

Closure Report

Site Description

Site Name:	Hayhurst NM Frac Pad 6
Company:	Chevron USA
Legal Description:	U/L F, Section 16, T26S, R28E
County:	Eddy County, NM
GPS Coordinates:	N 32.07784 W-104.16465

Release Data

Date of Release:	9/15/18
Type of Release:	Produced water
Source of Release:	Damaged flat hose line
Volume of Release:	176 bbls
Volume Recovered:	0 bbls

Remediation Specifications

Remediation Parameters:	Excavated the areas of SP1-SP3 & SP6 to a depth of 1 ft. Excavated the areas of SP4, SP7-SP10, & SP12 to a depth of 2 ft. Excavated the areas of SP5 & SP13 to a depth of 4 ft. Excavated the area of SP11 to a depth of 3ft. Obtained confirmation samples. Backfill the site with clean soil.	
Remediation Activities:	5/21/19 to 6/7/19	
Plan Sent to OCD:	12/7/18	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	2/7/19	Email from Mike Bratcher to Cliff Brunson
Plan Sent to SLO:	12/7/18	Email from Cliff Brunson to Ryan Mann
SLO Approval of Plan:	12/14/18	Email from Ryan Mann to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 9/26/18
C-141, page 6	Signed and included
Site Diagram	December 2018
Pictures	Remediation pictures prior to and after backfill

Request for Closure

Based on the completion of the remediation plan, BBC International, Inc. requests closure approval from NMOCD.

Cliff Brunson, President, BBC International, Inc.

