

Bratcher, Mike, EMNRD

From: Bradley Blevins [bradley.blevins@chk.com]
Sent: Friday, August 20, 2010 10:54 AM
To: Bratcher, Mike, EMNRD
Subject: FW: LITTLEFIELD FEDERAL SWD
Attachments: H20652 EPI.pdf

Mike,

Attached are the lab results from the Littlefield SWD, we sent the core rig back out to the site to try to drill another borehole. The rig met refusal again, so I sent a trachoe to the site. The operator was able to bench down to about five feet and began digging a test trench, we were able to collect a sample to a max depth of 24.5 feet below ground surface. Please reply your thoughts after reviewing the data.

Thanks,

Bradley Blevins
EH & S Field Specialist
DAR
Hobbs Field Office
North Permian Division
Office: (575) 391-1462 x 86424
Cell: (575) 441-0341
Fax: (575)391-6679



From: Celey Keene [mailto:celey.keene@cardinallabsnm.com]
Sent: Tuesday, August 17, 2010 2:24 PM
To: Bradley Blevins; Jerry Smith
Subject: LITTLEFIELD FEDERAL SWD

THANK YOU,

Celey Keene
Lab Director
Cardinal Laboratories
101 East Marland
Hobbs, NM 88240
T: (575) 393-2326
F: (575) 393-2476
e-mail: celey.keene@cardinallabsnm.com

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August 17, 2010

JERRY SMITH

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: LITTLEFIELD FEDERAL SWD

Enclosed are the results of analyses for samples received by the laboratory on 08/16/10 14:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Environmental Plus, Inc.
 JERRY SMITH
 P.O. Box 1558
 Eunice NM, 88231
 Fax To: (505) 394-2601

Received: 08/16/2010
 Reported: 08/17/2010
 Project Name: LITTLEFIELD FEDERAL SWD
 Project Number: 160957
 Project Location: UL-B, SECT.11, T 24 S, R 31 E

Sampling Date: 08/16/2010
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: ST1-A- 24.5 FT. (H020652-01)

BTEX 8021B		mg/kg		Analyzed By: ZL						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2010	ND	0.902	90.2	1.00	6.10		
Toluene*	<0.050	0.050	08/17/2010	ND	1.02	102	1.00	1.41		
Ethylbenzene*	<0.050	0.050	08/17/2010	ND	0.961	96.1	1.00	5.03		
Total Xylenes*	<0.150	0.150	08/17/2010	ND	3.40	113	3.00	1.14		

Surrogate: 4-Bromofluorobenzene (PIL) 82.5 % 80-120

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	08/16/2010	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/16/2010	ND	168	84.2	200	3.43		
DRO >C10-C28	<10.0	10.0	08/16/2010	ND	167	83.4	200	3.26		

Surrogate: 1-Chlorooctane 91.0 % 70-130

Surrogate: 1-Chlorooctadecane 102 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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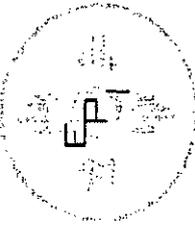
Celey D. Keene, Lab Director/Quality Manager

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
 (575) 394-3481 FAX: (575) 394-2601
 P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB: Cardinal

 <p>Attn: Jerry Smith P.O. Box 1558 Eunice, NM 88231</p>		<p>Bill To</p>		<p>ANALYSIS REQUEST</p>																			
<p>Company Name: Environmental Plus, Inc.</p> <p>EPI Project Manager: Jerry Smith</p> <p>Mailing Address: P.O. BOX 1558</p> <p>City, State, Zip: Eunice New Mexico 88231</p> <p>EPI Phone#/Fax#: 575-394-3481 / 575-394-2601</p> <p>Client Company: Chesapeake Energy</p> <p>Facility Name: Littlefield Federal SWD</p> <p>Location: UL-B, Sect. 11, T 24 S, R 31 E</p> <p>Project Reference: 160957</p> <p>EPI Sampler Name: David Robinson</p>		<p>MATRIX</p> <p>GROUND WATER</p> <p>WASTEWATER</p> <p>SOIL</p> <p>CRUDE OIL</p> <p>SLUDGE</p> <p>OTHER:</p> <p>ACID/BASE</p> <p>ICE/COOL</p> <p>OTHER</p>		<p>PRESERV.</p> <p>DATE</p> <p>TIME</p>		<p>BTEX 8021B</p> <p>TPH 8015M</p> <p>CHLORIDES (Cl)</p> <p>SULFATES (SO₄)</p> <p>PH</p> <p>TCLP</p> <p>OTHER >>></p> <p>PAH</p>																	
LAB I.D.	SAMPLE I.D.	# CONTAINERS	(G)RAB OR (C)OMP.	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME										
	H20052-1	1	G		X					X		16-Aug-10	11:35										
		2	G																				
		3	G																				
		4	G																				
		5	G																				
		6																					
		7																					
		8																					
		9																					
		10																					
Sampler Relinquished:		08/16/10	Received By:																				
Relinquished by:		Time	08/16/10	Received By: (lab staff)																			
Delivered by:		5:40	Sample Cool & Intact	Yes	No																		
			Yes	No																			

E-mail results to: jsmith.epl@gmail.com; bradley.blevins@chik.com
 RUSH ORDER!!!

Delivered by: *[Signature]*
 5:40
 Sample Cool & Intact: Yes
 No
 Ordered By: *[Signature]*
 #26