

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19-15-29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Frontier Field Services, LLC	Contact	John Prentiss
Address	65 Mercado Street, Suite 250, Durango, CO 81301	Telephone No.	575-676-3528
Facility Name	Anderson Ranch Discharge Line - #1	Facility Type	Condensate transport line
Surface Owner	Frontier Field Services, LLC	Mineral Owner	
		API No.	N/A

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	14	16	32					Lea

Latitude 32.936766 N Longitude -103.734009 W

NATURE OF RELEASE

Type of Release	Historic LOPC of condensate from buried pipeline	Volume of Release	Estimated 20bbl subsurface	Volume Recovered:	Excavation underway.
Source of Release	Historic pinhole leak discovered in buried heavy condensate pipeline	Date and Hour of Occurrence	Historic	Date and Hour of Discovery	1/30/15
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Tomáš Oberding - NMOCD		
By Whom?	Greg Busch - EHS Technician III	Date and Hour	1/30/15 @ 16:08		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	RECEIVED		
If a Watercourse was Impacted, Describe Fully.*	N/A	By OCD; Dr. Oberding at 11:01 am, Apr 14, 2015			

Describe Cause of Problem and Remedial Action Taken.*


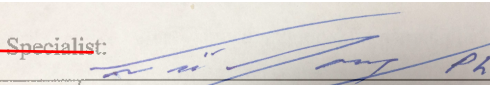
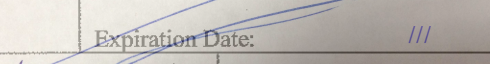
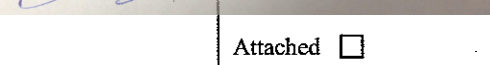
On 1/30/2015 Frontier Field Services discovered a historic release along the Anderson Ranch Pipeline. Frontier estimated the release to exceed 5bbl and prior notifications to/from NMOCD w/instructions, was given and followed.

Excavation commenced to delineate and remove contaminated soils and to restore integrity of the pipeline.

Describe Area Affected and Cleanup Action Taken.*

Approximately 1029 yd³ have been excavated from the area surrounding the pipeline. The excavated material was transported to R-360 for disposal on 2/17/15 to 3/18/15. Analytical samples were taken on 3/16-23/15, to demonstrate Chlorides, TPH, BTEX, and Benzene levels. A 20mil liner was placed under the pipeline for added protection. The area has been backfilled with clean soil. The completion date is 3/24-26/15.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Harley Everhart		Hydrologist	
Title: EHS Technician III		Approved by Environmental Specialist: 	
E-mail Address: heverhart@akaenergy.com		Approval Date: 04/14/2015	Expiration Date: 
Date: 04/10/2015 Phone: 575-513-4922		Conditions of Approval: 	Attached <input type="checkbox"/> IRP-3543

* Attach Additional Sheets If Necessary



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

March 20, 2015

HARLEY EVERHART

FRONTIER FIELD SERVICES

4200 SKELLY DRIVE, SUITE 700

TULSA, OK 74135

RE: ANDERSON RANCH REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/16/15 11:50.

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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

FRONTIER FIELD SERVICES
HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	03/16/2015	Sampling Date:	03/16/2015
Reported:	03/20/2015	Sampling Type:	Soil
Project Name:	ANDERSON RANCH REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ANDERSON RANCH		

Sample ID: AR#4-01 (H500713-01)

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	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	0.217	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	0.139	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	2.50	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTX	2.85	0.300	03/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/18/2015	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	93.1	10.0	03/18/2015	ND	200	100	200	0.434	
DRO >C10-C28	4970	10.0	03/18/2015	ND	213	106	200	1.78	

Surrogate: 1-Chlorooctane 118 % 47.2-157

Surrogate: 1-Chlorooctadecane 154 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	03/16/2015	Sampling Date:	03/16/2015
Reported:	03/20/2015	Sampling Type:	Soil
Project Name:	ANDERSON RANCH REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ANDERSON RANCH		

Sample ID: AR#4-02 (H500713-02)

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	03/19/2015	ND	2.17	108	2.00	2.16		
Toluene*	0.318	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782		
Ethylbenzene*	0.383	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69		
Total Xylenes*	2.94	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86		
Total BTX	3.64	0.300	03/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/18/2015	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	119	10.0	03/18/2015	ND	200	100	200	0.434		
DRO >C10-C28	5870	10.0	03/18/2015	ND	213	106	200	1.78		

