

PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805 E-MAIL: cbrunson@bbcinternational.com

DELINEATION WORKPLAN

CHEVRON – RUSTLER BLUFF 33 (Leak Date: 2/18/17)

RP # 2RP-4135 API # 30-015-42670

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4135.

The following information includes:

- 1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
- 2. GPS information for sample points and sample methodology
- 3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
- 4. Laboratory analysis results summary table and original laboratory analysis reports
- 5. A copy of the initial C-141
- 6. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

CHEVRON will excavate the spill area as depicted on the following site diagram. The entire leak area will be excavated to a depth of 1 foot.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.



Chevron, Rustler Bluff 33

Samples, Hand Auger

SP1, GPS point: N 32.16613 W-103.98728

SP2, GPS point: N 32.16607 W-103.98730

SP3, GPS point: N 32.16600 W-103.98736

SP4, GPS point: N 32.16600 W-103.98729

SP5, GPS point: N 32.16587 W-103.98725

SP6, GPS point: N 32.16587 W-103.98735

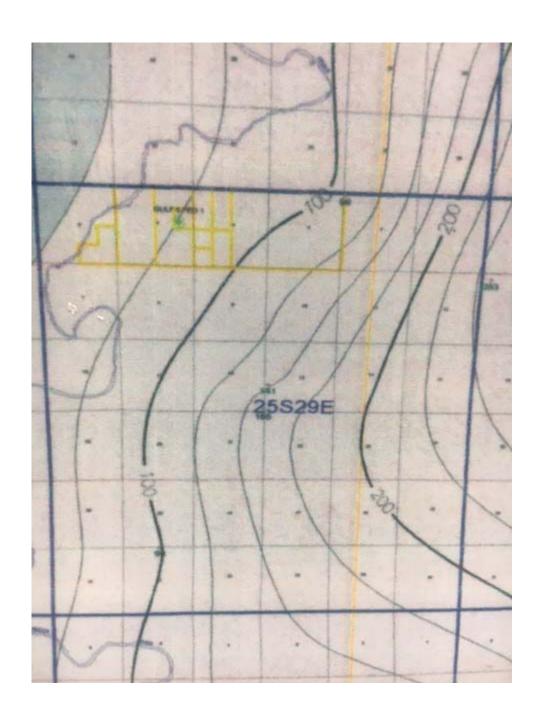
Samples, Hand Auger

North Sample, GPS point: N 32.16617 W-103.98727

South Sample, GPS point: N 32.16582 W-103.98730

East Sample, GPS point: N 32.16594 W-103.98720

West Sample, GPS point: N 32.16594 W-103.98741





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 595482 **Northing (Y):** 3559138 **Radius:** 1700

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/8/17 9:50 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

	0	Q64:	P t Q16: NW	ublic Land Su	urvey System (PLSS) Sec: 04 Tws: 25S Rng: 29E
	0	X: 0 ft			dinate System - NAD27 Zone:
	0	X: 0 ft		e Plane Coord	dinate System - NAD83 Zone:
	0	Longitude (X): Latitude (Y):		grees: 0 °	Minutes/Seconds Minutes: 0 ' Seconds: 0 " Minutes: 0 ' Seconds: 0 "
	0	Easting (X): 0	mtrs Nor		M - NAD27 mtrs Zone:
ı.				•	SUBMIT
		All	Conversion F	Results are di	isplayed as <u>NAD 1983 UTM Zone 13</u>
		Easting (X):	595482.0	mtrs	Northing (Y): 3559138.0 mtrs
			~~ Please kee	p screen open	to copy UTM values for Reports. ~~

