

30-025-07961

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

May 05, 2014	HOBBS OCD	
BRIAN WALL	MAY 2 1 2014	
LINN OPERATING-HOBBS	MAI 21 20.7	
2130 W. BENDER	RECEIVED	5/21
HOBBS, NM 88240		
		NILL RESAMPLE
RE: EAST HOBBS #910		FROM 608 - 32
Enclosed are the results of analyses for	samples received by the laboratory on 04/29/14 11:15.	DUE TO COVER HAVING BEEN
Cardinal Laboratories is accredited through	ugh Texas NELAP under certificate number T104704398-13-5. Accreditation	n
	water and solid and chemical materials. All accredited analytes are denoted	
an asterisk (*). For a complete list of a www.tceg.texas.gov/field/ga/lab accred	ccredited analytes and matrices visit the TCEQ website at d certif.html.	TO SAMPLMY

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

04/29/2014	Sampling Date:	04/29/2014
05/05/2014	Sampling Type:	Soil
EAST HOBBS #910	Sampling Condition:	** (See Notes)
NONE GIVEN	Sample Received By:	Jodi Henson
NOT GIVEN		
	05/05/2014 EAST HOBBS #910 NONE GIVEN	05/05/2014Sampling Type:EAST HOBBS #910Sampling Condition:NONE GIVENSample Received By:

Sample ID: FINAL SAMPLE (H401273-01)

Chloride, SM4500Cl-B	mg/kg		Analyze	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	

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*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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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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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX (575) 393-247	76																			
Company Name:	Linn Eneroxy								BI	LL TO					ANA	LYSI	S RE	QUE	ST		
Project Manager							P.0	. #:													
Address:							Cor	npan	iy:												
City:	State:	Zip:		_			Attn:														
Phone #:	Fax #:						Address:														
Project #:	Project Owne	r:					City	<i>ı</i> :													
Project Name:	E. Hobbs Unit #	±9	10)			Stat	te:		Zip:											
Project Location			-				Pho	one #	:												
Sampler Name:	David Dentor	1	_			-	Fax	-	-					1.1							
FOR LAB USE ONLY					MATRI	X	-	PRES	ERV.	SAMPL	ING							1			
Lab I.D. H401273 1	Sample I.D. Final Sample	OGRAB OR (C)OMP	# CONTAINERS	WASTEWATER	OIL SOIL	SLUDGE	OTHER :	ACID/BASE:	OTHER:	DATE 429	TIME	- OV >									
analyses. All claims including	Time: Date: Time: (Circle One)	deemed v g without Cardinal, r Rec	waived u Imitation regardles Reiver	d By:	ade in writ iss interrup ether such	ing and itions, to claim is	on	ed by Ci use, or I d upon a	ardinal v oss of p any of the DO HECK	within 30 days after rofits incurred by	er completion of t client, its subsidia	the appl aries, se, sult: lt: S:		No No		Phone Fax #:	#:				

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

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

March 07, 2014

IKE TAVAREZ TETRA TECH 1910 N. BIG SPRING STREET MIDLAND, TX 79705 HOBBS OCD MAR 1 7 2014 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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

Cardinal Laboratories is accreditated 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)

CARDINAL

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. Keine

Celey D. Keene Lab Director/Quality Manager

EHSAUNIT # 910

SAMRE DEEPER () AH-1&AH-3 FOR CHLORIDES KXLAVATE TOP I'GIAH-4

Environmental Specialist NMOCD-RIST I

. : ...



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

Received:	03/03/2014	Sampling Date:	03/03/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	WELL #910	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

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

BTEX 8260B	mg/	/kg	Analyze	d 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	101	% 61.3-14	2						
Surrogate: Toluene-d8	105	71.3-12	9						
Surrogate: 4-Bromofluorobenzene	105	65.7-14	1						
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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	102	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/03/2014	Sampling Date:	03/03/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	WELL #910	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

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

Chloride, SM4500CI-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, SM4500CI-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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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/03/2014	Sampling Date:	03/03/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	WELL #910	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

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

BTEX 8260B	mg,	/kg	Analyze	d 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	% 61.3-14	12						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102	% 65.7-14	11						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	<16.0	16.0	03/05/2014	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	100	% 63.6-15	54						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/03/2014	Sampling Date:	03/03/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	WELL #910	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

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



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

Received:	03/03/2014	Sampling Date:	03/03/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	WELL #910	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

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

BTEX 8260B	mg	/kg	Analyze	d 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	% 61.3-14	2						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 14



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

Received:	03/03/2014	Sampling Date:	03/03/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	WELL #910	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

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

Chloride, SM4500CI-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, SM4500CI-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, SM4500CI-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	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	03/03/2014	Sampling Date:	03/03/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	WELL #910	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

