

Excavation Map

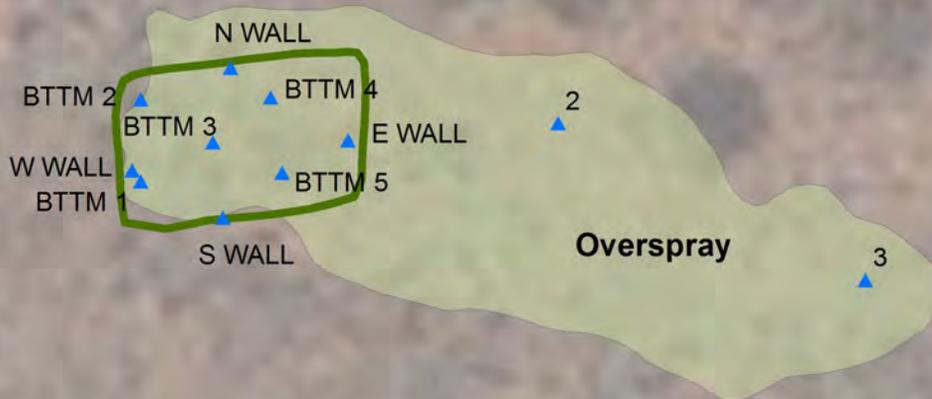
	CI-	PID	GRO	DRO	B	T	E	X	BTEX
NORTH WALL	112	2.5	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
EAST WALL	512	1.2	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
SOUTH WALL	1040	3.5	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
WEST WALL	96	4.4	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

Point 2

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	144	3.8	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

Point 3

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	<16	1.6	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3



	CI-	PID
BOTTOM 1	4255	3.8
BOTTOM 2	4096	4.6
BOTTOM 3	282	1.2
BOTTOM 4	88	3.8
BOTTOM 5	84	1.3
COMPOSITE	94	2.9

CI- FIELD DATA

CI- LAB DATA

Legend

- ▲ SAMPLE POINT
- EXCAVATION @ 4 FT
- STAIN (3,799 SQ FT)

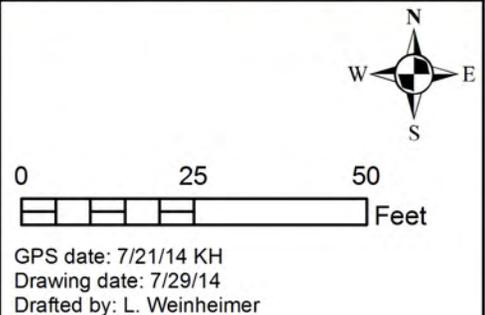
Landowner: BLM
DGW: NONE

Source: Esri, DigitalGlobe, GeoEye, IGN, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, swisstopo, and the GIS User Community



APACHE E.L. FEDERAL #008

UL P SECTION 21
T-17-S R-30-E
EDDY COUNTY, NM





July 10, 2014

BRUCE BAKER
APACHE - EUNICE
P. O. BOX 1849
EUNICE, NM 88231

RE: E. L. FEDERAL #8

Enclosed are the results of analyses for samples received by the laboratory on 07/03/14 16:45.

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 "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 APACHE - EUNICE
 BRUCE BAKER
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

Received:	07/03/2014	Sampling Date:	07/03/2014
Reported:	07/10/2014	Sampling Type:	Soil
Project Name:	E. L. FEDERAL #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NORTH WALL (H402042-01)

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	07/08/2014	ND	1.85	92.6	2.00	7.12	
Toluene*	<0.050	0.050	07/08/2014	ND	1.94	97.2	2.00	7.57	
Ethylbenzene*	<0.050	0.050	07/08/2014	ND	1.72	86.2	2.00	8.12	
Total Xylenes*	<0.150	0.150	07/08/2014	ND	5.35	89.2	6.00	7.60	
Total BTEX	<0.300	0.300	07/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	112	16.0	07/09/2014	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	07/08/2014	ND	190	95.1	200	0.320	
DRO >C10-C28	<10.0	10.0	07/08/2014	ND	199	99.7	200	4.31	

Surrogate: 1-Chlorooctane 114 % 65.2-140
Surrogate: 1-Chlorooctadecane 133 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 APACHE - EUNICE
 BRUCE BAKER
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

Received:	07/03/2014	Sampling Date:	07/03/2014
Reported:	07/10/2014	Sampling Type:	Soil
Project Name:	E. L. FEDERAL #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: EAST WALL (H402042-02)

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	07/08/2014	ND	1.85	92.6	2.00	7.12		
Toluene*	<0.050	0.050	07/08/2014	ND	1.94	97.2	2.00	7.57		
Ethylbenzene*	<0.050	0.050	07/08/2014	ND	1.72	86.2	2.00	8.12		
Total Xylenes*	<0.150	0.150	07/08/2014	ND	5.35	89.2	6.00	7.60		
Total BTEX	<0.300	0.300	07/08/2014	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	512	16.0	07/09/2014	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	07/08/2014	ND	190	95.1	200	0.320		
DRO >C10-C28	<10.0	10.0	07/08/2014	ND	199	99.7	200	4.31		

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 133 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 APACHE - EUNICE
 BRUCE BAKER
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

Received:	07/03/2014	Sampling Date:	07/03/2014
Reported:	07/10/2014	Sampling Type:	Soil
Project Name:	E. L. FEDERAL #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SOUTH WALL (H402042-03)