Surrogate: 1-Chlorooctane 126 % 47.2-157

Surrogate: 1-Chlorooctadecane 152 % 52.1-176

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4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	03/16/2015	Sampling Date:	03/16/2015
Reported:	03/20/2015	Sampling Type:	Soil
Project Name:	ANDERSON RANCH REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ANDERSON RANCH		

Sample ID: AR#4-03 (H500713-03)

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	03/19/2015	ND	2.17	108	2.00	2.16		
Toluene*	0.209	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782		
Ethylbenzene*	0.211	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69		
Total Xylenes*	2.29	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86		
Total BTX	2.71	0.300	03/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 146 % 61-154

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	03/18/2015	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	107	10.0	03/18/2015	ND	200	100	200	0.434		
DRO >C10-C28	4940	10.0	03/18/2015	ND	213	106	200	1.78		

Surrogate: 1-Chlorooctane 124 % 47.2-157

Surrogate: 1-Chlorooctadecane 142 % 52.1-176

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Fax To: (575) 676-2401

Received:	03/16/2015	Sampling Date:	03/16/2015
Reported:	03/20/2015	Sampling Type:	Soil
Project Name:	ANDERSON RANCH REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ANDERSON RANCH		

Sample ID: AR#4-04 (H500713-04)

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	03/19/2015	ND	2.17	108	2.00	2.16		
Toluene*	0.149	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782		
Ethylbenzene*	0.092	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69		
Total Xylenes*	1.56	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86		
Total BTX	1.80	0.300	03/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 61-154

Chloride, SM4500CI-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	03/18/2015	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	61.0	10.0	03/18/2015	ND	200	100	200	0.434		
DRO >C10-C28	3020	10.0	03/18/2015	ND	213	106	200	1.78		

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 122 % 52.1-176

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4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	03/16/2015	Sampling Date:	03/16/2015
Reported:	03/20/2015	Sampling Type:	Soil
Project Name:	ANDERSON RANCH REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ANDERSON RANCH		

Sample ID: AR#5-01 (H500713-05)

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	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	<0.050	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	<0.050	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	<0.150	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTX	<0.300	0.300	03/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 61-154

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	03/18/2015	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	74.0	10.0	03/18/2015	ND	200	100	200	0.434	
DRO >C10-C28	7360	10.0	03/18/2015	ND	213	106	200	1.78	

Surrogate: 1-Chlorooctane 129 % 47.2-157

Surrogate: 1-Chlorooctadecane 171 % 52.1-176

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Analytical Results For:

FRONTIER FIELD SERVICES
HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	03/16/2015	Sampling Date:	03/16/2015
Reported:	03/20/2015	Sampling Type:	Soil
Project Name:	ANDERSON RANCH REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ANDERSON RANCH		

Sample ID: AR#5-02 (H500713-06)

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	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	0.222	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	0.085	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	0.908	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTEX	1.21	0.300	03/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 61-154

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	03/18/2015	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	45.3	10.0	03/18/2015	ND	200	100	200	0.434	
DRO >C10-C28	6820	10.0	03/18/2015	ND	213	106	200	1.78	

Surrogate: 1-Chlorooctane 109 % 47.2-157

Surrogate: 1-Chlorooctadecane 167 % 52.1-176

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Analytical Results For:

FRONTIER FIELD SERVICES
HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	03/16/2015	Sampling Date:	03/16/2015
Reported:	03/20/2015	Sampling Type:	Soil
Project Name:	ANDERSON RANCH REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ANDERSON RANCH		

Sample ID: AR#5-03 (H500713-07)

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	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	<0.050	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	<0.050	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	<0.150	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTX	<0.300	0.300	03/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/18/2015	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	03/18/2015	ND	200	99.8	200	4.57	
DRO >C10-C28	2170	10.0	03/18/2015	ND	213	106	200	2.49	

Surrogate: 1-Chlorooctane 96.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 118 % 52.1-176

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Analytical Results For:

FRONTIER FIELD SERVICES
HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	03/16/2015	Sampling Date:	03/16/2015
Reported:	03/20/2015	Sampling Type:	Soil
Project Name:	ANDERSON RANCH REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ANDERSON RANCH		

Sample ID: AR#9-01 (H500713-08)

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	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	<0.050	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	<0.050	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	<0.150	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTX	<0.300	0.300	03/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	03/18/2015	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	03/18/2015	ND	200	99.8	200	4.57	
DRO >C10-C28	77.5	10.0	03/18/2015	ND	213	106	200	2.49	

Surrogate: 1-Chlorooctane 90.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 86.7 % 52.1-176

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

FRONTIER FIELD SERVICES
HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	03/16/2015	Sampling Date:	03/16/2015
Reported:	03/20/2015	Sampling Type:	Soil
Project Name:	ANDERSON RANCH REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ANDERSON RANCH		

Sample ID: AR#9-02 (H500713-09)

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	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	<0.050	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	<0.050	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	<0.150	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTX	<0.300	0.300	03/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	03/18/2015	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	03/18/2015	ND	200	99.8	200	4.57	
DRO >C10-C28	858	10.0	03/18/2015	ND	213	106	200	2.49	

Surrogate: 1-Chlorooctane 92.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.0 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

FRONTIER FIELD SERVICES
HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	03/16/2015	Sampling Date:	03/16/2015
Reported:	03/20/2015	Sampling Type:	Soil
Project Name:	ANDERSON RANCH REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ANDERSON RANCH		

Sample ID: AR#9-03 (H500713-10)

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	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	<0.050	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	<0.050	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	<0.150	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTX	<0.300	0.300	03/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

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	03/18/2015	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	03/18/2015	ND	200	99.8	200	4.57	
DRO >C10-C28	672	10.0	03/18/2015	ND	213	106	200	2.49	

Surrogate: 1-Chlorooctane 97.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.2 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

FRONTIER FIELD SERVICES
HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	03/16/2015	Sampling Date:	03/16/2015
Reported:	03/20/2015	Sampling Type:	Soil
Project Name:	ANDERSON RANCH REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ANDERSON RANCH		

Sample ID: AR#9-04 (H500713-11)

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	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	<0.050	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	<0.050	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	<0.150	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTX	<0.300	0.300	03/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	03/18/2015	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	03/18/2015	ND	200	99.8	200	4.57	
DRO >C10-C28	256	10.0	03/18/2015	ND	213	106	200	2.49	

Surrogate: 1-Chlorooctane 92.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.9 % 52.1-176

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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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Celey D. Keene, Lab Director/Quality Manager