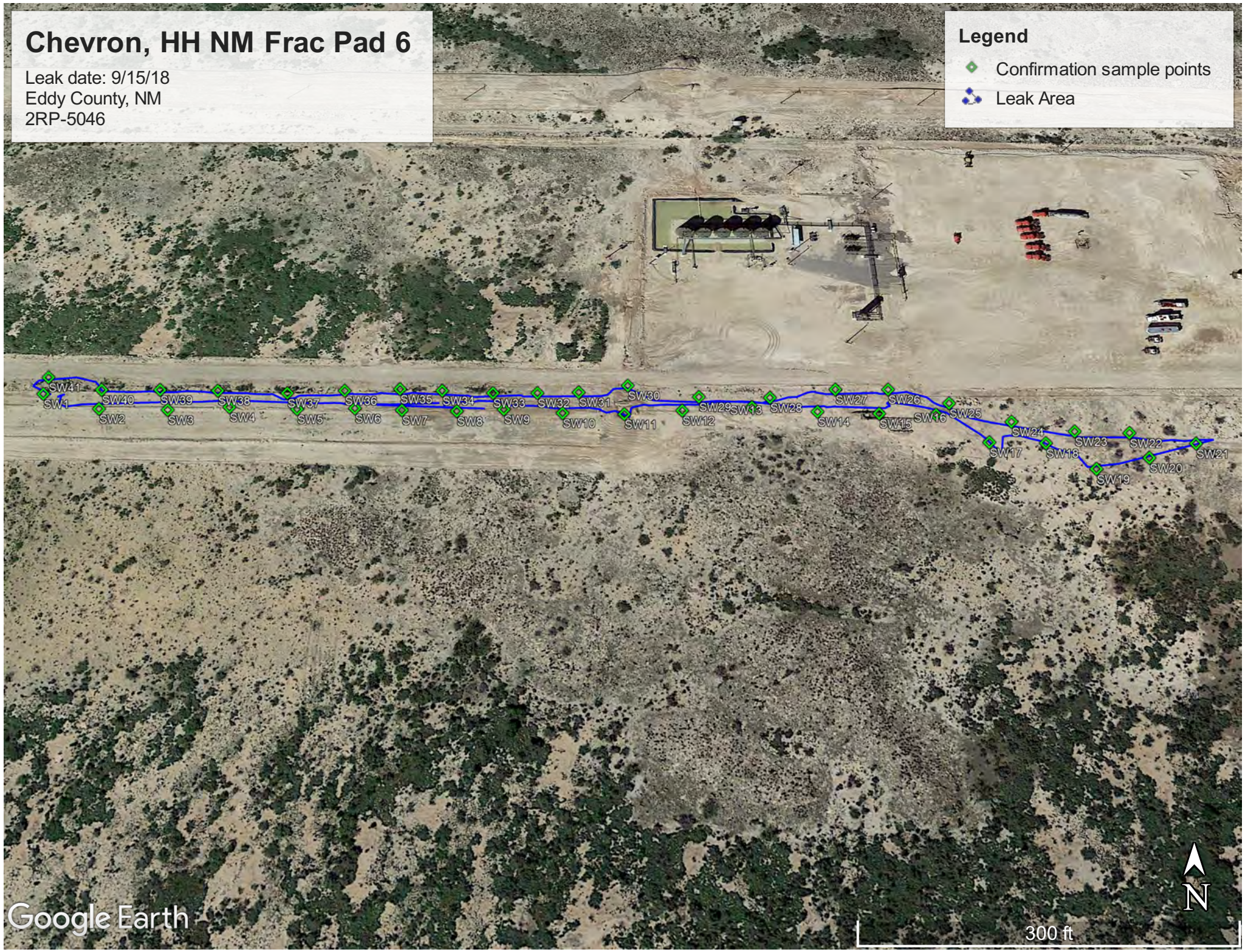
06/21/2019

Chevron, HH NM Frac Pad 6

Leak date: 9/15/18
Eddy County, NM
2RP-5046

Legend

- ◆ Confirmation sample points
- 📍 Leak Area



Chevron, HH NM Frac Pad 6

Sample points

SP1, N 32.07772 W-104.16302
SP2, N 32.07770 W-104.16330
SP3, N 32.07777 W-104.16364
SP4, N 32.07786 W-104.16399
SP5, N 32.07785 W-104.16434
SP6, N 32.07784 W-104.16465
SP7, N 32.07784 W-104.16489
SP8, N 32.07784 W-104.16512
SP9, N 32.07785 W-104.16539
SP10, N 32.07785 W-104.16568
SP11, N 32.07785 W-104.16594
SP12, N 32.07785 W-104.16621
SP13, N 32.07786 W-104.16650
NORTH, N 32.07792 W-104.16385
SOUTH, N 32.07761 W-104.16333
EAST, N 32.07740 W-104.16290
WEST, N 32.07789 W-104.16670