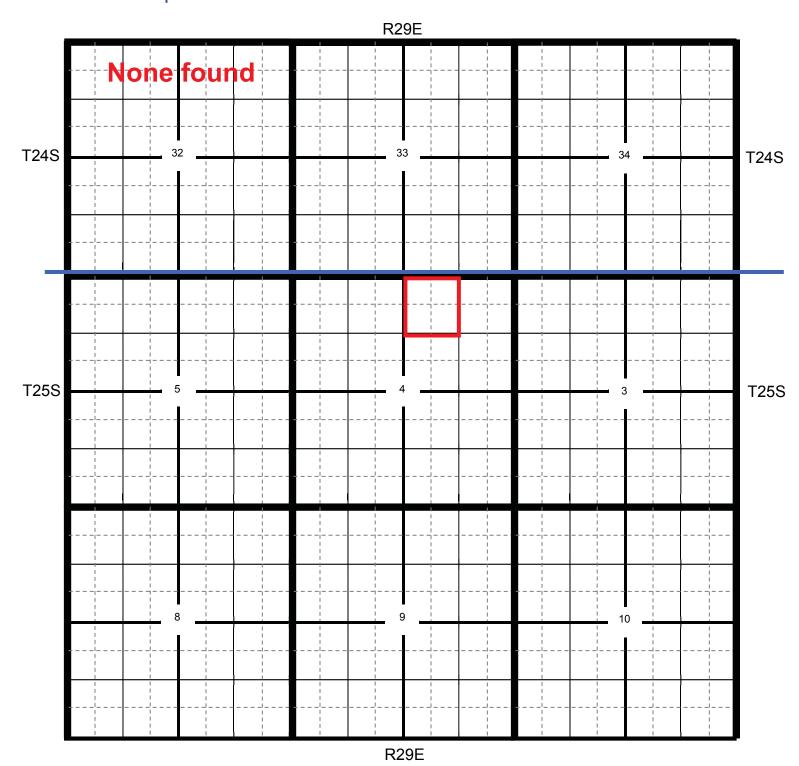


Groundwater Plot

Chevron Rustler Bluff 33

CountyUnit LetterSectionTownshipRangeEddyB425S29E

Trend Map 75'



Location

OCD

USGS

SEO

All Databases

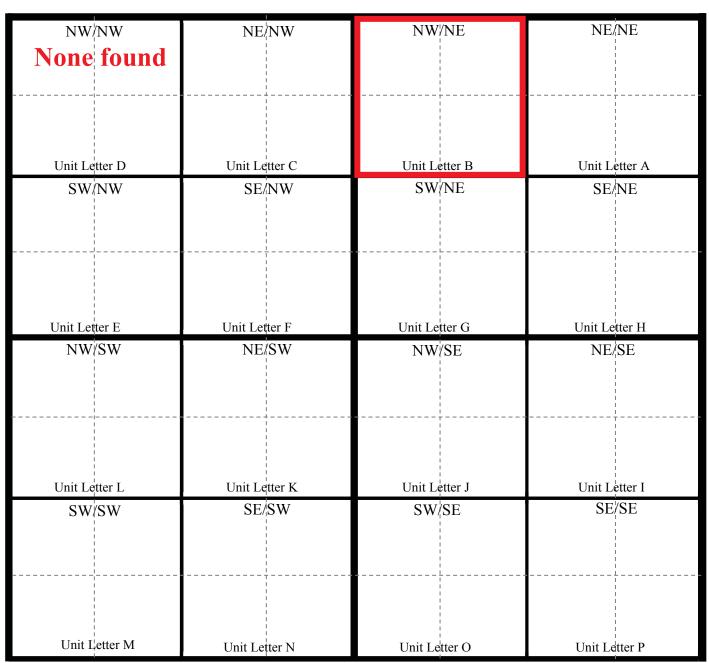


Chevron Site name

CountyUnit LetterSectionTownshipRangeEddyB425S29E

Trend Map 75'

1



3

Laboratory Analytical Results Summary Rustler Bluff 33

		Sample	SP1@ SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	2/23/17	2/23/17	2/23/17
			mg/Kg	mg/Kg	
Benzene	BTEX 8021B		u/a	<0.050	u/a
Toluene	BTEX 8021B		n/a	<0.050	n/a
Ethylbenzene	thylbenzene BTEX 8021B		u/a	<0.050	u/a
Total Xylenes BTEX 8021B	BTEX 8021B		n/a	<0.150	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a
Chloride	SM4500CI-B		22000	1040	208
GRO	TPH 8015M		u/a	<10.0	u/a
DRO	TPH 8015M		n/a	110	n/a

			0 000		
		Sample	SP2@ SURFACE	SP2 @ 1'	SP2@2'
Analyte	Method	Date	2/23/17	2/23/17	2/23/17
			mg/Kg	mg/Kg	
Benzene	BTEX 8021B		u/a	050.0>	e/u
Toluene	BTEX 8021B		n/a	050.0>	e/u
Ethylbenzene	BTEX 8021B		n/a	050.0>	e/u
Total Xylenes BTEX 8021B	BTEX 8021B		n/a	<0.150	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a
Chloride	SM4500CI-B		22000	1170	240
GRO	TPH 8015M		u/a	<10.0	e/u
DRO	TPH 8015M		n/a	123	u/a

