



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

July 29, 2014

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: PLU #227

Enclosed are the results of analyses for samples received by the laboratory on 07/22/14 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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,

A handwritten signature in black ink that reads "Hope S. Moreno". The signature is written in a cursive, flowing style.

Hope S. Moreno For 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: 07/22/2014
Reported: 07/29/2014
Project Name: PLU #227
Project Number: NONE GIVEN
Project Location: BOPCO

Sampling Date: 07/21/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 1 (SURFACE) (H402223-01)

BTX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.100	0.100	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.100	0.100	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.300	0.300	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTX	<0.600	0.600	07/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18800	16.0	07/25/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	07/23/2014	ND	162	81.2	200	3.50	
DRO >C10-C28	13700	200	07/23/2014	ND	174	86.8	200	5.19	

Surrogate: 1-Chlorooctane 96.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 512 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Received: 07/22/2014
Reported: 07/29/2014
Project Name: PLU #227
Project Number: NONE GIVEN
Project Location: BOPCO

Sampling Date: 07/21/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 1 (1') (H402223-02)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/26/2014	ND	1.79	89.7	2.00	8.27		
Toluene*	<0.050	0.050	07/26/2014	ND	1.78	88.8	2.00	9.26		
Ethylbenzene*	<0.050	0.050	07/26/2014	ND	1.77	88.5	2.00	9.31		
Total Xylenes*	<0.150	0.150	07/26/2014	ND	5.61	93.5	6.00	8.97		
Total BTX	<0.300	0.300	07/26/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/25/2014	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	07/23/2014	ND	162	81.2	200	3.50	
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	174	86.8	200	5.19	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 130 % 63.6-154

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Fax To: (505) 394-2601

Received: 07/22/2014
Reported: 07/29/2014
Project Name: PLU #227
Project Number: NONE GIVEN
Project Location: BOPCO

Sampling Date: 07/21/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 2 (SURFACE) (H402223-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2014	ND	1.79	89.7	2.00	8.27	
Toluene*	<0.050	0.050	07/26/2014	ND	1.78	88.8	2.00	9.26	
Ethylbenzene*	<0.050	0.050	07/26/2014	ND	1.77	88.5	2.00	9.31	
Total Xylenes*	<0.150	0.150	07/26/2014	ND	5.61	93.5	6.00	8.97	
Total BTX	<0.300	0.300	07/26/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18200	16.0	07/25/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	07/23/2014	ND	162	81.2	200	3.50	
DRO >C10-C28	9880	100	07/23/2014	ND	174	86.8	200	5.19	


Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 387 % 63.6-154

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Fax To: (505) 394-2601

Received: 07/22/2014
Reported: 07/29/2014
Project Name: PLU #227
Project Number: NONE GIVEN
Project Location: BOPCO

Sampling Date: 07/21/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 2 (1') (H402223-04)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/26/2014	ND	1.79	89.7	2.00	8.27		
Toluene*	<0.050	0.050	07/26/2014	ND	1.78	88.8	2.00	9.26		
Ethylbenzene*	<0.050	0.050	07/26/2014	ND	1.77	88.5	2.00	9.31		
Total Xylenes*	<0.150	0.150	07/26/2014	ND	5.61	93.5	6.00	8.97		
Total BTX	<0.300	0.300	07/26/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/25/2014	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	07/24/2014	ND	194	97.0	200	1.39	
DRO >C10-C28	<10.0	10.0	07/24/2014	ND	203	101	200	3.56	


Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 132 % 63.6-154

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

 Received: 07/22/2014
 Reported: 07/29/2014
 Project Name: PLU #227
 Project Number: NONE GIVEN
 Project Location: BOPCO

 Sampling Date: 07/21/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: SP 3 (SURFACE) (H402223-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2014	ND	1.79	89.7	2.00	8.27	
Toluene*	<0.050	0.050	07/26/2014	ND	1.78	88.8	2.00	9.26	
Ethylbenzene*	<0.050	0.050	07/26/2014	ND	1.77	88.5	2.00	9.31	
Total Xylenes*	<0.150	0.150	07/26/2014	ND	5.61	93.5	6.00	8.97	
Total BTX	<0.300	0.300	07/26/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	31600	16.0	07/25/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	07/24/2014	ND	194	97.0	200	1.39	
DRO >C10-C28	10200	100	07/24/2014	ND	203	101	200	3.56	

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 364 % 63.6-154

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

Received: 07/22/2014
Reported: 07/29/2014
Project Name: PLU #227
Project Number: NONE GIVEN
Project Location: BOPCO

Sampling Date: 07/21/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 3 (1') (H402223-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2014	ND	1.79	89.7	2.00	8.27	
Toluene*	<0.050	0.050	07/26/2014	ND	1.78	88.8	2.00	9.26	
Ethylbenzene*	<0.050	0.050	07/26/2014	ND	1.77	88.5	2.00	9.31	
Total Xylenes*	<0.150	0.150	07/26/2014	ND	5.61	93.5	6.00	8.97	
Total BTEX	<0.300	0.300	07/26/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/25/2014	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	07/24/2014	ND	194	97.0	200	1.39	
DRO >C10-C28	119	10.0	07/24/2014	ND	203	101	200	3.56	


Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 132 % 63.6-154

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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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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Hope S. Moreno For 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.

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 BOPCO

Facility Name PLU #227

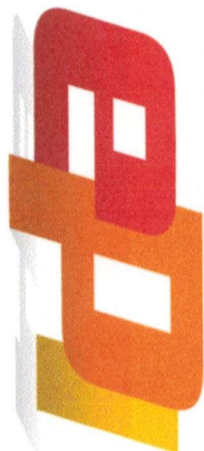
Location UL- P Sec. 30, T24S, R30E

Project Reference

EPI Sampler Name David Robinson

Bill To

ANALYSIS REQUEST



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

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			SAMPLING		BTX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH	
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME									
1410-2223																							
1	SP1 (Surface)	G	1			X				X			21-Jul-14	11:15	X	X	X						
2	SP1 (1')	G	1			X				X			21-Jul-14	11:16	X	X	X						
3	SP2 (Surface)	G	1			X				X			21-Jul-14	11:43	X	X	X						
4	SP2 (1')	G	1			X				X			21-Jul-14	11:44	X	X	X						
5	SP3 (Surface)	G	1			X				X			21-Jul-14	12:05	X	X	X						
6	SP3 (1')	G	1			X				X			21-Jul-14	12:06	X	X	X						
7																							
8																							
9																							
10																							

Sampler Relinquished:

Date: 7/14/14

Received By:

Date: 7-22-14

Received By: (lab staff)

E-mail results to: ddominguezepi@gmail.com & bblevins@basspet.com

Relinquished by:

Date: 7-22-14

Time: 3:30 PM

Sample Cool & Intact

Checked By:

Delivered by:

Date: 7-22-14

Time: 3:30 PM

Sample Cool & Intact

Checked By:

NOTES:

E-mail results to: ddominguezepi@gmail.com & bblevins@basspet.com