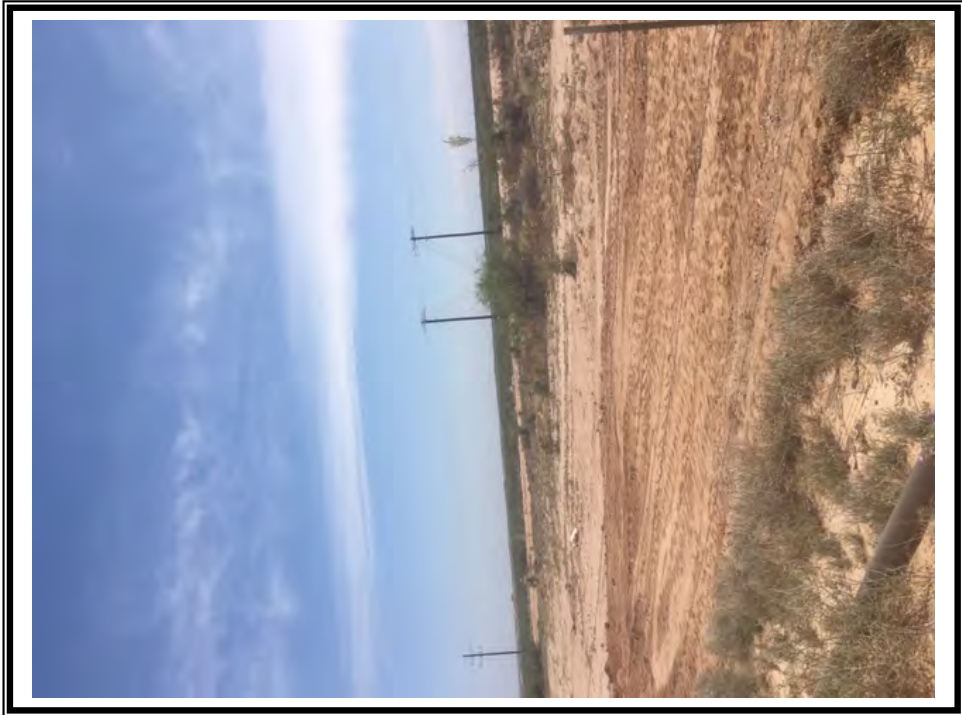
Confirmation sample points

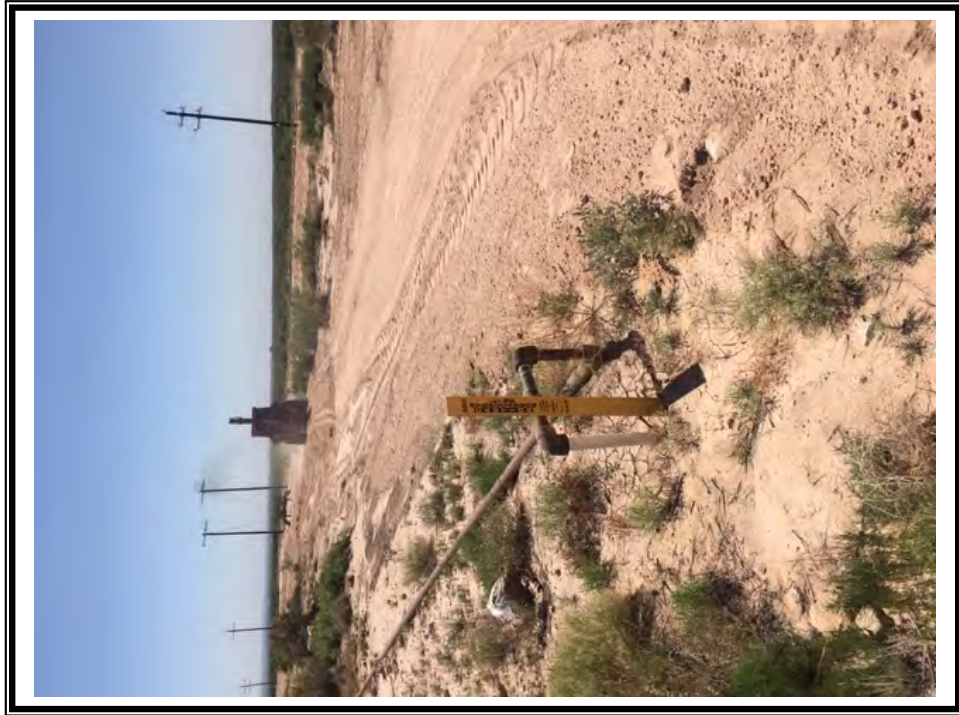
SW1, N 32.07786 W-104.16663
SW2, N 32.07781 W-104.16644
SW3, N 32.07781 W-104.16622
SW4, N 32.07782 W-104.16603
SW5, N 32.07781 W-104.16582
SW6, N 32.07782 W-104.16563
SW7, N 32.07781 W-104.16548
SW8, N 32.07781 W-104.16531
SW9, N 32.07782 W-104.16516
SW10, N 32.07781 W-104.16498