		Sample	SP3@ SURFACE	SP3 @ 1.	SP3 @ 2'	SP3@3'
Analyte	Method	Date	2/23/17	2/23/17	2/23/17	2/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	e/u
Toluene	BTEX 8021B		n/a	<0.050	n/a	e/u
Ethylbenzene BTEX 8021B	BTEX 8021B		n/a	<0.050	n/a	e/u
Total Xylenes BTEX 8021B	BTEX 8021B		n/a	<0.150	n/a	e/u
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	e/u
Chloride	SM4500CI-B		11200	880	272	807
GRO	TPH 8015M		n/a	<10.0	n/a	e/u
DRO	TPH 8015M		n/a	74.4	n/a	e/u

		Sample	SP4@ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4@3'
Analyte	Method	Date	2/23/17	2/23/17	2/23/17	2/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		u/a	<0.050	e/u	u/a
Toluene	BTEX 8021B		u/a	<0.050	u/a	u/a
Ethylbenzene	BTEX 8021B		u/a	<0.050	u/a	u/a
Total Xylenes	BTEX 8021B		u/a	0.152	e/u	u/a
Total BTEX	BTEX 8021B		n/a	<0.300	u/a	u/a
Chloride	SM4500CI-B		0969	926	320	160
GRO	TPH 8015M		u/a	<10.0	u/a	u/a
DRO	TPH 8015M		u/a	131	e/u	u/a

		Sample	SP5@ SURFACE	SP5 @ 1'	SP5@2'	SP5@3'
Analyte	Method	Date	2/23/17	2/23/17	2/23/17	2/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		u/a	050'0>	u/a	n/a
Toluene	BTEX 8021B		u/a	090'0>	u/a	n/a
Ethylbenzene BTEX 8021B	BTEX 8021B		n/a	090'0>	n/a	n/a
Total Xylenes BTEX 8021B	BTEX 8021B		n/a	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		u/a	008'0>	u/a	n/a
Chloride	SM4500CI-B		0088	1720	288	16
GRO	TPH 8015M		n/a	<10.0	n/a	n/a
DRO	TPH 8015M		u/a	186	u/a	n/a

		Sample	SP6@ SURFACE	SP6 @ 1'	SP6 @ 2'	.£ @ 9dS
Analyte	Method	Date	2/23/17	2/23/17	2/23/17	2/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		e/u	090'0>	e/u	e/u
Toluene	BTEX 8021B		u/a	90'0	n/a	e/u
Ethylbenzene	BTEX 8021B		u/a	950'0	n/a	u/a
Total Xylenes	BTEX 8021B		u/a	9'0	u/a	e/u
Total BTEX	BTEX 8021B		u/a	0.615	u/a	e/u
Chloride	SM4500CI-B		9730	1100	496	32
GRO	TPH 8015M		u/a	54.8	u/a	e/u
DRO	TPH 8015M		e/u	935	e/u	e/u

Sample SURFACE	Date 2/8/17	mg/Kg	<0.050	<0.050	<0.050	<0.150	<0.300	160	<10.0	
Saı	Method		BTEX 8021B	BTEX 8021B	BTEX 8021B	BTEX 8021B	BTEX 8021B	SM4500CI-B	TPH 8015M	TDU OU1EN
	Analyte		Benzene	Toluene	Ethylbenzene E	Total Xylenes	Total BTEX E	Chloride	GRO	רםם

		Sample	SURFACE
Analyte	Method	Date	2/8/17
			mg/Kg
Benzene	BTEX 8021B		050.0>
Coluene	BTEX 8021B		090'0>
Ethylbenzene	BTEX 8021B		090'0>
otal Xylenes	BTEX 8021B		<0.150
otal BTEX	BTEX 8021B		008'0>
Chloride	SM4500CI-B		144
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	WEST @ SURFACE
Analyte	Method	Date	2/8/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		008'0>
Chloride	SM4500CI-B		144
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SOUTH @ SURFACE
Analyte	Method	Date	2/8/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		160
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0



March 03, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RUSTLER BLUFF 33

Enclosed are the results of analyses for samples received by the laboratory on 02/24/17 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

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

02/23/2017



Analytical Results For:

BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/24/2017 Sampling Date:
Reported: 03/03/2017 Sampling Type:

Reported:03/03/2017Sampling Type:SoilProject Name:RUSTLER BLUFF 33Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

Project Location: MALAGA

Sample ID: SP1 @ SURFACE (H700472-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22000	16.0	02/27/2017	ND	432	108	400	0.00	

Sample ID: SP1 @ 1' (H700472-02)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2017	ND	2.05	103	2.00	2.02	
Toluene*	<0.050	0.050	02/27/2017	ND	1.92	96.2	2.00	2.79	
Ethylbenzene*	<0.050	0.050	02/27/2017	ND	1.90	94.9	2.00	1.87	
Total Xylenes*	<0.150	0.150	02/27/2017	ND	5.40	90.0	6.00	1.94	
Total BTEX	<0.300	0.300	02/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 98.9 % 73.6-140

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	02/27/2017	ND	432	108	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	02/28/2017	ND	173	86.4	200	2.38	
DRO >C10-C28	110	10.0	02/28/2017	ND	166	83.2	200	8.09	QM-07

Surrogate: 1-Chlorooctane 87.3 % 25.1-158
Surrogate: 1-Chlorooctadecane 95.6 % 26.8-170

Cardinal Laboratories *=Accredited Analyte

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/24/2017 Sampling Date: 02/23/2017

Reported: 03/03/2017 Sampling Type: Soil

Project Name: RUSTLER BLUFF 33 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA

Sample ID: SP1 @ 2' (H700472-03)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

Chloride 208 16.0 02/27/2017 ND 432 108 400 0.00

Sample ID: SP2 @ SURFACE (H700472-04)

Chloride, SM4500Cl-B Analyzed By: AC Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 22000 16.0 02/27/2017 432 400 0.00 ND 108

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



MALAGA

Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/24/2017 Sampling Date: 02/23/2017

Reported: 03/03/2017 Sampling Type: Soil

Project Name: RUSTLER BLUFF 33 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: SP2 @ 1' (H700472-05)

Project Location:

BTEX 8021B	mg,	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2017	ND	2.05	103	2.00	2.02	
Toluene*	<0.050	0.050	02/27/2017	ND	1.92	96.2	2.00	2.79	
Ethylbenzene*	<0.050	0.050	02/27/2017	ND	1.90	94.9	2.00	1.87	
Total Xylenes*	< 0.150	0.150	02/27/2017	ND	5.40	90.0	6.00	1.94	
Total BTEX	<0.300	0.300	02/27/2017	ND					

Chloride, SM4500CI-B	mg,	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	02/27/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	g Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/28/2017	ND	173	86.4	200	2.38	
DRO >C10-C28	123	10.0	02/28/2017	ND	166	83.2	200	8.09	

Surrogate: 1-Chlorooctane 84.9 % 25.1-158 Surrogate: 1-Chlorooctadecane 94.1 % 26.8-170

Sample ID: SP2 @ 2' (H700472-06)

Chloride, SM4500Cl-B mg/kg		Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/27/2017	ND	432	108	400	0.00	

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/24/2017 Sampling Date: 02/23/2017

Reported: 03/03/2017 Sampling Type: Soil

Project Name: RUSTLER BLUFF 33 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA

Sample ID: SP3 @ SURFACE (H700472-07)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	02/27/2017	ND	432	108	400	0.00	

Sample ID: SP3 @ 1' (H700472-08)

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	02/27/2017	ND	2.05	103	2.00	2.02	
Toluene*	<0.050	0.050	02/27/2017	ND	1.92	96.2	2.00	2.79	
Ethylbenzene*	<0.050	0.050	02/27/2017	ND	1.90	94.9	2.00	1.87	
Total Xylenes*	<0.150	0.150	02/27/2017	ND	5.40	90.0	6.00	1.94	
Total BTEX	<0.300	0.300	02/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 101 % 73.6-140

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	02/27/2017	ND	432	108	400	0.00	
TPH 8015M	mg	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	02/28/2017	ND	173	86.4	200	2.38	
DRO >C10-C28	74.4	10.0	02/28/2017	ND	166	83.2	200	8.09	

Surrogate: 1-Chlorooctane 84.9 % 25.1-158 Surrogate: 1-Chlorooctadecane 84.3 % 26.8-170

Cardinal Laboratories *=Accredited Analyte

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/24/2017 Sampling Date: 02/23/2017

