

30-025-20349



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

February 18, 2011

JACOB MELANCON

PANTHER ENERGY

101 E. PANTHER

JAL, NM 88252

RE: HANSON C #001

Enclosed are the results of analyses for samples received by the laboratory on 02/15/11 15:03.

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,

Celey D. Keene
Lab Director/Quality Manager

— COMMUNICATE W/ BLM
THAT OCD STATED:

— EXCAVATE 3.0' INSIDE
BERMED AREA AND
COLLECT CONFIRMATION
SAMPLES

— Approved by Geoff Lehmig
Env. Engr.
NMDCO-Hobbs
02/12/11



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

July 20, 2010

Jerry Smith
Environmental Plus, Inc.
P.O. Box 1558
Eunice, NM 88231

Re: Appleseed Fed. #2

Enclosed are the results of analyses for sample number H20337, received by the laboratory on 07/14/10 at 8:25 am.

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 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

approved by
Jeffrey Leikin
Environmental Engineer
NMOCB-Hobbs
07/30/10

This report conforms with NELAP requirements.



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: JERRY SMITH
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (575) 394-2601

Receiving Date: 07/14/10
Reporting Date: 07/15/10
Project Owner: CHESAPEAKE ENERGY (161047)
Project Name: APPLESEED FED. #2
Project Location: UL-H, NE/4 SECT. 17-20S-35E

Sampling Date: 07/13/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: JH
Analyzed By: AB/ZL/HM

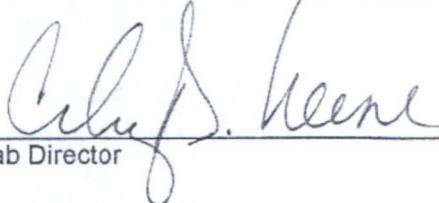
LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (C ₁₀ -C ₂₈) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE:		07/14/10	07/14/10	07/15/10	07/15/10	07/15/10	07/15/10	07/13/10
H20337-1	BH 1 (2FT)	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	< 16
H20337-2	BH 2 (2FT)	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	< 16
H20337-3	BH 3 (2FT)	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	< 16
H20337-4	BH 4 (2FT)	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	< 16
H20337-5**	BH 5 (2FT)	<10.0	70.0	<0.050	<0.050	<0.050	<0.300	< 16
H20337-6	BH 6 (2FT)	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	< 16
H20337-7	BH 7 (2FT 6IN)	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	< 16
H20337-8**	BH 8 (1FT 6IN)	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	< 16
H20337-9	BH 9 (3FT)	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	< 16
H20337-10	BH 10 (3FT)	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	< 16
H20337-11	BH 11 (2FT)	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	< 16
H20337-12	BH 12 (2FT 6IN)	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	< 16
Quality Control		577	564	0.008	0.008	0.008	0.025	500
True Value QC		500	500	0.010	0.010	0.010	0.030	500
% Recovery		115	113	80.3	80.6	81.5	83.3	100
Relative Percent Difference		1.1	0.3	4.7	3.7	1.7	1.4	< 0.1

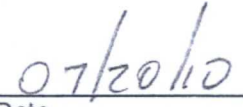
METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B; Cl-: Std. Methods 4500-Cl-B

*Analyses performed on 1:4 w/v aqueous extracts. Reported on wet weight.

**One or more TPH surrogates outside historical limits due to matrix interference.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES. Not accredited for GRO/DRO and Chloride.


Lab Director


Date

H20337 TBCL EPI

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Result relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
 (505) 394-3481 FAX: (505) 394-2601
 P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB

EPI

Company Name Environmental Plus, Inc.		Bill To		ANALYSIS REQUEST																	
EPI Project Manager Jerry Smith																					
Mailing Address P.O. BOX 1558																					
City, State, Zip Eunice New Mexico 88231																					
EPI Phone#/Fax# 505-394-3481 / 505-394-2601																					
Client Company Chesapeake Energy																					
Facility Name Appleseed Fed. #2																					
Location UL-H, NE/4 Sect. 17-20S-35E																					
Project Reference 161047																					
EPI Sampler Name Kirt Tyree																					
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	TPH 8015M	CHLORIDES (C)	SULFATES (SO ₄)	PH	TCLP	OTHER >>>	PAH
H20337-1	1 BH 1 (2ft)	G 1	1			1					X		13-Jul-10	8:00	X	X					
2	BH 2 (2ft)	G 1	1			1					X		13-Jul-10	8:05	X	X					
3	BH 3 (2ft)	G 1	1			1					X		13-Jul-10	8:10	X	X					
4	BH 4 (2ft)	G 1	1			1					X		13-Jul-10	8:15	X	X					
5	BH 5 (2ft)	G 1	1			1					X		13-Jul-10	8:20	X	X					
6	BH 6 (2ft)	G 1	1			1					X		13-Jul-10	8:25	X	X					
7	BH 7 (2ft 6in)	G 1	1			1					X		13-Jul-10	1:00	X	X					
8	BH 8 (1ft 6in)	G 1	1			1					X		13-Jul-10	1:05	X	X					
9	BH 9 (3ft)	G 1	1			1					X		13-Jul-10	1:15	X	X					
10	BH 10 (3ft)	G 1	1			1					X		13-Jul-10	1:20	X	X					