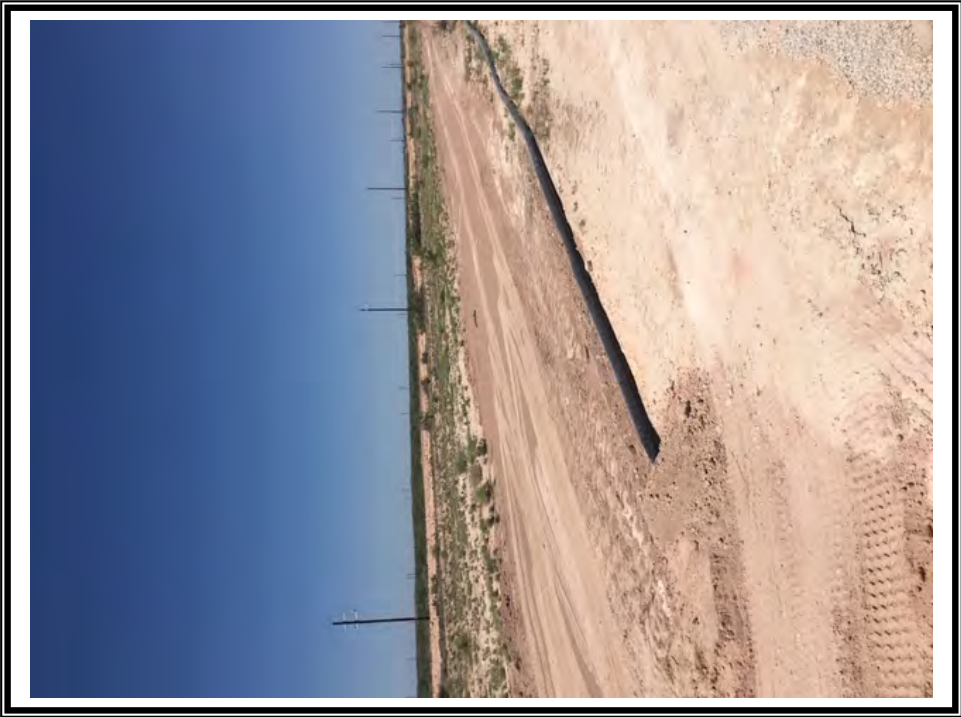
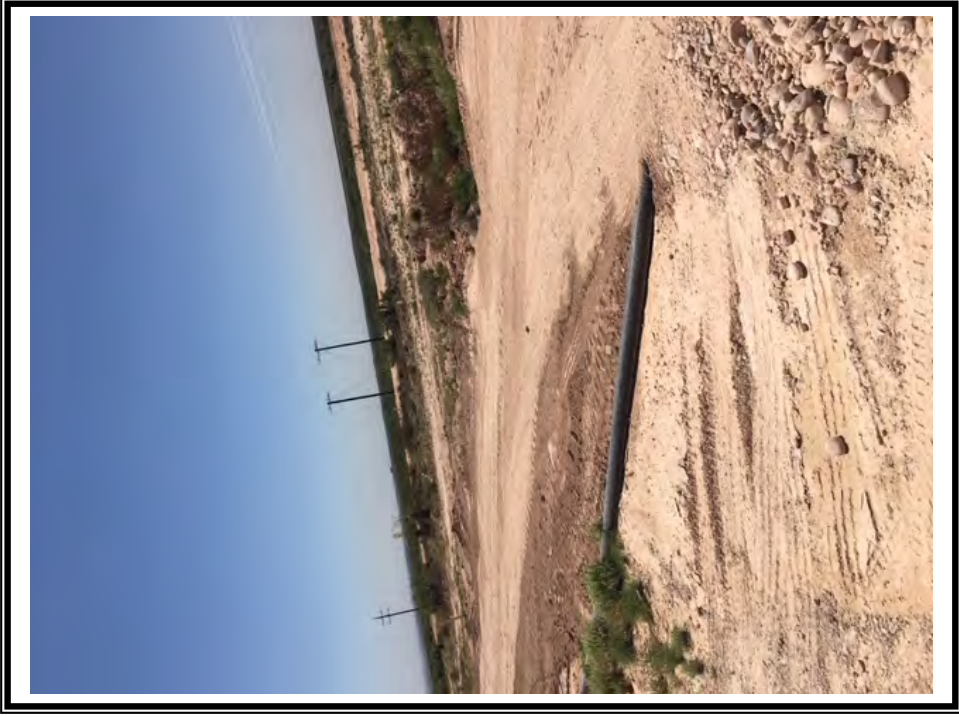
SW11, N 32.07781 W-104.16478
SW12, N 32.07782 W-104.16460
SW13, N 32.07784 W-104.16437
SW14, N 32.07782 W-104.16416
SW15, N 32.07782 W-104.16397
SW16, N 32.07781 W-104.16379
SW17, N 32.07772 W-104.16363
SW18, N 32.07772 W-104.16345
SW19, N 32.07764 W-104.16331
SW20, N 32.07768 W-104.16314
SW21, N 32.07772 W-104.16298
SW22, N 32.07776 W-104.16318
SW23, N 32.07776 W-104.16336
SW24, N 32.07779 W-104.16355
SW25, N 32.07785 W-104.16374
SW26, N 32.07790 W-104.16393
SW27, N 32.07790 W-104.16410
SW28, N 32.07787 W-104.16431
SW29, N 32.07787 W-104.16454
SW30, N 32.07790 W-104.16477
SW31, N 32.07788 W-104.16493
SW32, N 32.07787 W-104.16506
SW33, N 32.07787 W-104.16520
SW34, N 32.07788 W-104.16536
SW35, N 32.07789 W-104.16550
SW36, N 32.07788 W-104.16567
SW37, N 32.07787 W-104.16585
SW38, N 32.07787 W-104.16608
SW39, N 32.07788 W-104.16626
SW40, N 32.07788 W-104.16645
SW41, N 32.07792 W-104.16663