Reported: 03/03/2017 Sampling Type: Soil

Project Name: RUSTLER BLUFF 33 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA

Sample ID: SP3 @ 2' (H700472-09)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

Chloride 272 16.0 02/27/2017 ND 432 108 400 0.00

Sample ID: SP3 @ 3' (H700472-10)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 208 16.0 02/27/2017 432 400 0.00 ND 108

Sample ID: SP4 @ SURFACE (H700472-11)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 6960 02/27/2017 ND 400 0.00 16.0 432 108

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Celeg D. Freene



MALAGA

Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/24/2017 Sampling Date: 02/23/2017

Reported: 03/03/2017 Sampling Type: Soil

Project Name: **RUSTLER BLUFF 33** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Sample ID: SP4 @ 1' (H700472-12)

Project Location:

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	02/27/2017	ND	2.05	103	2.00	2.02	
Toluene*	<0.050	0.050	02/27/2017	ND	1.92	96.2	2.00	2.79	
Ethylbenzene*	<0.050	0.050	02/27/2017	ND	1.90	94.9	2.00	1.87	
Total Xylenes*	0.152	0.150	02/27/2017	ND	5.40	90.0	6.00	1.94	
Total BTEX	<0.300	0.300	02/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	02/27/2017	ND	432	108	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	02/28/2017	ND	173	86.4	200	2.38	
DRO >C10-C28	131	10.0	02/28/2017	ND	166	83.2	200	8.09	
Surrogate: 1-Chlorooctane	87.2	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	90.6	% 26.8-17	0						

Sample ID: SP4 @ 2' (H700472-13)

Chloride, SM4500Cl-B mg/kg		Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/27/2017	ND	432	108	400	0.00	

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/24/2017 Sampling Date: 02/23/2017

Reported: 03/03/2017 Sampling Type: Soil

Project Name: RUSTLER BLUFF 33 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA

Sample ID: SP4 @ 3' (H700472-14)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 160 16.0 02/27/2017 ND 432 108 400 0.00

16.0 62,27,2017 185 192 186 186

Sample ID: SP5 @ SURFACE (H700472-15)

Chloride, SM4500Cl-B Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte % Recovery 8800 Chloride 16.0 02/27/2017 432 400 0.00 QM-07 ND 108

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Fax To: (575) 397-0397

Received: 02/24/2017 Sampling Date: 02/23/2017

Reported: 03/03/2017 Sampling Type: Soil

Project Name: RUSTLER BLUFF 33 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: SP5 @ 1' (H700472-16)

Project Location:

Total BTEX

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	02/27/2017	ND	2.05	103	2.00	2.02	
Toluene*	<0.050	0.050	02/27/2017	ND	1.92	96.2	2.00	2.79	
Ethylbenzene*	<0.050	0.050	02/27/2017	ND	1.90	94.9	2.00	1.87	
Total Xylenes*	< 0.150	0.150	02/27/2017	ND	5.40	90.0	6.00	1.94	

ND

02/27/2017

Surrogate: 4-Bromofluorobenzene (PID 99.6 % 73.6-140

MALAGA

< 0.300

0.300

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	02/27/2017	ND	432	108	400	0.00	
TPH 8015M	015M 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	02/28/2017	ND	173	86.4	200	2.38	
DRO >C10-C28	186	10.0	02/28/2017	ND	166	83.2	200	8.09	

Surrogate: 1-Chlorooctane 88.4 % 25.1-158
Surrogate: 1-Chlorooctadecane 90.0 % 26.8-170

Sample ID: SP5 @ 2' (H700472-17)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/27/2017	ND	432	108	400	0.00	

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Fax To: (575) 397-0397

Received: 02/24/2017 Sampling Date: 02/23/2017

Reported: 03/03/2017 Sampling Type: Soil

Project Name: RUSTLER BLUFF 33 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA

Sample ID: SP5 @ 3' (H700472-18)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 16.0 16.0 02/27/2017 ND 432 108 400 0.00

Sample ID: SP6 @ SURFACE (H700472-19)

Chloride, SM4500Cl-B Analyzed By: AC Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 9730 16.0 02/27/2017 432 400 0.00 ND 108

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Fax To: (575) 397-0397

Received: 02/24/2017 Sampling Date: 02/23/2017

Reported: 03/03/2017 Sampling Type: Soil

Project Name: RUSTLER BLUFF 33 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: SP6 @ 1' (H700472-20)

