

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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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



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)

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	03/19/2015	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 BTEX	2.85	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154	t						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	154 9	% 52.1-17							

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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#4-02 (H500713-02)

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	03/19/2015	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 BTEX	3.64	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	152 9	52.1-17	6						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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#4-03 (H500713-03)

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	03/19/2015	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 BTEX	2.71	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	146 9	% 61-154	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	03/18/2015	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	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 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	142 9	52.1-17	6						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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#4-04 (H500713-04)

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	03/19/2015	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 BTEX	1.80	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	127 9	% 61-154							
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	03/18/2015	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	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 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	122 9	52.1-17	6						

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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#5-01 (H500713-05)

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	03/19/2015	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 BTEX	<0.300	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 %	61-154	!						
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	03/18/2015	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	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 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	171 9	52.1-17							

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2015	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 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	167 9	52.1-17	6						

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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)

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	03/19/2015	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 BTEX	<0.300	0.300	03/19/2015	ND						
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 61-154	!							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	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	03/18/2015	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	% 47.2-15	7							
Surrogate: 1-Chlorooctadecane	118 9	52.1-17	6							

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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)

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	03/19/2015	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 BTEX	<0.300	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result Reporting Limit		Analyzed Method Bla		BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	03/18/2015	03/18/2015 ND		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	03/18/2015	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	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	86.7	% 52.1-17	6						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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)

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	03/19/2015	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 BTEX	<0.300	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	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	03/18/2015	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	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	96.0	52.1-17	6						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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)

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	03/19/2015	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 BTEX	<0.300	0.300	03/19/2015	ND						
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 61-154	!							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	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	03/18/2015	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	% 47.2-15	7							
Surrogate: 1-Chlorooctadecane	97.2	% 52.1-17	6							

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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)

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	03/19/2015	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 BTEX	<0.300	0.300	03/19/2015	ND						
Surrogate: 4-Bromofluorobenzene (PID	106 9	61-154	!							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP						
Analyte	Result Reporting Limit		Analyzed Method Bla		BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	03/18/2015	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	03/18/2015	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	% 47.2-15	7							
Surrogate: 1-Chlorooctadecane	99.9	52.1-17	6							

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

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

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

† Care, vic	Sampler - UPS -	Delivered Bv: (Circle One)		Relinquished By:	2 h J	Relinquished By:	arrayses, no country including service. In no event shall Care affiliates or successors arising	PLEASE NOTE: Liability and Dama	-	91	_		4 4	3	2	-	H5007113	Lab I.U.	-	FOR LAB USE ONLY	<b>.</b>	Project Location:	Project Name:	Project #: AR#	Phone #: 555	city: M. (a	Address:	Project Manager:	Company Name:	1			
⊿ cannot accept verbal changes. Please fax written changes to (575) 393-2326	Bus - Other:	(Circle One)		X	A	16	service. In no event shall Cardinal be liable for incidental or consection and any output of service. In no event shall Cardinal be liable for incidental or consection affiliates or successors arising out of or related to the performance		HICS TOS	15	5-0	Ind Location	4R# 4-04	1R# 4-03	12# 4- 02	4R#4-01	ST Location	sampie i.u.				Andresen Runch	Anderson Ranch	H + AR# 5	513-4922	mar			Frontier Field Serv	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		abora	ARD
hanges. Please	0			2		Date:	ause milaisoever shall be de quental damages, including v of services hereunder by Ca	nt's exclusive remedy for any											,			AR#4 +	Re medio	Project Owner:	Fax #:	State: N M			Services (Hha	obbs, NM 8824 (575) 393-2476		torie	DINAL
fax written chang	So Pres	Sample	C	Received By:	M M M	Received By:	rease emissioners simility or opening wards unless interprised in the reverse by contrain whithin outry a pair comparison on the population equential damages, including without limitation, basiness interprised incomes, or loss of profits incurred by cleating it. Its subsidiaries, e of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	any claim arising whether based			X I X				X I X	X I X	# CO GRO	ONTAIN OUNDV STEWA	VATER	P. MATRIX		AR#5	ation			Zip:		. 11	Eners)	40		S	F
les to (575) 39342:				14 Mar	The IN NO	4	irruptions, loss of use, or loss uch claim is based upon any o	in contract or tort, shall be lim	7	5 /	1		*	~ .	-	*	OTH ACII	idge Ier : D/Base / Cooi		RIX PRESERV.	Fax	Phone #:	State:	City:	Address:	Attn:	Company:	P.O. #:	4				
326	(mittals)	CHECKED BY:			RE		use, or loss of profits incurred by client, it use, or loss of profits incurred by client, it d upon any of the above stated reasons (	ited to the amount paid by th	3-16-15 16:	5 10	3.16.15 10.		3-16-15 69,	3-16-15 69		3-16-15 03	DATE	IER :		RV. SAMPLING	1		Zip:	10	CXr/	1			BILL TO		원		
	7	lun	e al l		[	Result:	tipieuoni oli ure applicable (, its subsidiaries, (s or otherwise.	nt paid by the client for the	X X 80:		10:00 X X		x x 04:59	:36 X X	09:33 X X	65:30 x x		<u>Р</u> Н Т 5 '													CHAIN-OF-CUSTODY AND ANALYSIS REQUEST		
	curriner.	ta ala energy in	Kesuli	Ĵ.		Yes I No Ac			*	X	K		¥	×	×	×		,	ides										A		JSTODY A		
		aluncon				Add'l Phone #: Add'l Fax #:																						_	ANALYSIS RE		ND ANAL		
		1 Chris																											REQUEST	,	<b>YSIS REQ</b>		
	Ļ																											_			UEST		