Laboratory Analytical Results Summary
 HH NM FRAC PAD 6 PKG 4 WTC (9/15/18)

		Sample ID	SIDEWALL 1
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		144

		Sample ID	SIDEWALL 11
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		96

		Sample ID	SIDEWALL 21
Analyte	Method	Date	5/30/19
			mg/kg
Chloride	SM4500Cl-B		96

		Sample ID	SIDEWALL 2
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		128

		Sample ID	SIDEWALL 12
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		112

		Sample ID	SIDEWALL 22
Analyte	Method	Date	5/30/19
			mg/kg
Chloride	SM4500Cl-B		96

		Sample ID	SIDEWALL 3
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		144

		Sample ID	SIDEWALL 13
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		96

		Sample ID	SIDEWALL 23
Analyte	Method	Date	5/30/19
			mg/kg
Chloride	SM4500Cl-B		112

		Sample ID	SIDEWALL 4
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		112

		Sample ID	SIDEWALL 14
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		96

		Sample ID	SIDEWALL 24
Analyte	Method	Date	5/30/19
			mg/kg
Chloride	SM4500Cl-B		112

		Sample ID	SIDEWALL 5
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		144

		Sample ID	SIDEWALL 15
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		96

		Sample ID	SIDEWALL 25
Analyte	Method	Date	5/30/19
			mg/kg
Chloride	SM4500Cl-B		112

		Sample ID	SIDEWALL 6
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		96

		Sample ID	SIDEWALL 16
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		128

		Sample ID	SIDEWALL 26
Analyte	Method	Date	5/30/19
			mg/kg
Chloride	SM4500Cl-B		144

		Sample ID	SIDEWALL 7
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		128

		Sample ID	SIDEWALL 17
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		160

		Sample ID	SIDEWALL 27
Analyte	Method	Date	5/30/19
			mg/kg
Chloride	SM4500Cl-B		112

		Sample ID	SIDEWALL 8
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		112

		Sample ID	SIDEWALL 18
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		112

		Sample ID	SIDEWALL 28
Analyte	Method	Date	5/30/19
			mg/kg
Chloride	SM4500Cl-B		128

		Sample ID	SIDEWALL 9
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		112

		Sample ID	SIDEWALL 19
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		112

		Sample ID	SIDEWALL 29
Analyte	Method	Date	5/30/19
			mg/kg
Chloride	SM4500Cl-B		112

		Sample ID	SIDEWALL 10
Analyte	Method	Date	5/29/19
			mg/kg
Chloride	SM4500Cl-B		112

		Sample ID	SIDEWALL 20
Analyte	Method	Date	5/30/19
			mg/kg
Chloride	SM4500Cl-B		112

		Sample ID	SIDEWALL 30
Analyte	Method	Date	5/30/19
			mg/kg
Chloride	SM4500Cl-B		128

Laboratory Analytical Results Summary
 HH NM FRAC PAD 6 PKG 4 WTC (9/15/18)

			Sample ID	SIDEWALL 31
Analyte	Method	Date	5/30/19	
			mg/kg	
Chloride	SM4500Cl-B		112	

			Sample ID	SIDEWALL 41
Analyte	Method	Date	5/30/19	
			mg/kg	
Chloride	SM4500Cl-B		112	