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

Result <0.050 <0.050 <0.050	Reporting Limit 0.050 0.050 0.050	Analyzed 03/05/2014 03/05/2014	Method Blank ND	BS 2.24	% Recovery	True Value QC 2.00	RPD	Qualifier
<0.050 <0.050	0.050			2.24	112	2.00		
<0.050		03/05/2014				2.00	0.979	
	0.050		ND	2.33	117	2.00	0.332	
<0.150	0.050	03/05/2014	ND	2.28	114	2.00	2.39	
<0.150	0.150	03/05/2014	ND	6.91	115	6.00	1.92	
<0.300	0.300	03/05/2014	ND					
93.9	% 61.3-142	2						
104 9	71.3-12	9						
106 9	65.7-14	1						
mg/	kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	03/05/2014	ND	416	104	400	3.92	
mg/	kg	Analyze	d By: ms					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	03/05/2014	ND	205	102	200	6.43	
1480	10.0	03/05/2014	ND	194	97.0	200	9.21	
1310	10.0	03/05/2014	ND					
92.4	% 65.2-14	0						
122 9	63.6-15	4						
	93.9 9 104 9 106 9 mg/ Result <16.0 mg/ Result <10.0 1480 1310 92.4 9	<0.300 0.300 93.9 % 61.3-14. 104 % 71.3-129 106 % 65.7-14. mg/kg Result Reporting Limit <16.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 1480 10.0 1310 10.0 92.4 % 65.2-14.	<0.300 0.300 03/05/2014 93.9 % 61.3-142 104 % 71.3-129 106 % 65.7-141 106 % 65.7-141 mg/kg Analyzed <16.0	< 0.300 03/05/2014 ND 93.9 % 61.3-142 104 % 71.3-129 106 % 65.7-141 mg/kg Analyzed Method Blank <16.0	<0.300 03/05/2014 ND 93.9 % 61.3-142	<0.300 03/05/2014 ND 93.9 % 61.3-142	<0.300 03/05/2014 ND 93.9 % 61.3-142 104 % 71.3-129 106 % 65.7-141 mg/kg Analyzed Method Blank BS % Recovery True Value QC <16.0	<0.300 03/05/2014 ND 93.9 % 61.3-142 104 % 71.3-129 106 % 65.7-141 mg/kg Analyzed Method Blank BS % Recovery True Value QC RPD cl.6.0 16.0 03/05/2014 ND 416 104 400 3.92 mg/kg Analyzed Method Blank BS % Recovery True Value QC RPD cl.6.0 16.0 03/05/2014 ND 416 104 400 3.92 mg/kg Analyzed Method Blank BS % Recovery True Value QC RPD cl.0.0 16.0 03/05/2014 ND 205 102 200 6.43 stand Result Reporting Limit Analyzed ND 194 97.0 200 9.21 1310 10.0 03/05/2014 ND 194 97.0 200 9.21 g2.4 % 65.2-140 ND 194 97.0 200 9.21

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/03/2014	Sampling Date:	03/03/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	WELL #910	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

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

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride <		16.0	03/05/2014	ND	416	104	400	3.92		
TPH 8015M	mg/	/kg	Analyze	d 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		
DR0 >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		0							
Surrogate: 1-Chlorooctadecane	114 9	63.6-15	4							

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/03/2014	Sampling Date:	03/03/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	WELL #910	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

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

BTEX 8260B	mg	/kg	Analyze	d 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	% 61.3-14	2						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100 % 63.6-154		4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/03/2014	Sampling Date:	03/03/2014	
Reported:	03/07/2014	Sampling Type:	Soil	
Project Name:	WELL #910	Sampling Condition:	Cool & Intact	
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson	
Project Location:	EDDY COUNTY, NM			

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

Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	<mark>416</mark>	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Page 11 of 14



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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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 12 of 14



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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roject #:			Project Owner	. 1	in	(21.0	44	c	ity:															
roject Name:	Well \$	910								tate	:		Zip:												
Project Location: Edula Co, Nr.								P	hon	e #:															
ampler Name									F	ax #	:														
FOR LAB USE ONLY						-	MAT	RIX	-	P	RESE	RV.	SAMPL	ING											
				(G)RAB OR (C)OMP	ERS	ATER					-						1000	100							
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Page 13 of 14



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	ompany Name: TETRA TERH							BILL TO												AN	AL	YSI	S RE	QUI	EST	Г		-	
Project Manage	r:								P.0). #:						Т				T	Τ				Т				
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Project #:		Project Owne	r:						City	:																			
Project Name:	well #910								Sta	te:		1	Zip:																
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Sampler Name:	mik IA6		_	-					Fax	#:																			
FOR LAB USE ONLY						MA	TRI	X		PRE	SER	tV.	SAMPL	ING				1											
Lab I.D.	Sample I.	.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Hall		OTEX	CHLAND											
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† 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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 6



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

Received:	03/18/2014	Sampling Date:	03/18/2014
Reported:	03/19/2014	Sampling Type:	Soil
Project Name:	EAST HOBBS #910	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: #1 (H400807-01)

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BTEX 8021B	mg/	kg	Analyze	ed 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 (PIL	102 9	89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed 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	Analyze	ed 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 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	113 9	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/18/2014	Sampling Date:	03/18/2014
Reported:	03/19/2014	Sampling Type:	Soil
Project Name:	EAST HOBBS #910	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: #3 (H400807-02)

BTEX 8021B	mg/	kg	Analyze	d 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 (PIL	103 9	89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 9	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/18/2014	Sampling Date:	03/18/2014
Reported:	03/19/2014	Sampling Type:	Soil
Project Name:	EAST HOBBS #910	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: #4 (H400807-03)

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BTEX 8021B	mg/	kg	Analyze	d 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 (PIL	102 9	89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	65.2-14	0						
Surrogate: 1-Chlorooctadecane	84.5	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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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 SM4500CI-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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	Linn Energia		1										ANALYSIS REQUEST						
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