	CA
Dora	RD
ato	ž
TIPS	AL

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(3/3) JJJ-2J20 FAA (3/3) JJJ-24/	0																									× .
Company Name:	Frontier tiuld Services LAKE France	44	20	19	P						BILL	LL TO					ANALYSIS	3		REQUEST	2 C	-S	1				all some
Address:	-							Com		Company:	·																Statute of the local division of the local d
City: Ma(	I a mar State: N h Zip:	Zip:						A	Attn:		<i></i>	po															and the owner where the party is not the party of the par
e #	1 2264							A	Address:	SS:		Unrul.															CARD IN COLUMN
Project #:	ALA 9 Project Owner:	a						0	City:			1				-											-
Project Name:	erson Reach Rem	rol	0	1º	ion			ŝ	State:			Zip:															
Project Location:	1: Huderson Rench #9							₽	Phone #:	#:																	-
Sampler Name:	Harten Everh		1					F	Fax #:																		-
FOR LAB USE ONLY	1 0		_		z	MATRIX	×		PR	PRESERV	RV.	SAMPLING								_							No. of Concession, Name
		STREET, STREET			TER				:					13 19		ines											CONTRACTOR OF THE OWNER WATER
Lab I.D.	Sample I.D.	(G)RAB OR	# CONTAIN	GROUNDW	WASTEWA	SOIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :	DATE	TIME		Tute 1	Chler										S	Construction of the second second second
8	HR # 2 - 01	~	-			~		+		*		3-16-15 67	67.45	P	4	k			-			-			-		-
9	4249-02	~	-	-	-	-	-	+		×		3-11-15-67	67:47	æ	٤	8			-			+			-		-
0	4229 - 03	-	-			×	+	-		~		346.15 67	84 :40	×	8	8		1	-			+			-		of the second second
1	40 - 64	~	-			-				~		3-16-15 07	01:55	×	y	Y											terror and the second data and
																											And the second se
LEASE NOTE: Liability ar inalyses. All claims includir iervice. In no event shall C iffliates or successors arisi	Damages. Cardinal's liability and client' those for negligence and any other cau dinal be liable for incidental or conseque out of or related to the performance of	deemed g without ardinal,	arising waived limitati regard	g whet d unles ion, bu less of	her ba is mad siness wheth	e in w interr	contra riting a uptions th clain	ct or to nd rec s, loss n is ba	of use, sed up	or los	mited t dinal w s of pr s of the	Whether based in contrad or tort, shall be limited to the amount paid by unless made in writing and received by Cardinal within 30 days after con on, business interruptions, loss of use, or loss of profits incurated by client, ess of whether such claim is based upon any of the above stated reasons	vaid by the client for the fter completion of the app y client, its subsidiaries, reasons or otherwise.						1							-	6 - I
Relinquished By:	Time: 16.15	Rec	Received By:			5.	4	2	2	2	Maon	Ĉ	Phone Result: Fax Result: REMARKS:		□ Yes	L NO	Add'l Phone #: Add'l Fax #:	Fax #	# IE #:								and some state of the second second
	Time:	4											C-Mail Hor	til F	-	hat Plakachen	to	ako	5	5	E	3	5				
Delivered By	(Circle One)		0		amp	le C	Sample Condition	tion		SH	<b>T</b> ER	CHECKED BY:			>	CACK				2							COLUMN TWO IS NOT
Sampler - UPS -	- Bus - Other:	0.80	27	1	ΗĘ	No es	No No No	lo es		P	1										1	1			L	1	States in case of the local division of the
† Care	A cannot accept verbal changes. Please fax written changes to (575) 393-2326	e fax	writ	ten	1 Sa	(ng	to	(57	5) 3	8	232(	6														/	