			Sample ID	SIDEWALL 32
Analyte	Method	Date	5/30/19	
			mg/kg	
Chloride	SM4500Cl-B		128	

			Sample ID	SIDEWALL 33
Analyte	Method	Date	5/30/19	
			mg/kg	
Chloride	SM4500Cl-B		96	

			Sample ID	SIDEWALL 34
Analyte	Method	Date	5/30/19	
			mg/kg	
Chloride	SM4500Cl-B		128	

			Sample ID	SIDEWALL 35
Analyte	Method	Date	5/30/19	
			mg/kg	
Chloride	SM4500Cl-B		128	

			Sample ID	SIDEWALL 36
Analyte	Method	Date	5/30/19	
			mg/kg	
Chloride	SM4500Cl-B		144	

			Sample ID	SIDEWALL 37
Analyte	Method	Date	5/30/19	
			mg/kg	
Chloride	SM4500Cl-B		144	

			Sample ID	SIDEWALL 38
Analyte	Method	Date	5/30/19	
			mg/kg	
Chloride	SM4500Cl-B		144	

			Sample ID	SIDEWALL 39
Analyte	Method	Date	5/30/19	
			mg/kg	
Chloride	SM4500Cl-B		160	

			Sample ID	SIDEWALL 40
Analyte	Method	Date	5/30/19	
			mg/kg	
Chloride	SM4500Cl-B		144	

June 01, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: HH NM FRAC PAD 6

Enclosed are the results of analyses for samples received by the laboratory on 05/31/19 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	05/31/2019	Sampling Date:	05/29/2019
Reported:	06/01/2019	Sampling Type:	Soil
Project Name:	HH NM FRAC PAD 6	Sampling Condition:	Cool & Intact
Project Number:	PKG 4 WT	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SIDEWALL 1 (H901918-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/01/2019	ND	400	100	400	0.00	

Sample ID: SIDEWALL 2 (H901918-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/01/2019	ND	400	100	400	0.00	

Sample ID: SIDEWALL 3 (H901918-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/01/2019	ND	400	100	400	0.00	

Sample ID: SIDEWALL 4 (H901918-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/01/2019	ND	400	100	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	05/31/2019	Sampling Date:	05/29/2019
Reported:	06/01/2019	Sampling Type:	Soil
Project Name:	HH NM FRAC PAD 6	Sampling Condition:	Cool & Intact
Project Number:	PKG 4 WT	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SIDEWALL 5 (H901918-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/01/2019	ND	400	100	400	0.00	

Sample ID: SIDEWALL 6 (H901918-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/01/2019	ND	400	100	400	0.00	

Sample ID: SIDEWALL 7 (H901918-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/01/2019	ND	400	100	400	0.00	

Sample ID: SIDEWALL 8 (H901918-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/01/2019	ND	400	100	400	0.00	

Sample ID: SIDEWALL 9 (H901918-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/01/2019	ND	400	100	400	0.00	

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 Cliff Brunson
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 Hobbs NM, 88241
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 Received: 05/31/2019
 Reported: 06/01/2019
 Project Name: HH NM FRAC PAD 6
 Project Number: PKG 4 WT
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/29/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 10 (H901918-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/01/2019	ND	400	100	400	0.00	

Sample ID: SIDEWALL 11 (H901918-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/01/2019	ND	400	100	400	0.00	

Sample ID: SIDEWALL 12 (H901918-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/01/2019	ND	400	100	400	0.00	

Sample ID: SIDEWALL 13 (H901918-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/01/2019	ND	400	100	400	0.00	

Sample ID: SIDEWALL 14 (H901918-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/01/2019	ND	400	100	400	0.00	

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 Received: 05/31/2019
 Reported: 06/01/2019
 Project Name: HH NM FRAC PAD 6
 Project Number: PKG 4 WT
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/29/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 15 (H901918-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/01/2019	ND	400	100	400	3.92	

Sample ID: SIDEWALL 16 (H901918-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/01/2019	ND	400	100	400	0.00	

Sample ID: SIDEWALL 17 (H901918-17)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/01/2019	ND	400	100	400	3.92	

