



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

June 13, 2016

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: CORRAL CANYON FED 4H

Enclosed are the results of analyses for samples received by the laboratory on 06/06/16 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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.html.

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:	06/06/2016	Sampling Date:	06/06/2016
Reported:	06/13/2016	Sampling Type:	Soil
Project Name:	CORRAL CANYON FED 4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-P SEC.5,T25S,R29E		

Sample ID: SP1 (SURFACE) (H601228-01)

BTEx 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	0.272	0.200	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.200	0.200	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	1.07	0.600	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTEx	1.35	1.20	06/09/2016	ND					

Surrogate: Dibromofluoromethane 105 % 90.4-111

Surrogate: Toluene-d8 96.3 % 85.3-114

Surrogate: 4-Bromofluorobenzene 103 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	33200	16.0	06/07/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	06/07/2016	ND	169	84.7	200	11.4		
DRO >C10-C28	23200	100	06/07/2016	ND	183	91.6	200	14.1		

Surrogate: 1-Chlorooctane 57.0 % 35-147

Surrogate: 1-Chlorooctadecane 1010 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Received:	06/06/2016	Sampling Date:	06/06/2016
Reported:	06/13/2016	Sampling Type:	Soil
Project Name:	CORRAL CANYON FED 4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-P SEC.5,T25S,R29E		

Sample ID: SP1 (1') (H601228-02)

BTEx 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	<0.050	0.050	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTEx	<0.300	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 103 % 90.4-111

Surrogate: Toluene-d8 101 % 85.3-114

Surrogate: 4-Bromofluorobenzene 101 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/07/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/07/2016	ND	169	84.7	200	11.4	
DRO >C10-C28	12.7	10.0	06/07/2016	ND	183	91.6	200	14.1	

Surrogate: 1-Chlorooctane 62.6 % 35-147

Surrogate: 1-Chlorooctadecane 86.2 % 28-171

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Received:	06/06/2016	Sampling Date:	06/06/2016
Reported:	06/13/2016	Sampling Type:	Soil
Project Name:	CORRAL CANYON FED 4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-P SEC.5,T25S,R29E		

Sample ID: SP2 (SURFACE) (H601228-03)

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	<0.200	0.200	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.200	0.200	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	<0.600	0.600	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTX	<1.20	1.20	06/09/2016	ND					

Surrogate: Dibromofluoromethane 105 % 90.4-111

Surrogate: Toluene-d8 97.2 % 85.3-114

Surrogate: 4-Bromofluorobenzene 100 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34800	16.0	06/07/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	06/07/2016	ND	169	84.7	200	11.4		
DRO >C10-C28	6080	100	06/07/2016	ND	183	91.6	200	14.1		

Surrogate: 1-Chlorooctane 46.2 % 35-147

Surrogate: 1-Chlorooctadecane 257 % 28-171

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Reported:	06/13/2016	Sampling Type:	Soil
Project Name:	CORRAL CANYON FED 4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-P SEC.5,T25S,R29E		

Sample ID: SP2 (1') (H601228-04)

BTEx 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	<0.050	0.050	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTEx	<0.300	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 104 % 90.4-111

Surrogate: Toluene-d8 97.9 % 85.3-114

Surrogate: 4-Bromofluorobenzene 99.6 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/07/2016	ND	169	84.7	200	11.4	
DRO >C10-C28	<10.0	10.0	06/07/2016	ND	183	91.6	200	14.1	

Surrogate: 1-Chlorooctane 62.2 % 35-147

Surrogate: 1-Chlorooctadecane 88.0 % 28-171

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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.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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



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

Page 1 of 1

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Company Name Environmental Plus, Inc.
EPI Project Manager Daniel Dominguez
Mailing Address P.O. BOX 1558
City, State, Zip Eunice New Mexico 88231
EPI Phone#/Fax# 575-394-3481 / 575-394-2601
Client Company XTO
Facility Name Corral Canyon Fed 4H
Location UL-P Sec. 5, T25S, R29E
Project Reference
EPI Sampler Name David Robinson



Attn: Daniel Dominguez
P.O. Box 1558
Eunice, NM 88231

Bill To

ANALYSIS REQUEST

LAB I.D. H6D1228

SAMPLE I.D.

		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	OTHER	DATE	TIME
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:				
1	SP1 (Surface)	G	1			X				X		06-Jun-16	10:16
2	SP1 (1')	G	1			X				X		06-Jun-16	10:45
3	SP2 (Surface)	G	1			X				X		06-Jun-16	11:35
4	SP2 (1')	G	1			X				X		06-Jun-16	11:41
5													
6													
7													
8													
9													
10													

BTEX 8021B

TPH 8015M

CHLORIDES (Cl⁻)

SULFATES (SO₄²⁻)

pH

TCLP

OTHER >>>

PAH

Sampler Relinquished:

Relinquished by:

Delivered by:

Date 6/6/16

Time 2:00 pm

Date 6/6/16

Time 3:35 pm

Received By: (lab staff)

Signature

E-mail results to: ddominguezepi@gmail.com & jo_rn_robinson@xtoenergy.com

NOTES:

Sample Cool & Intact

Yes

No

Checked By:

Signature

Signature