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	07/08/2014	ND	1.85	92.6	2.00	7.12	
Toluene*	<0.050	0.050	07/08/2014	ND	1.94	97.2	2.00	7.57	
Ethylbenzene*	<0.050	0.050	07/08/2014	ND	1.72	86.2	2.00	8.12	
Total Xylenes*	<0.150	0.150	07/08/2014	ND	5.35	89.2	6.00	7.60	
Total BTEX	<0.300	0.300	07/08/2014	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	1040	16.0	07/09/2014	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	07/08/2014	ND	190	95.1	200	0.320	
DRO >C10-C28	<10.0	10.0	07/08/2014	ND	199	99.7	200	4.31	

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 135 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 APACHE - EUNICE
 BRUCE BAKER
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

Received:	07/03/2014	Sampling Date:	07/03/2014
Reported:	07/10/2014	Sampling Type:	Soil
Project Name:	E. L. FEDERAL #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: WEST WALL (H402042-04)

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	07/08/2014	ND	1.85	92.6	2.00	7.12	
Toluene*	<0.050	0.050	07/08/2014	ND	1.94	97.2	2.00	7.57	
Ethylbenzene*	<0.050	0.050	07/08/2014	ND	1.72	86.2	2.00	8.12	
Total Xylenes*	<0.150	0.150	07/08/2014	ND	5.35	89.2	6.00	7.60	
Total BTEX	<0.300	0.300	07/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500CI-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	07/09/2014	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	07/08/2014	ND	190	95.1	200	0.320	
DRO >C10-C28	<10.0	10.0	07/08/2014	ND	199	99.7	200	4.31	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 132 % 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



Celey D. Keene, Lab Director/Quality Manager



July 28, 2014

BRUCE BAKER
APACHE - EUNICE
P. O. BOX 1849
EUNICE, NM 88231

RE: E. L. FEDERAL #8

Enclosed are the results of analyses for samples received by the laboratory on 07/21/14 16:10.

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:

 APACHE - EUNICE
 BRUCE BAKER
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

Received:	07/21/2014	Sampling Date:	07/21/2014
Reported:	07/28/2014	Sampling Type:	Soil
Project Name:	E. L. FEDERAL #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ SURFACE (H402212-01)

BTEX 8021B		mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24		
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842		
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33		
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11		
Total BTEX	<0.300	0.300	07/25/2014	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	144	16.0	07/23/2014	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	192	96.1	200	8.16		
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	208	104	200	6.40		

Surrogate: 1-Chlorooctane 110 % 65.2-140
Surrogate: 1-Chlorooctadecane 127 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 APACHE - EUNICE
 BRUCE BAKER
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

Received:	07/21/2014	Sampling Date:	07/21/2014
Reported:	07/28/2014	Sampling Type:	Soil
Project Name:	E. L. FEDERAL #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 @ SURFACE (H402212-02)

BTEX 8021B		mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24		
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842		
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33		
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11		
Total BTEX	<0.300	0.300	07/25/2014	ND						

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

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	07/23/2014	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	192	96.1	200	8.16		
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	208	104	200	6.40		

Surrogate: 1-Chlorooctane 126 % 65.2-140

Surrogate: 1-Chlorooctadecane 138 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Hope S. Moreno For 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



Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: APachp		BILL TO		ANALYSIS REQUEST																																
Project Manager: Duce DeKer		P.O. #:		<table border="1"> <tr> <td rowspan="8">Chlorides</td> <td rowspan="8">TPH 8015 M</td> <td rowspan="8">BTEX</td> <td rowspan="8">Texas TPH</td> <td rowspan="8">Complete Cations/Anions</td> <td rowspan="8">TDS</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>										Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS																	
Chlorides	TPH 8015 M	BTEX	Texas TPH																	Complete Cations/Anions	TDS															
																						Address:		Company:												
																						City: Hobbs State: NM Zip: 88240		Attn:												
																						Phone #: Fax #:		Address:												
																						Project #: Project Owner:		City:												
																						Project Name:		State: Zip:												
																						Project Location: E.L. Fed. # 8		Phone #:												
				Sampler Name: Kyle Humphrey		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																						
H4D2212	1 pt. 2 @ Surface	6	1			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		7-21-14	9:00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
	2 pt. 3 @ Surface	6	1			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		7-21-14	9:05	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			

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Relinquished By: Kyle Humphrey	Date: 7/21/14	Received By: Jodi Benson	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 4:10		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Larry DeKer @ apachp corp.com	
	Time:		email results Knorman@rice-ecs.com	
Delivered By: (Circle One)			Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com;	
Sampler - UPS - Bus - Other:			Lweinheimer@rice-ecs.com	
			Khumphrey@rice-ecs.com	
			sedwards@rice-ecs.com, lflores@rice-ecs.com	
		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) JH	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54

Apache E.L. Federal #8

Unit Letter P, Section 21, T17S, R30E



Source of release

4/9/14



Initial release area, facing northeast

4/9/14



Initial release area, facing south

4/9/14



Sampling release area

4/9/14



Installing a vertical, facing northeast 6/27/14



Excavating to 4 ft bgs, facing south 7/2/14



Exporting soil, facing southwest 7/2/14



Excavation to 4 ft bgs completed, facing west 7/23/14