dat	te: 5/13/2 0	008	RunNo: 108	8105	
3-802 (8.5-10.0 ft)M	Batch ID: 44825			SW1311		Analysis Da	te: 5/14/2 0	008	SeqNo: 194	46462	
	Resul	t PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
	20.9	0.250	20.00	0	104.4	75	125				
	21.4	0.0500	20.00	1.196	101.0	75	125				
	0.502	0.0200	0.5000	0	100.4	75	125				
	2.06	0.100	2.000	0	103.2	75	125				
	4.82	0.400	5.000	0	96.3	75	125				
	21.3	0.500	20.00	0	106.6	75	125				
Z:	ZZZZZ 8050396-001AMS	<pre></pre>	CS-44825 SampType: LCS	 < 0.250	Result	Result	Result	Result	Result	Result	Result POL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit RPD Ref Val RPD Re

Client: Philip Environmental

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

Lab Order: 08050396 **Report Date:** 16-May-08

ANALYTICAL QC SUMMARY REPORT

TestCode: M_TCLP_ICP

Sample ID: 08050396-001AMS	SampType: MS			Units: mg/L		Prep Da	te: 5/13/20	08	RunNo: 108	105	
Client ID: B-802 (8.5-10.0 ft)M	Batch ID: 44825			SW1311		Analysis Da	te: 5/14/20	80	SeqNo: 194	6462	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.468	0.100	0.5000	0	93.6	75	125				
Sample ID: 08050396-001AMSD	SampType: MSD			Units: ma/l		Pren Da	te: 5/13/2 0	108	RunNo: 108	105	

Sample ID: 08050396-001AMSD	SampType: MSD			Units: mg/L		Prep Da	te: 5/13/20	800	RunNo: 108	3105	
Client ID: B-802 (8.5-10.0 ft)M	Batch ID: 44825			SW1311		Analysis Da	te: 5/14/2 0	800	SeqNo: 194	16463	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.3	0.250	20.00	0	106.3	75	125	20.89	1.76	20	
Barium	21.6	0.0500	20.00	1.196	102.1	75	125	21.40	0.977	20	
Cadmium	0.514	0.0200	0.5000	0	102.8	75	125	0.5020	2.36	20	
Chromium	2.11	0.100	2.000	0	105.4	75	125	2.063	2.21	20	
Lead	4.91	0.400	5.000	0	98.2	75	125	4.817	1.93	20	
Selenium	22.1	0.500	20.00	0	110.6	75	125	21.32	3.68	20	
Silver	0.462	0.100	0.5000	0	92.4	75	125	0.4680	1.29	20	

CHAIN-OF-CUSTODY RECORD

WorkOrder: 08050396

Page 1 of 1

Collinsville, IL 62234-7425 TEL: (618) 344-1004 FAX: (618) 344-1005

5445 Horseshoe Lake Road

TEKLAB, INC

Client:

210 West Sand Bank Road Columbia, IL 62236-0230 Philip Environmental

TEL: (618) 281-7173

FAX: (618) 281-5120 Project: A831-735002-012901-225/I

09-May-08

Requested Tests				80/	Date/Time	Received by: Marum & 2 Solwy I 5/9/08		
	SW1311/6010 SW1311/7470	e e	A	ysis requested on WO# 08040620. HAW 5/9/08		Received by:	Received by:	Received by:
		Bottle		ted on W	le le			
		Date Collected	4/15/2008 9:15:00 AM	dditional analysis reques	Date/Time			
		Matrix	Solid	Ingram, a				
		ClientSamplD	B-802 (8.5-10 ft)	data in excel Per Derek Ingram, additional analy		.y:	y:	y:
		Sample ID	08050396-001	Comments:		Relinquished by:	Relinquished by:	Relinquished by:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other