Sampler, Relinquished:	Date 7-14-10	Received By:	E-mail results to: jsmith.epi@gmail.com
Relinquished by:	Time 7:00	Received By: (lab staff)	NO TESTS:
Delivered by:	Date 7-14-10	Time 8:25	
	Sample Cool & Intact	Checked By:	
	Yes	No	

6c #26

2100 Avenue O, Eunice, NM 88231

P.O. Box 1558, Eunice, NM 88231

(505) 394-3481 FAX: (505) 394-2601

Company Name	Environmental Plus, Inc.

EPI Project Manager Jerry Smith

Mailing Address P.O. BOX 1558

City.	State.	Zip
Eunice	New Mexico	88231

EPI Phone#/Fax# 505-394-3481 / 505-394-2601

Client Company	Chesapeake Energy
Chesapeake Energy	Chesapeake Energy

Facility Name	Apples Fed. #2
Onesapeake Energy	

Location	UL-H, NE/4 Sect. 17-20S-35E
Location	UL-H, NE/4 Sect. 17-20S-35E

Project Reference	161047
-------------------	--------

EPI Sampler Name Kirt Tyree

Attn: Jerry Smith

P.O. Box 1558

Eunice, NM 88231

Company Name	Environmental Plus, Inc.

EPI Project Manager Jerry Smith

Mailing Address P.O. BOX 1558

City.	State.	Zip
Eunice	New Mexico	88231

EPI Phone#/Fax# 505-394-3481 / 505-394-2601

Client Company	Chesapeake Energy
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Location	UL-H, NE/4 Sect. 17-20S-35E
Location	UL-H, NE/4 Sect. 17-20S-35E

Project Reference	161047
-------------------	--------

EPI Sampler Name Kirt Tyree

Attn: Jerry Smith

P.O. Box 1558

Eunice, NM 88231

[illegible]

Sampler Relinquished:

Date 7-14-10

Received By:

Time _____

Adam Boon

Date 7-14-10

Received By: (lab staff)

Time, 2 C

Q. Now, how

0.3

<p>  </p>	<p> Checked By: </p>
------------------------------------------------------------------------------------------------	--------------------------------------------

Sam

Cool & Intact

E-mail results to: jsm1th.epi@gmail.com

NOTES:

602

#26

TABLE 2

Summary of Excavation Soil Sample Field Analyses and Laboratory Analytical Results**Chesapeake Operating - Appleseed Federal #2 (EPI Ref: #161047)****Legal Description: UL-H (SE1/4 of the NE1/4_ of Section 17, T20S, R35E, Lea County, New Mexico**

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	TPH (mg/Kg)	Chloride* (mg/Kg)
BH-1	2	In Situ	14-Jul-10	--	--	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	<16
BH-2	2	In Situ	14-Jul-10	--	--	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	<16
BH-3	2	In Situ	14-Jul-10	--	--	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	<16
BH-4	2	In Situ	14-Jul-10	--	--	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	<16
BH-5**	2	In Situ	14-Jul-10	--	--	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	<16
BH-6	2	In Situ	14-Jul-10	--	--	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	<16
BH-7	2.5	In Situ	14-Jul-10	--	--	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	<16
BH-8**	1.5	In Situ	14-Jul-10	--	--	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	<16
BH-9	3	In Situ	14-Jul-10	--	--	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	<16
BH-10	3	In Situ	14-Jul-10	--	--	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	<16
BH-11	2	In Situ	14-Jul-10	--	--	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	<16
BH-12	2.5	In Situ	14-Jul-10	--	--	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	<16
NMOCD Remedial Thresholds				100 ³		10				50			100	250

¹ Bolded values are in excess of the NMOCD Remediation Thresholds² --: Not Analyzed³ In lieu of laboratory analyses of benzene, toluene, ethylbenzene and total xylenes.

* = Analyses performed on 1:4 w:v aqueous extracts. Reported on Net weight.

** = One or more TPH surrogates outside historical limits due to matrix interference.