

30-025-07961

May 05, 2014

HOBBS OCD

BRIAN WALL

MAY 21 2014

LINN OPERATING-HOBBS

2130 W. BENDER

RECEIVED

HOBBS, NM 88240

RE: EAST HOBBS #910

Enclosed are the results of analyses for samples received by the laboratory on 04/29/14 11:15.

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,



Celey D. Keene

Lab Director/Quality Manager

5/21

WILL RESAMPLE
TO VERIFY DROP
FROM 608 - 32
DUE TO COVER
HAVING BEEN
REPLACED PRIOR
TO SAMPLING

Analytical Results For:

LINN OPERATING-HOBBS
BRIAN WALL
2130 W. BENDER
HOBBS NM, 88240
Fax To: (575) 738-1740

Received: 04/29/2014
Reported: 05/05/2014
Project Name: EAST HOBBS #910
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 04/29/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: FINAL SAMPLE (H401273-01)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/30/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: <u>Linn Energy</u>		BILL TO		ANALYSIS REQUEST																								
Project Manager:		P.O. #:																										
Address:		Company:																										
City:	State:	Zip:	Attn:																									
Phone #:	Fax #:	Address:																										
Project #:	Project Owner:		City:																									
Project Name: <u>E. Hobbs Unit #910</u>			State:													Zip:												
Project Location:			Phone #:																									
Sampler Name: <u>David Denton</u>			Fax #:																									
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	GRAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING																		
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
	<u>H401273</u>	<u>1 Final Sample</u>	<u>6</u>	<u>1</u>			<u>✓</u>							<u>4/29</u>	<u>10:00</u>	<u>✓</u>												

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 the client for the 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 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.

Relinquished By: <u>[Signature]</u>	Date: <u>4/29/14</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>11:15</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <u>Sweatt Linn</u>	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>[Signature]</u>		

March 07, 2014

HOBBS OCD

IKE TAVAREZ

MAR 17 2014

TETRA TECH

1910 N. BIG SPRING STREET

MIDLAND, TX 79705

RECEIVED

RE: WELL #910

Enclosed are the results of analyses for samples received by the laboratory on 03/03/14 14:05.

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/ga/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.

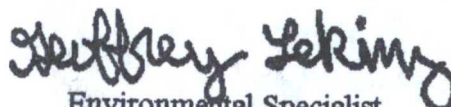
Sincerely,



Celey D. Keene

Lab Director/Quality Manager

SAMPLE DEEPER @ AH-1 & AH-3
FOR CHLORIDES
EXCAVATE TOP 1' @ AH-4


Environmental Specialist
NMOCB-DIST 1
3/17/14

EASA UNIT #910

Analytical Results For:

TETRA TECH
IKE TAVAREZ
1910 N. BIG SPRING STREET
MIDLAND TX, 79705
Fax To: (432) 682-3946

Received: 03/03/2014
Reported: 03/07/2014
Project Name: WELL #910
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 03/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-1 0-1 (H400631-01)

BTX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2014	ND	2.24	112	2.00	0.979		
Toluene*	<0.050	0.050	03/05/2014	ND	2.33	117	2.00	0.332		
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.28	114	2.00	2.39		
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.91	115	6.00	1.92		
Total BTX	<0.300	0.300	03/05/2014	ND						

Surrogate: Dibromofluoromethane 101 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/05/2014	ND	416	104	400	3.92		

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	03/05/2014	ND	205	102	200	6.43		
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	194	97.0	200	9.21		
EXT DRO >C28-C35	<10.0	10.0	03/05/2014	ND						

Surrogate: 1-Chlorooctane 98.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 IKE TAVAREZ
 1910 N. BIG SPRING STREET
 MIDLAND TX, 79705
 Fax To: (432) 682-3946

 Received: 03/03/2014
 Reported: 03/07/2014
 Project Name: WELL #910
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 03/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-1 1-1.5 (H400631-02)

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	03/05/2014	ND	416	104	400	3.92		

Sample ID: AH-1 2-2.5 (H400631-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	03/05/2014	ND	416	104	400	3.92		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 IKE TAVAREZ
 1910 N. BIG SPRING STREET
 MIDLAND TX, 79705
 Fax To: (432) 682-3946

 Received: 03/03/2014
 Reported: 03/07/2014
 Project Name: WELL #910
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 03/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-2 0-1 (H400631-04)

BTEX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2014	ND	2.24	112	2.00	0.979		
Toluene*	<0.050	0.050	03/05/2014	ND	2.33	117	2.00	0.332		
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.28	114	2.00	2.39		
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.91	115	6.00	1.92		
Total BTEX	<0.300	0.300	03/05/2014	ND						

Surrogate: Dibromofluoromethane 96.0 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

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	03/05/2014	ND	416	104	400	3.92		

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	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	194	97.0	200	9.21	
EXT DRO >C28-C35	<10.0	10.0	03/05/2014	ND					

Surrogate: 1-Chlorooctane 96.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
IKE TAVAREZ
1910 N. BIG SPRING STREET
MIDLAND TX, 79705
Fax To: (432) 682-3946

