



December 12, 2012

Daniel Dominguez
Environmental Plus, Inc.
P.O. Box 1558
Eunice, NM 88231

RE: CROW FLATS 14-16-28 USA 5H

Enclosed are the results of analyses for samples received by the laboratory on 12/11/12 11:54.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.htm.

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 (V1, 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

Analytical Results For:

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

 Received: 12/11/2012
 Reported: 12/12/2012
 Project Name: CROW FLATS 14-16-28 USA 5H
 Project Number: NOT GIVEN
 Project Location: UL-SEC. 14, T16S, R28E

 Sampling Date: 12/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 1 (SURFACE) (H202970-01)

BTEX 8021B			Analyzed By: AP							S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	61.6	2.00	12/12/2012	ND	2.05	102	2.00	5.24			
Toluene*	304	2.00	12/12/2012	ND	2.22	111	2.00	5.18			
Ethylbenzene*	267	2.00	12/12/2012	ND	2.16	108	2.00	5.33			
Total Xylenes*	482	6.00	12/12/2012	ND	6.51	109	6.00	5.20			
Total BTEX	1110	12.0	12/12/2012	ND							

Surrogate: 4-Bromofluorobenzene (PIC) 190 % 89.4-126

Chloride, SM4500Cl-B			Analyzed By: AP							S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	832	16.0	12/12/2012	ND	448	112	400	3.64			

TPH 8015M			Analyzed By: MS							S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	6930	50.0	12/11/2012	ND	187	93.7	200	1.18			
DRO >C10-C28	18700	50.0	12/11/2012	ND	208	104	200	0.307			

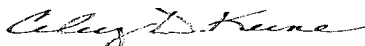
Surrogate: 1-Chlorooctane 256 % 65.2-140

Surrogate: 1-Chlorooctadecane 456 % 63.6-154

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*=Accredited Analyte

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 Received: 12/11/2012
 Reported: 12/12/2012
 Project Name: CROW FLATS 14-16-28 USA 5H
 Project Number: NOT GIVEN
 Project Location: UL-SEC. 14, T16S, R28E

 Sampling Date: 12/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 1 (1') (H202970-02)

BTEX 8021B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	0.301	0.050	12/12/2012	ND	2.05	102	2.00	5.24			
Toluene*	0.514	0.050	12/12/2012	ND	2.22	111	2.00	5.18			
Ethylbenzene*	0.185	0.050	12/12/2012	ND	2.16	108	2.00	5.33			
Total Xylenes*	0.364	0.150	12/12/2012	ND	6.51	109	6.00	5.20			
Total BTEX	1.37	0.300	12/12/2012	ND							

Surrogate: 4-Bromofluorobenzene (PIE) 119 % 89.4-126

Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	544	16.0	12/12/2012	ND	400	100	400	0.00			

TPH 8015M			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	12/11/2012	ND	187	93.7	200	1.18			
DRO >C10-C28	<10.0	10.0	12/11/2012	ND	208	104	200	0.307			

Surrogate: 1-Chlorooctane 68.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 71.2 % 63.6-154

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 Received: 12/11/2012
 Reported: 12/12/2012
 Project Name: CROW FLATS 14-16-28 USA 5H
 Project Number: NOT GIVEN
 Project Location: UL-SEC. 14, T16S, R28E

 Sampling Date: 12/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 1 (2') (H202970-03)

BTEX 8021B			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/12/2012	ND	2.05	102	2.00	5.24		
Toluene*	<0.050	0.050	12/12/2012	ND	2.22	111	2.00	5.18		
Ethylbenzene*	<0.050	0.050	12/12/2012	ND	2.16	108	2.00	5.33		
Total Xylenes*	<0.150	0.150	12/12/2012	ND	6.51	109	6.00	5.20		
Total BTEX	<0.300	0.300	12/12/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 117 % 89.4-126

Chloride, SM4500Cl-B			Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/12/2012	ND	400	100	400	0.00		

TPH 8015M			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/11/2012	ND	187	93.7	200	1.18		
DRO >C10-C28	<10.0	10.0	12/11/2012	ND	208	104	200	0.307		

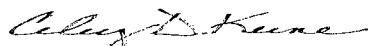
Surrogate: 1-Chlorooctane 85.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.4 % 63.6-154

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* = Accredited Analyte

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 Received: 12/11/2012
 Reported: 12/12/2012
 Project Name: CROW FLATS 14-16-28 USA 5H
 Project Number: NOT GIVEN
 Project Location: UL-SEC. 14, T16S, R28E