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

Page 15 of 15

Anderson Ranch Pipeline Leak #4
Date 1/29/2015

N 32.936766
W -103.734009

Section	14
Town	16
Range	32



Soil Remediated ~448 Cubic Yards



Laying Plastic



Completed 3/24/15

Anderson Ranch # 4

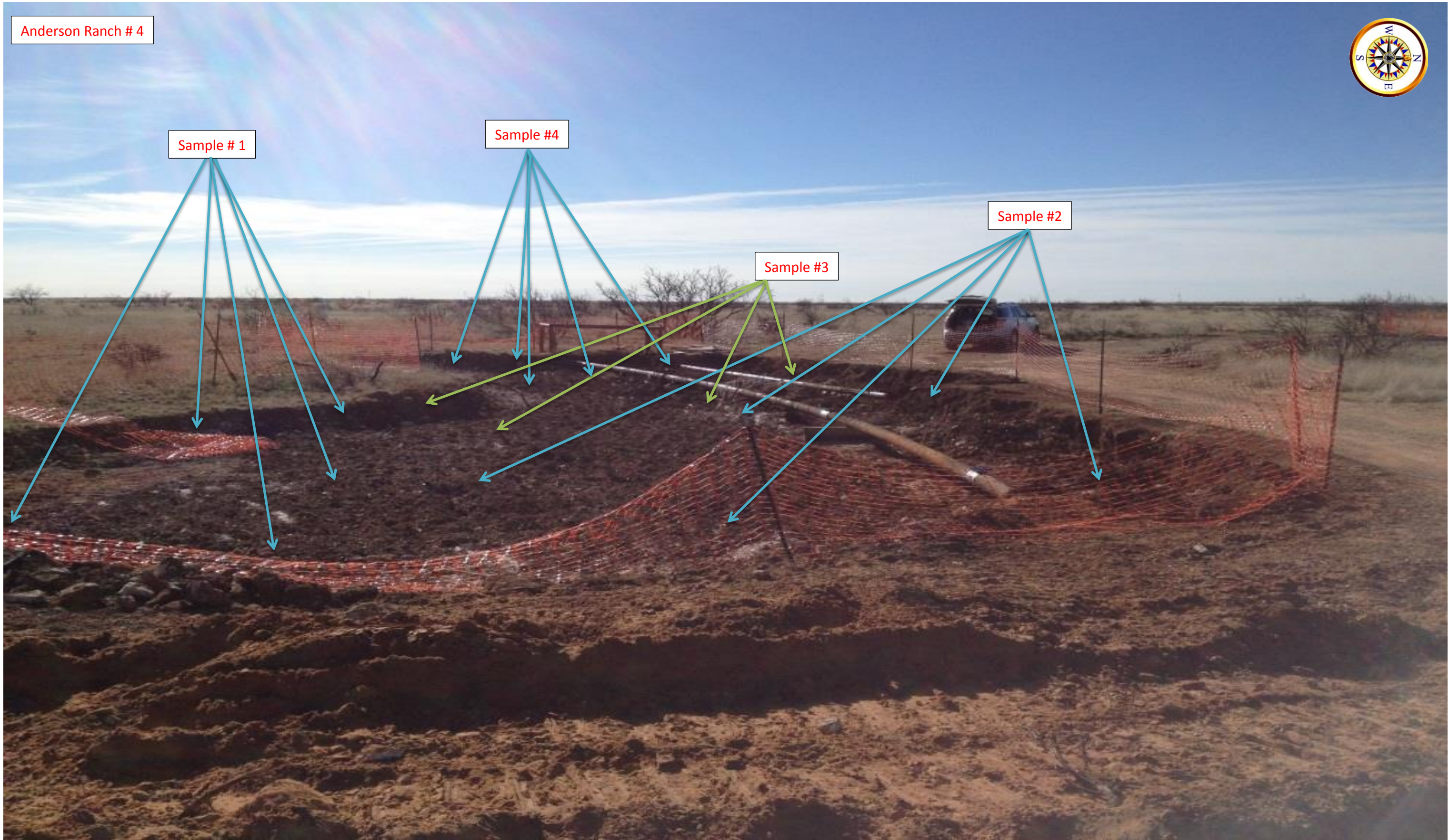


Sample # 1

Sample #4

Sample #3

Sample #2



Anderson Ranch Pipeline Leak #5
Date 1/29/2015

N 32.936338
W -103.734124

Section	14
Town	16
Range	32



Soil Remediated ~314 Cubic Yards



Completed 3/24/15

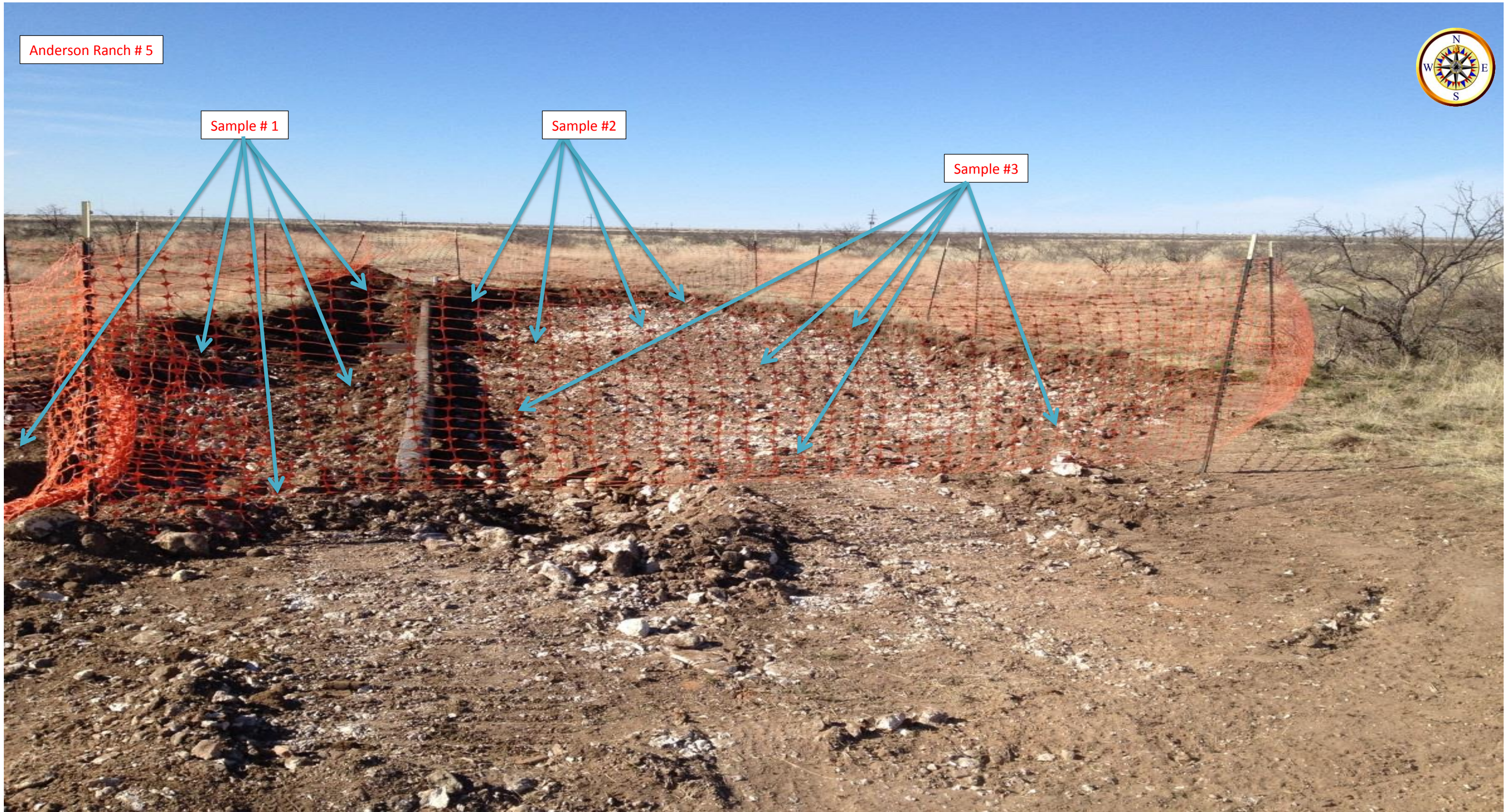
Anderson Ranch # 5



Sample # 1

Sample #2

Sample #3



Anderson Ranch Pipeline Leak #6
Date 1/29/15

N 32.925769
W -103.740254

Section	14
Town	16
Range	32



Soil Remediated ~167 Cubic Yards



Completed 3/26/15

Anderson Ranch # 6



Sample #2

Sample # 1

Sample # 3





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

March 26, 2015

HARLEY EVERHART

FRONTIER FIELD SERVICES

4200 SKELLY DRIVE, SUITE 700

TULSA, OK 74135

RE: ANDERSON RANCH REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/23/15 10:00.

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

Analytical Results For:

FRONTIER FIELD SERVICES
HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	03/23/2015	Sampling Date:	03/23/2015
Reported:	03/26/2015	Sampling Type:	Soil
Project Name:	ANDERSON RANCH REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	AR #6	Sample Received By:	Celey D. Keene
Project Location:	ANDERSON RANCH		

Sample ID: AR #6 - #1 (H500768-01)

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	03/24/2015	ND	1.93	96.3	2.00	11.0	
Toluene*	<0.050	0.050	03/24/2015	ND	1.78	88.9	2.00	10.5	
Ethylbenzene*	<0.050	0.050	03/24/2015	ND	1.70	84.9	2.00	13.0	
Total Xylenes*	<0.150	0.150	03/24/2015	ND	5.10	84.9	6.00	13.9	
Total BTX	<0.300	0.300	03/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 61-154

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	03/24/2015	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	03/24/2015	ND	206	103	200	1.02	
DRO >C10-C28	4470	10.0	03/24/2015	ND	224	112	200	2.38	

Surrogate: 1-Chlorooctane 110 % 47.2-157

Surrogate: 1-Chlorooctadecane 163 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