Received: 03/03/2014
Reported: 03/07/2014
Project Name: WELL #910
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 03/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-2 1-1.5 (H400631-05)

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	03/05/2014	ND	416	104	400	3.92	

Sample ID: AH-2 2-2.5 (H400631-06)

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	03/05/2014	ND	416	104	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
IKE TAVAREZ
1910 N. BIG SPRING STREET
MIDLAND TX, 79705
Fax To: (432) 682-3946

Received: 03/03/2014
Reported: 03/07/2014
Project Name: WELL #910
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 03/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-3 0-1 (H400631-07)

BTEX 8260B		mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2014	ND	2.24	112	2.00	0.979		
Toluene*	<0.050	0.050	03/05/2014	ND	2.33	117	2.00	0.332		
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.28	114	2.00	2.39		
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.91	115	6.00	1.92		
Total BTEX	<0.300	0.300	03/05/2014	ND						

Surrogate: Dibromofluoromethane 95.8 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

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	03/05/2014	ND	416	104	400	3.92	

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	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	194	97.0	200	9.21	
EXT DRO >C28-C35	<10.0	10.0	03/05/2014	ND					

Surrogate: 1-Chlorooctane 93.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
IKE TAVAREZ
1910 N. BIG SPRING STREET
MIDLAND TX, 79705
Fax To: (432) 682-3946

Received: 03/03/2014
Reported: 03/07/2014
Project Name: WELL #910
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 03/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-3 1-1.5 (H400631-08)

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	03/05/2014	ND	416	104	400	3.92		

Sample ID: AH-3 2-2.5 (H400631-09)

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	03/05/2014	ND	416	104	400	3.92	

Sample ID: AH-3 3-3.5 (H400631-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	03/05/2014	ND	416	104	400	3.92		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
IKE TAVAREZ
1910 N. BIG SPRING STREET
MIDLAND TX, 79705
Fax To: (432) 682-3946

Received: 03/03/2014
Reported: 03/07/2014
Project Name: WELL #910
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 03/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-4 0-1 (H400631-11)

BTEX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2014	ND	2.24	112	2.00	0.979		
Toluene*	<0.050	0.050	03/05/2014	ND	2.33	117	2.00	0.332		
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.28	114	2.00	2.39		
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.91	115	6.00	1.92		
Total BTEX	<0.300	0.300	03/05/2014	ND						

Surrogate: Dibromofluoromethane 93.9 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 106 % 65.7-141

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	03/05/2014	ND	416	104	400	3.92		

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	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	1480	10.0	03/05/2014	ND	194	97.0	200	9.21	
EXT DRO >C28-C35	1310	10.0	03/05/2014	ND					

Surrogate: 1-Chlorooctane 92.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 IKE TAVAREZ
 1910 N. BIG SPRING STREET
 MIDLAND TX, 79705
 Fax To: (432) 682-3946

 Received: 03/03/2014
 Reported: 03/07/2014
 Project Name: WELL #910
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 03/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-4 1-1.5 (H400631-12)

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	03/05/2014	ND	416	104	400	3.92		
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	03/07/2014	ND	194	97.1	200	8.76		
DRO >C10-C28	70.3	10.0	03/07/2014	ND	232	116	200	7.85		
EXT DRO >C28-C35	77.6	10.0	03/07/2014	ND						
Surrogate: 1-Chlorooctane										
	103 %	65.2-140								
Surrogate: 1-Chlorooctadecane										
	114 %	63.6-154								

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
IKE TAVAREZ
1910 N. BIG SPRING STREET
MIDLAND TX, 79705
Fax To: (432) 682-3946

Received: 03/03/2014
Reported: 03/07/2014
Project Name: WELL #910
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 03/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-5 0-1 (H400631-13)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2014	ND	2.24	112	2.00	0.979		
Toluene*	<0.050	0.050	03/05/2014	ND	2.33	117	2.00	0.332		
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.28	114	2.00	2.39		
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.91	115	6.00	1.92		
Total BTEX	<0.300	0.300	03/05/2014	ND						

Surrogate: Dibromofluoromethane 96.5 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

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	03/05/2014	ND	416	104	400	3.92		

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	03/05/2014	ND	208	104	200	7.01	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	204	102	200	6.86	
EXT DRO >C28-C35	<10.0	10.0	03/05/2014	ND					

Surrogate: 1-Chlorooctane 99.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
IKE TAVAREZ
1910 N. BIG SPRING STREET
MIDLAND TX, 79705
Fax To: (432) 682-3946

Received: 03/03/2014
Reported: 03/07/2014
Project Name: WELL #910
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 03/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-5 1-1.5 (H400631-14)