Sample ID: SIDEWALL 18 (H901918-18)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/01/2019	ND	400	100	400	3.92	

Sample ID: SIDEWALL 19 (H901918-19)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/01/2019	ND	400	100	400	3.92	

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Received:	05/31/2019	Sampling Date:	05/30/2019
Reported:	06/01/2019	Sampling Type:	Soil
Project Name:	HH NM FRAC PAD 6	Sampling Condition:	Cool & Intact
Project Number:	PKG 4 WT	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SIDEWALL 20 (H901918-20)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/01/2019	ND	400	100	400	3.92	

Sample ID: SIDEWALL 21 (H901918-21)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/01/2019	ND	400	100	400	3.92	

Sample ID: SIDEWALL 22 (H901918-22)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/01/2019	ND	416	104	400	3.92	

Sample ID: SIDEWALL 23 (H901918-23)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/01/2019	ND	400	100	400	3.92	

Sample ID: SIDEWALL 24 (H901918-24)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/01/2019	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

 Received: 05/31/2019
 Reported: 06/01/2019
 Project Name: HH NM FRAC PAD 6
 Project Number: PKG 4 WT
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/30/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 25 (H901918-25)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/01/2019	ND	400	100	400	3.92	

Sample ID: SIDEWALL 26 (H901918-26)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/01/2019	ND	400	100	400	3.92	

Sample ID: SIDEWALL 27 (H901918-27)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/01/2019	ND	400	100	400	3.92	

Sample ID: SIDEWALL 28 (H901918-28)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/01/2019	ND	400	100	400	3.92	

Sample ID: SIDEWALL 29 (H901918-29)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/01/2019	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

 Received: 05/31/2019
 Reported: 06/01/2019
 Project Name: HH NM FRAC PAD 6
 Project Number: PKG 4 WT
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/30/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 30 (H901918-30)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/01/2019	ND	400	100	400	3.92	

Sample ID: SIDEWALL 31 (H901918-31)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/01/2019	ND	400	100	400	3.92	

Sample ID: SIDEWALL 32 (H901918-32)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/01/2019	ND	400	100	400	3.92	

Sample ID: SIDEWALL 33 (H901918-33)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/01/2019	ND	400	100	400	3.92	

Sample ID: SIDEWALL 34 (H901918-34)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/01/2019	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	05/31/2019	Sampling Date:	05/30/2019
Reported:	06/01/2019	Sampling Type:	Soil
Project Name:	HH NM FRAC PAD 6	Sampling Condition:	Cool & Intact
Project Number:	PKG 4 WT	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SIDEWALL 35 (H901918-35)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/01/2019	ND	400	100	400	3.92	

Sample ID: SIDEWALL 36 (H901918-36)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/01/2019	ND	400	100	400	3.92	

Sample ID: SIDEWALL 37 (H901918-37)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/01/2019	ND	416	104	400	3.92	

Sample ID: SIDEWALL 38 (H901918-38)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/01/2019	ND	416	104	400	3.92	

Sample ID: SIDEWALL 39 (H901918-39)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/01/2019	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

 Received: 05/31/2019
 Reported: 06/01/2019
 Project Name: HH NM FRAC PAD 6
 Project Number: PKG 4 WT
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/30/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 40 (H901918-40)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/01/2019	ND	416	104	400	3.92	

Sample ID: SIDEWALL 41 (H901918-41)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/01/2019	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 5

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs Phone #: 575-397-6388 Project #: _____ Project Name: HH NM Frac Pad 6 pkg 4 WT Project Location: _____ Sampler Name: Roger Hernandez				BILL TO P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____			
State: NM zip: 88241 Fax #: 575-397-0397 Project Owner: _____				ANALYSIS REQUEST			
FOR LAB USE ONLY							
Lab I.D.		Sample I.D.					
1	SIDEWALL 1	9	(G)RAB OR (C)OMP.			Chloride	
2	SIDEWALL 2	1	# CONTAINERS				
3	SIDEWALL 3		GROUNDWATER				
4	SIDEWALL 4		WASTEWATER				
5	SIDEWALL 5		SOIL				
6	SIDEWALL 6		OIL				
7	SIDEWALL 7		SLUDGE				
8	SIDEWALL 8		OTHER:				
9	SIDEWALL 9		ACID/BASE:				
10	SIDEWALL 10		ICE / COOL				
			OTHER:				
			DATE				
			TIME				