Project Location:

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	02/27/2017	ND	2.05	103	2.00	2.02	
Toluene*	0.060	0.050	02/27/2017	ND	1.92	96.2	2.00	2.79	
Ethylbenzene*	0.055	0.050	02/27/2017	ND	1.90	94.9	2.00	1.87	
Total Xylenes*	0.500	0.150	02/27/2017	ND	5.40	90.0	6.00	1.94	
Total BTEX	0.615	0.300	02/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 103 % 73.6-140

MALAGA

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	02/27/2017	ND	432	108	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	54.8	10.0	02/28/2017	ND	173	86.4	200	2.38	
DRO >C10-C28	835	10.0	02/28/2017	ND	166	83.2	200	8.09	

Surrogate: 1-Chlorooctane 102 % 25.1-158 Surrogate: 1-Chlorooctadecane 99.5 % 26.8-170

Sample ID: SP6 @ 2' (H700472-21)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	02/27/2017	ND	432	108	400	0.00	

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Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/24/2017 Sampling Date: 02/23/2017

Reported: 03/03/2017 Sampling Type: Soil

Project Name: RUSTLER BLUFF 33 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA

Sample ID: SP6 @ 3' (H700472-22)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/27/2017	ND	432	108	400	0.00	

Sample ID: NORTH @ SURFACE (H700472-23)

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	02/27/2017	ND	2.05	103	2.00	2.02	
Toluene*	<0.050	0.050	02/27/2017	ND	1.92	96.2	2.00	2.79	
Ethylbenzene*	<0.050	0.050	02/27/2017	ND	1.90	94.9	2.00	1.87	
Total Xylenes*	<0.150	0.150	02/27/2017	ND	5.40	90.0	6.00	1.94	
Total BTEX	<0.300	0.300	02/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 98.9 % 73.6-140

Surrogaie: 4-bromojiuorovenzene (F1D	90.9	70 /3.0-14	U						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/27/2017	ND	432	108	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	02/28/2017	ND	173	86.4	200	2.38	
DRO >C10-C28	<10.0	10.0	02/28/2017	ND	166	83.2	200	8.09	
Surrogate: 1-Chlorooctane	86.4	% 25.1-15	8						

Surrogate: 1-Chlorooctane 86.4 % 25.1-158
Surrogate: 1-Chlorooctadecane 80.2 % 26.8-170

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Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/24/2017 Sampling Date: 02/23/2017

Reported: 03/03/2017 Sampling Type: Soil

Project Name: RUSTLER BLUFF 33 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA

Sample ID: EAST @ SURFACE (H700472-24)

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	02/27/2017	ND	2.05	103	2.00	2.02	
Toluene*	<0.050	0.050	02/27/2017	ND	1.92	96.2	2.00	2.79	
Ethylbenzene*	< 0.050	0.050	02/27/2017	ND	1.90	94.9	2.00	1.87	
Total Xylenes*	<0.150	0.150	02/27/2017	ND	5.40	90.0	6.00	1.94	
Total BTEX	<0.300	0.300	02/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/27/2017	ND	432	108	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	02/28/2017	ND	173	86.4	200	2.38	
DRO >C10-C28	<10.0	10.0	02/28/2017	ND	166	83.2	200	8.09	
Surrogate: 1-Chlorooctane	75.6 9	25.1-15	8						
Surrogate: 1-Chlorooctadecane	73.5 9	% 26.8-17	0						

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Fax To: (575) 397-0397

Received: 02/24/2017 Sampling Date: 02/23/2017

Reported: 03/03/2017 Sampling Type: Soil

Project Name: **RUSTLER BLUFF 33** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: MALAGA

Sample ID: WEST @ SURFACE (H700472-25)

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	02/27/2017	ND	2.05	103	2.00	2.02	
Toluene*	<0.050	0.050	02/27/2017	ND	1.92	96.2	2.00	2.79	
Ethylbenzene*	<0.050	0.050	02/27/2017	ND	1.90	94.9	2.00	1.87	
Total Xylenes*	<0.150	0.150	02/27/2017	ND	5.40	90.0	6.00	1.94	
Total BTEX	<0.300	0.300	02/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/27/2017	ND	432	108	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	02/28/2017	ND	173	86.4	200	2.38	
DRO >C10-C28	<10.0	10.0	02/28/2017	ND	166	83.2	200	8.09	
Surrogate: 1-Chlorooctane	80.5	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	72.7	% 26.8-17	0						