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	03/05/2014	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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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Celest D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Tetra Tech		BILL TO		ANALYSIS REQUEST																										
Project Manager: Ike TAVAREZ		P.O. #:																												
Address: 4000 N Big Spring		Company: TETRA TECH																												
City: Midland State: TX Zip: 79705		Attn:																												
Phone #: 432-682-4585 Fax #:		Address:																												
Project #:		City:																												
Project Name: Well #910		State: Zip:																												
Project Location: Edley Co, NM		Phone #:																												
Sampler Name: MK/AG		Fax #:																												
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING																			
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME	TPH	BTGA	CHLORIDES												
	H400631																													
	1	AH-1 0-1	G	1			5					X		3-3		X	X	X												
	2	1-1.5																												
	3	2-2.5																												
	4	AH-2 0-1														X	X													
	5	1-1.5																												
	6	2-2.5																												
	7	AH-3 0-1														X	X													
	8	1-1.5																												
	9	2-2.5																												
	10	3-3.5																												

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Relinquished By: <i>[Signature]</i>	Date: 3-3-14	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: 1405		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Run deeper samples if Benzene is greater than 10mg/kg or Total BTGA is greater than 50 mg/kg
	Time:		
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <i>[Signature]</i>	marcus.kujawski@tetratech.com
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Email results to: ike.tavarez@tetratech.com
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>TETRA TECH</u>		BILL TO		ANALYSIS REQUEST																									
Project Manager:		P.O. #:																											
Address:		Company: <u>Tetra Tech</u>																											
City:		Attn:																											
Phone #:		Address:																											
Project #:		City:																											
Project Name: <u>Well #910</u>		State: Zip:																											
Project Location: <u>Edley Co, NM</u>		Phone #:																											
Sampler Name: <u>mk 1A6</u>		Fax #:																											
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.	SAMPLING																			
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	TPH	GTG	CHLORIDES												
	11	AM-4 0-1	6			3					X		3-3		X	X	X												
	12	1-1.5	1																										
	13	2-2.5	1																										
	13 + 14	AM-5 0-1	6												X	X													
	14 + 15	1-1.5	6																										

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 the client for the 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 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.

Relinquished By: <u>[Signature]</u>	Date: <u>5-3-14</u>	Received By: <u>Jodi Henson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>1405</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <u>TPH added on #12. Rush. 3/6/14. CL</u>	
	Time:			
Delivered By: (Circle One)	Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	<u>5.22</u> <input type="checkbox"/> Yes <input type="checkbox"/> No		<u>[Signature]</u> <input type="checkbox"/> Yes <input type="checkbox"/> No	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

March 19, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: EAST HOBBS #910

Enclosed are the results of analyses for samples received by the laboratory on 03/18/14 9:35.

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/ga/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,



Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

 Received: 03/18/2014
 Reported: 03/19/2014
 Project Name: EAST HOBBS #910
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/18/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: #1 (H400807-01)

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	03/19/2014	ND	2.20	110	2.00	0.692		
Toluene*	<0.050	0.050	03/19/2014	ND	2.07	104	2.00	0.762		
Ethylbenzene*	<0.050	0.050	03/19/2014	ND	2.01	101	2.00	1.19		
Total Xylenes*	<0.150	0.150	03/19/2014	ND	5.82	97.0	6.00	0.549		
Total BTEX	<0.300	0.300	03/19/2014	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	432	16.0	03/19/2014	ND	416	104	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	03/19/2014	ND	228	114	200	6.70		
DRO >C10-C28	<10.0	10.0	03/19/2014	ND	225	112	200	1.08		

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

 Received: 03/18/2014
 Reported: 03/19/2014
 Project Name: EAST HOBBS #910
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/18/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: #3 (H400807-02)

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	03/19/2014	ND	2.20	110	2.00	0.692		
Toluene*	<0.050	0.050	03/19/2014	ND	2.07	104	2.00	0.762		
Ethylbenzene*	<0.050	0.050	03/19/2014	ND	2.01	101	2.00	1.19		
Total Xylenes*	<0.150	0.150	03/19/2014	ND	5.82	97.0	6.00	0.549		
Total BTEX	<0.300	0.300	03/19/2014	ND						

Surrogate: 4-Bromofluorobenzene (PII) 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	32.0	16.0	03/19/2014	ND	416	104	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	03/19/2014	ND	228	114	200	6.70		
DRO >C10-C28	<10.0	10.0	03/19/2014	ND	225	112	200	1.08		

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

 Received: 03/18/2014
 Reported: 03/19/2014
 Project Name: EAST HOBBS #910
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/18/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: #4 (H400807-03)

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	03/19/2014	ND	2.20	110	2.00	0.692		
Toluene*	<0.050	0.050	03/19/2014	ND	2.07	104	2.00	0.762		
Ethylbenzene*	<0.050	0.050	03/19/2014	ND	2.01	101	2.00	1.19		
Total Xylenes*	<0.150	0.150	03/19/2014	ND	5.82	97.0	6.00	0.549		
Total BTEX	<0.300	0.300	03/19/2014	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	64.0	16.0	03/19/2014	ND	416	104	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	03/19/2014	ND	228	114	200	6.70		
DRO >C10-C28	<10.0	10.0	03/19/2014	ND	225	112	200	1.08		

Surrogate: 1-Chlorooctane 80.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.5 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