 Sampling Date: 12/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 2 (SURFACE) (H202970-04)

BTEX 8021B			Analyzed By: AP							S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	44.3	5.00	12/12/2012	ND	2.05	102	2.00	5.24			
Toluene*	254	5.00	12/12/2012	ND	2.22	111	2.00	5.18			
Ethylbenzene*	208	5.00	12/12/2012	ND	2.16	108	2.00	5.33			
Total Xylenes*	375	15.0	12/12/2012	ND	6.51	109	6.00	5.20			
Total BTEX	881	30.0	12/12/2012	ND							

Surrogate: 4-Bromofluorobenzene (PIL) 137 % 89.4-126

Chloride, SM4500Cl-B			Analyzed By: HM							S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	2200	16.0	12/12/2012	ND	400	100	400	0.00			

TPH 8015M			Analyzed By: MS							S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	13700	50.0	12/11/2012	ND	187	93.7	200	1.18			
DRO >C10-C28	35900	50.0	12/11/2012	ND	208	104	200	0.307			

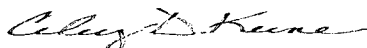
Surrogate: 1-Chlorooctane 501 % 65.2-140

Surrogate: 1-Chlorooctadecane 868 % 63.6-154

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 Received: 12/11/2012
 Reported: 12/12/2012
 Project Name: CROW FLATS 14-16-28 USA 5H
 Project Number: NOT GIVEN
 Project Location: UL-SEC. 14, T16S, R28E

 Sampling Date: 12/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 2 (1') (H202970-05)

BTEX 8021B			mg/kg							
			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/12/2012	ND	2.05	102	2.00	5.24		
Toluene*	0.051	0.050	12/12/2012	ND	2.22	111	2.00	5.18		
Ethylbenzene*	<0.050	0.050	12/12/2012	ND	2.16	108	2.00	5.33		
Total Xylenes*	<0.150	0.150	12/12/2012	ND	6.51	109	6.00	5.20		
Total BTEX	<0.300	0.300	12/12/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 89.4-126

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	12/12/2012	ND	400	100	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/11/2012	ND	187	93.7	200	1.18		
DRO >C10-C28	<10.0	10.0	12/11/2012	ND	208	104	200	0.307		

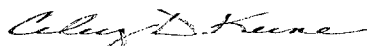
Surrogate: 1-Chlorooctane 86.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.6 % 63.6-154

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 Received: 12/11/2012
 Reported: 12/12/2012
 Project Name: CROW FLATS 14-16-28 USA 5H
 Project Number: NOT GIVEN
 Project Location: UL-SEC. 14, T16S, R28E

 Sampling Date: 12/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 2 (2') (H202970-06)
BTEX 8021B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2012	ND	2.05	102	2.00	5.24	
Toluene*	<0.050	0.050	12/12/2012	ND	2.22	111	2.00	5.18	
Ethylbenzene*	<0.050	0.050	12/12/2012	ND	2.16	108	2.00	5.33	
Total Xylenes*	<0.150	0.150	12/12/2012	ND	6.51	109	6.00	5.20	
Total BTEX	<0.300	0.300	12/12/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 114 % 89.4-126

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/12/2012	ND	400	100	400	0.00	

TPH 8015M

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/11/2012	ND	187	93.7	200	1.18	
DRO >C10-C28	<10.0	10.0	12/11/2012	ND	208	104	200	0.307	

Surrogate: 1-Chlorooctane 84.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.1 % 63.6-154

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 Received: 12/11/2012
 Reported: 12/12/2012
 Project Name: CROW FLATS 14-16-28 USA 5H
 Project Number: NOT GIVEN
 Project Location: UL-SEC. 14, T16S, R28E

 Sampling Date: 12/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 3 (SURFACE) (H202970-07)

BTEX 8021B			Analyzed By: AP						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	26.5	5.00	12/12/2012	ND	2.05	102	2.00	5.24		
Toluene*	165	5.00	12/12/2012	ND	2.22	111	2.00	5.18		
Ethylbenzene*	154	5.00	12/12/2012	ND	2.16	108	2.00	5.33		
Total Xylenes*	288	15.0	12/12/2012	ND	6.51	109	6.00	5.20		
Total BTEX	633	30.0	12/12/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 132 % 89.4-126