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Relinquished By: *Roger Hernandez*
 Date: 5-30-19
 Time: 5:00
 Received By: *[Signature]*
 Date: 5-30-19
 Time: 7:00

Delivered By: (Circle One)
 UPS Bus Other:
 H.2c H.2g

Sample Condition:
 Cool Intact
 Yes No Yes No

CHECKED BY: *[Signature]*
 (Initials) *HS*

REMARKS:
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
Rush!!

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



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 101 East Marland, Hobbs, NM 88240
 (505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs Phone #: 575-397-6388 Project #: _____ Project Name: HH NM Frac Pad 6 pkg 4 WT Project Location: _____ Sampler Name: Roger Hernandez				P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____				
BILL TO				ANALYSIS REQUEST				
FOR LAB USE ONLY		Lab I.D.		Sample I.D.				
H991918						Chloride		
11	SIDEWALL 11	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME
12	SIDEWALL 12			GROUNDWATER			5-29-19	1:20 PM
13	SIDEWALL 13			WASTEWATER			5-29-19	1:30 PM
14	SIDEWALL 14			SOIL			5-29-19	1:40 PM
15	SIDEWALL 15			OIL			5-29-19	1:50 PM
16	SIDEWALL 16			SLUDGE			5-29-19	2:00 PM
17	SIDEWALL 17			OTHER :			5-29-19	2:10 PM
18	SIDEWALL 18			ACID/BASE:			5-29-19	2:20 PM
19	SIDEWALL 19			ICE / COOL			5-29-19	2:30 PM
20	SIDEWALL 20			OTHER :			5-29-19	2:40 PM
							5-30-19	10:50 AM

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Relinquished By: Roger Hernandez	Date: 5-30-19	Received By: [Signature]	Date: 5-31-19
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4.26 #97	Date: 5-31-19	Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: [Signature] (Initials) TP.

REMARKS: _____

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____

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



ARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc. P.O. #:
 Project Manager: Cliff Brunson Company:
 Address: P.O. Box 805 State: NM Zip: 88241
 City: Hobbs Attn:
 Phone #: 575-397-6388 Fax #: 575-397-0397 Address:
 Project #: Project Owner: City:
 Project Name: HH NM Frac Pad 6 pkg 4 WT State: Zip:
 Project Location: Phone #:
 Sampler Name: Roger Hernandez Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :									
4901918		G	1			✓				5-30-19	1:00 PM	✓						
31	SIDEWALL 31									5-30-19	1:10 PM	✓						
32	SIDEWALL 32									5-30-19	1:20 PM	✓						
33	SIDEWALL 33									5-30-19	1:30 PM	✓						
34	SIDEWALL 34									5-30-19	1:40 PM	✓						
35	SIDEWALL 35									5-30-19	1:50 PM	✓						
36	SIDEWALL 36									5-30-19	2:00 PM	✓						
37	SIDEWALL 37									5-30-19	2:10 PM	✓						
38	SIDEWALL 38									5-30-19	2:20 PM	✓						
39	SIDEWALL 39									5-30-19	2:30 PM	✓						
40	SIDEWALL 40									5-30-19	2:30 PM	✓						

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Relinquished By: *Roger Hernandez* Date: 5-30-19 Time: 5:00
 Received By: *Juanita Chavez* Date: 5-31-19 Time: 4:30 PM
 Delivered By: (Circle One) UPS Bus Other: 4.30 #109
 Sample Condition: Intact Cool Yes No
 CHECKED BY: *JC* (Initials)
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:

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

Incident ID	
District RP	2RP-5046
Facility ID	
Application ID	

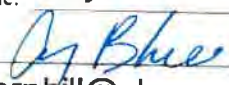
Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Amy Barnhill Title: Waste & Water Specialist
 Signature:  Date: 6-24-19
 email: abarnhill@chevron.com Telephone: (432) 687-7108

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____
 Printed Name: _____ Title: _____