FRONTIER FIELD SERVICES
HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	03/23/2015	Sampling Date:	03/23/2015
Reported:	03/26/2015	Sampling Type:	Soil
Project Name:	ANDERSON RANCH REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	AR #6	Sample Received By:	Celey D. Keene
Project Location:	ANDERSON RANCH		

Sample ID: AR #6 - #2 (H500768-02)

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	03/24/2015	ND	1.93	96.3	2.00	11.0		
Toluene*	<0.050	0.050	03/24/2015	ND	1.78	88.9	2.00	10.5		
Ethylbenzene*	<0.050	0.050	03/24/2015	ND	1.70	84.9	2.00	13.0		
Total Xylenes*	<0.150	0.150	03/24/2015	ND	5.10	84.9	6.00	13.9		
Total BTEx	<0.300	0.300	03/24/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 61-154

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	03/24/2015	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	03/24/2015	ND	206	103	200	1.02	
DRO >C10-C28	2660	10.0	03/24/2015	ND	224	112	200	2.38	

Surrogate: 1-Chlorooctane 115 % 47.2-157

Surrogate: 1-Chlorooctadecane 145 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

FRONTIER FIELD SERVICES
HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	03/23/2015	Sampling Date:	03/23/2015
Reported:	03/26/2015	Sampling Type:	Soil
Project Name:	ANDERSON RANCH REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	AR #6	Sample Received By:	Celey D. Keene
Project Location:	ANDERSON RANCH		

Sample ID: AR #6 - #3 (H500768-03)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	03/24/2015	ND	1.93	96.3	2.00	11.0		
Toluene*	<0.500	0.500	03/24/2015	ND	1.78	88.9	2.00	10.5		
Ethylbenzene*	<0.500	0.500	03/24/2015	ND	1.70	84.9	2.00	13.0		
Total Xylenes*	<1.50	1.50	03/24/2015	ND	5.10	84.9	6.00	13.9		
Total BTEx	<3.00	3.00	03/24/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

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	03/24/2015	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	03/25/2015	ND	189	94.4	200	3.26	
DRO >C10-C28	1730	10.0	03/25/2015	ND	195	97.7	200	5.35	

Surrogate: 1-Chlorooctane 99.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 125 % 52.1-176

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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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Celey D. Keene, Lab Director/Quality Manager



Page 6 of 6

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

(575) 393-2326 FAX (575) 393-2476

ANALYSIS REQUEST

BILL TO

Company Name: Frontier Field Services (Atka Energy)
Project Manager:

P.O. #:

Address:

City: Melrose

State: NH Zip:

Phone #: 575 513 4922

Fax #:

Project #: AR# 6

Project Owner:

Project Name: Henderson Ranch Ball Remediation

Project Location: AR# 6

Sample Name: Harley Surrhaft

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H500708

1 AR# 6 - #1
2 AR# 6 - #2
3 AR# 6 - #3

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH

BTEX

Chlorides

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Relinquished By:

Date: 3.23.15

Received By:

Time: 10:02

Relinquished By:

Date: 3.23.15

Received By:

Time: 10:00

Phone Result:

☐ Yes

☐ No

Add'l Phone #:

Fax Result:

☐ Yes

☐ No

Add'l Fax #:

REMARKS:

E-mail Results.

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

2.40

Sample Condition:
☒ Cool
☐ Intact

☒ Yes
☐ No

CHECKED BY: (Initials)

Attached to this Final NMOCD C-141 report includes;

- 1) AR#4_SoilRemediation_SampleLocations_3.16.15
- 2) AR#5_SoilRemediation_SampleLocations_3.16.15
- 3) AR#6_SoilRemediation_SampleLocations_3.16.15
- 4) AR#4_#5_#9_SoilRemediation_CadinalLabs_Samples_3.16.2015
- 5) AR#6_SoilRemediation_CadinalLabs_Samples_3.23.2015
- 6) AR_SoilRemediation_R360_Complete_Manifest_List_2.2015 to 3.2015 (already submitted to NMOCD)
- 7) AR#4_RemediationCompletion_3.24.15
- 8) AR#5_RemediationCompletion_3.24.15
- 9) AR#6_RemediationCompletion_3.26.15