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25887



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

January 22, 2013
Daniel Dominguez
Environmental Plus, Inc.
P.O. Box 1558
Eunice, NM 88231

HOBBS OCD
JAN 23 2013
RECEIVED

RE: QUAIL QUEEN #9

Enclosed are the results of analyses for samples received by the laboratory on 01/17/13 16:20.

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.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

30 025 25887

Analytical Results For:

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

 Received: 01/17/2013
 Reported: 01/22/2013
 Project Name: QUAIL QUEEN #9
 Project Number: NONE GIVEN
 Project Location: UL-B SEC. 11. T19S, R34E

 Sampling Date: 01/17/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 (SURFACE) (H300134-01)

BTEX 8021B		mg/kg		Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.228	0.100	01/22/2013	ND	1.94	97.1	2.00	17.4		
Toluene*	2.62	0.100	01/22/2013	ND	1.93	96.6	2.00	16.7		
Ethylbenzene*	3.96	0.100	01/22/2013	ND	1.94	97.0	2.00	17.0		
Total Xylenes*	11.9	0.300	01/22/2013	ND	5.92	98.7	6.00	16.8		
Total BTEX	18.7	0.600	01/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 284 % 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	1360	16.0	01/22/2013	ND	432	108	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	692	200	01/21/2013	ND	179	89.4	200	6.33		
DRO >C10-C28	20900	200	01/21/2013	ND	186	92.8	200	3.57		

Surrogate: 1-Chlorooctane 133 % 65.2-140

Surrogate: 1-Chlorooctadecane 618 % 63.6-154

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* = Accredited Analyte

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 Daniel Dominguez
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 Received: 01/17/2013
 Reported: 01/22/2013
 Project Name: QUAIL QUEEN #9
 Project Number: NONE GIVEN
 Project Location: UL-B SEC. 11. T19S, R34E

 Sampling Date: 01/17/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 (1') (H300134-02)

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	01/22/2013	ND	1.94	97.1	2.00	17.4		
Toluene*	<0.050	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7		
Ethylbenzene*	<0.050	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0		
Total Xylenes*	<0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8		
Total BTEX	<0.300	0.300	01/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 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	208	16.0	01/22/2013	ND	432	108	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	01/21/2013	ND	179	89.4	200	6.33		
DRO >C10-C28	72.7	10.0	01/21/2013	ND	186	92.8	200	3.57		

Surrogate: 1-Chlorooctane 89.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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 Fax To: (505) 394-2601

 Received: 01/17/2013
 Reported: 01/22/2013
 Project Name: QUAIL QUEEN #9
 Project Number: NONE GIVEN
 Project Location: UL-B SEC. 11. T19S, R34E

 Sampling Date: 01/17/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 (1.5') (H300134-03)

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	01/22/2013	ND	1.94	97.1	2.00	17.4		
Toluene*	<0.050	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7		
Ethylbenzene*	<0.050	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0		
Total Xylenes*	<0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8		
Total BTEX	<0.300	0.300	01/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.8 % 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	192	16.0	01/22/2013	ND	432	108	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	01/21/2013	ND	179	89.4	200	6.33		
DRO >C10-C28	27.7	10.0	01/21/2013	ND	186	92.8	200	3.57		

Surrogate: 1-Chlorooctane 85.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.5 % 63.6-154

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 Fax To: (505) 394-2601

 Received: 01/17/2013
 Reported: 01/22/2013
 Project Name: QUAIL QUEEN #9
 Project Number: NONE GIVEN
 Project Location: UL-B SEC. 11. T19S, R34E

 Sampling Date: 01/17/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 (SURFACE) (H300134-04)

BTEX 8021B		mg/kg		Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2013	ND	1.94	97.1	2.00	17.4		
Toluene*	0.054	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7		
Ethylbenzene*	0.175	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0		
Total Xylenes*	0.435	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8		
Total BTEX	0.663	0.300	01/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 127 % 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	272	16.0	01/22/2013	ND	432	108	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	21.6	10.0	01/21/2013	ND	179	89.4	200	6.33		
DRO >C10-C28	1360	10.0	01/21/2013	ND	186	92.8	200	3.57		

Surrogate: 1-Chlorooctane 80.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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 Received: 01/17/2013
 Reported: 01/22/2013
 Project Name: QUAIL QUEEN #9
 Project Number: NONE GIVEN
 Project Location: UL-B SEC. 11. T19S, R34E

 Sampling Date: 01/17/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 (1') (H300134-05)

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	01/22/2013	ND	1.94	97.1	2.00	17.4		
Toluene*	<0.050	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7		
Ethylbenzene*	<0.050	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0		
Total Xylenes*	<0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8		
Total BTEX	<0.300	0.300	01/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 99.3 % 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	64.0	16.0	01/22/2013	ND	432	108	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	01/21/2013	ND	179	89.4	200	6.33		
DRO >C10-C28	32.6	10.0	01/21/2013	ND	186	92.8	200	3.57		

Surrogate: 1-Chlorooctane 75.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.3 % 63.6-154

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

 Received: 01/17/2013
 Reported: 01/22/2013
 Project Name: QUAIL QUEEN #9
 Project Number: NONE GIVEN
 Project Location: UL-B SEC. 11. T19S, R34E

 Sampling Date: 01/17/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 (1.5') (H300134-06)

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	01/22/2013	ND	1.94	97.1	2.00	17.4		
Toluene*	<0.050	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7		
Ethylbenzene*	<0.050	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0		
Total Xylenes*	<0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8		
Total BTEX	<0.300	0.300	01/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 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	80.0	16.0	01/22/2013	ND	432	108	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	01/21/2013	ND	179	89.4	200	6.33		
DRO >C10-C28	<10.0	10.0	01/21/2013	ND	186	92.8	200	3.57		

Surrogate: 1-Chlorooctane 86.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.5 % 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.
- 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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*=Accredited Analyte

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