Chloride, SM4500Cl-B			Analyzed By: HM						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18400	16.0	12/12/2012	ND	400	100	400	0.00		

TPH 8015M			Analyzed By: MS						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	8790	50.0	12/11/2012	ND	187	93.7	200	1.18		
DRO >C10-C28	32800	50.0	12/11/2012	ND	208	104	200	0.307		

Surrogate: 1-Chlorooctane 383 % 65.2-140

Surrogate: 1-Chlorooctadecane 840 % 63.6-154

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 Received: 12/11/2012
 Reported: 12/12/2012
 Project Name: CROW FLATS 14-16-28 USA 5H
 Project Number: NOT GIVEN
 Project Location: UL-SEC. 14, T16S, R28E

 Sampling Date: 12/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 3 (1') (H202970-08)

BTEX 8021B			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/12/2012	ND	2.05	102	2.00	5.24		
Toluene*	<0.050	0.050	12/12/2012	ND	2.22	111	2.00	5.18		
Ethylbenzene*	<0.050	0.050	12/12/2012	ND	2.16	108	2.00	5.33		
Total Xylenes*	<0.150	0.150	12/12/2012	ND	6.51	109	6.00	5.20		
Total BTEX	<0.300	0.300	12/12/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 89.4-126

Chloride, SM4500Cl-B			Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	12/12/2012	ND	400	100	400	0.00		

TPH 8015M			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/11/2012	ND	187	93.7	200	1.18		
DRO >C10-C28	<10.0	10.0	12/11/2012	ND	208	104	200	0.307		

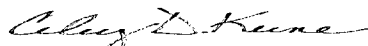
Surrogate: 1-Chlorooctane 84.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.6 % 63.6-154

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 Received: 12/11/2012
 Reported: 12/12/2012
 Project Name: CROW FLATS 14-16-28 USA 5H
 Project Number: NOT GIVEN
 Project Location: UL-SEC. 14, T16S, R28E

 Sampling Date: 12/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 3 (2') (H202970-09)

BTEX 8021B			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/12/2012	ND	2.05	102	2.00	5.24		
Toluene*	<0.050	0.050	12/12/2012	ND	2.22	111	2.00	5.18		
Ethylbenzene*	<0.050	0.050	12/12/2012	ND	2.16	108	2.00	5.33		
Total Xylenes*	<0.150	0.150	12/12/2012	ND	6.51	109	6.00	5.20		
Total BTEX	<0.300	0.300	12/12/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 115 % 89.4-126

Chloride, SM4500Cl-B			Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/12/2012	ND	400	100	400	0.00		

TPH 8015M			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/11/2012	ND	187	93.7	200	1.18		
DRO >C10-C28	<10.0	10.0	12/11/2012	ND	208	104	200	0.307		


Surrogate: 1-Chlorooctane 77.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.3 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager


Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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

Company Name		Environmental Plus, Inc.		Bill To											ANALYSIS REQUEST																						
EPI Project Manager		Daniel Dominguez		 Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231																																	
Mailing Address		P.O. BOX 1558																																			
City, State, Zip		Eunice New Mexico 88231																																			
EPI Phone#/Fax#		575-394-3481 / 575-394-2601																																			
Client Company		Chesapeake Energy																																			
Facility Name		Crow Flats 14-16-28 USA 5H																																			
Location		UL- Sec. 14, T16S, R28E																																			
Project Reference																																					
EPI Sampler Name		David Robinson																																			
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.			SAMPLING		BTEx 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄ ⁻)	PH	TCLP	OTHER >>>	PAH														
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME																							
H202970-																																					
01	1 SP1 (Surface)	G				X									10-Dec-12	13:45	X	X	X																		
02	2 SP1 (1')	G				X									10-Dec-12	13:46	X	X	X																		
03	3 SP1 (2')	G				X									10-Dec-12	13:47	X	X	X																		
04	4 SP2 (Surface)	G				X									10-Dec-12	14:15	X	X	X																		
05	5 SP2 (1')	G				X									10-Dec-12	14:16	X	X	X																		
06	6 SP2 (2')	G				X									10-Dec-12	14:17	X	X	X																		
07	7 SP3 (Surface)	G				X									10-Dec-12	14:40	X	X	X																		
08	8 SP3 (1')	G				X									10-Dec-12	14:41	X	X	X																		
09	9 SP3 (2')	G				X									10-Dec-12	14:42	X	X	X																		
	10																																				

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