Surrogate: 1-Chlorooctadecane 72.7 % 26.8-170

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P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/24/2017 Sampling Date: 02/23/2017

Reported: 03/03/2017 Sampling Type: Soil

Project Name: **RUSTLER BLUFF 33** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: MALAGA

Sample ID: SOUTH @ SURFACE (H700472-26)

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	02/27/2017	ND	2.05	103	2.00	2.02	
Toluene*	<0.050	0.050	02/27/2017	ND	1.92	96.2	2.00	2.79	
Ethylbenzene*	<0.050	0.050	02/27/2017	ND	1.90	94.9	2.00	1.87	
Total Xylenes*	<0.150	0.150	02/27/2017	ND	5.40	90.0	6.00	1.94	
Total BTEX	<0.300	0.300	02/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/27/2017	ND	432	108	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	02/28/2017	ND	173	86.4	200	2.38	
DRO >C10-C28	<10.0	10.0	02/28/2017	ND	166	83.2	200	8.09	
Surrogate: 1-Chlorooctane	78.3	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	74.0	% 26.8-17	0						

Surrogate: 1-Chlorooctadecane 74.0 % 26.8-170

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476		ANIAI VOIS REQUEST
Company Name: RRC International, Inc.	BILL TO	ANALIGIO REGOTO:
Conference	D #:	
Project Manager: Cliff Brunson	P.O. #:	
•		
Address: P.O. Box 805	Company:	
Linkho NM Zin: 88241	Attn:	
City: 1 10000		
Phone #: 575-397-6388 Fax #: 575-397-0397	Address:	
Project Owner: (MEVION	City:	
,		

ne: BBC International, jer: Cliff Brunson O. Box 805	P.O. #: Company:		NAME OF THE PARTY
yer: Cliff Brunson O. Box 805	P.O. #: Company:		
O. Box 805	Company:	_	
e. NM			
State: INIVI	Attn:	_	
Phone #: 575-397-6388 Fax #: 575-397-0397	Address:	_	
Project #: Project Owner: Cheyron	City:	_	
ame: Rustle 8/2	State: Zip:	>	
Sociant Location: May 19 A 2	Phone #:		
Sampler Name:		E	
Sampler Name: // // MATRIX	PRESERV. SAMPLING	4	
	THER: CID/BASE: DE / COOL THER:	1P1 137	
# C GR WA SO OIL	AC C ICE		
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analyses. All claims including those for negligence and any other cause whatsoever state be deemed waveruniness invested in the claims including those for negligence and any other cause whatsoever state be deemed waveruniness interruptions, loss of use, or loss of profits incurred by cleint, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by cleint, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by cleint, its subsidiaries, service.	ns, loss of use, or loss of profits incurred by client, its subsidiaries, im is based upon any of the above stated reasons or otherwise.		1
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Sampler - UPS - Bus - Other:	No 10 #75		

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476		ANALYSIS DECLIEST
ompany Name: BBC International, Inc.	BILL TO	ANALISIS REGION
950	P.O. #:	
30x 805	Company:	
bbs State: NM Zip:	88241 Attn:	
5-397-6388 F	397 Address:	
Project Owner:	MEYON City:	
roject Name: Prostler 8/4 33	State: Zip:	
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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 the client for the 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 the client for the 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 the client for the 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 the client for the 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 the client for the 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 the client for the 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 liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the liability and client's exclusive remedy for any client arising any client arising and client's exclusive remedy for any client arising any client arising any client arising ari	arising whether based in contract or ton, shall be limited to the amount paid by the client for the waived unless made in writing and received by Cardinal within 30 days after completion of the a limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries	he applicable es.
Relinquished By: Time:	read, regardless of whether such dalm is based upon any of the above stated readers were readers. Received By: Fax Result: REMARKS:	ult: ☐ Yes ☐ No Add'I Phone #: Yes ☐ No Add'I Fax #:
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Delivered By: (Circle One)	Cool Intact	
Sampler - UPS - Bus - Other: -1.22		

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(200) 283-525 (200) 200 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		201 40	ANALISIS	NEW CEST
Company Name: BBC International, Inc.	ational, Inc.	BILLIO		
Project Manager: Cliff Brunson	ň	P.O. #:		
Address: P.O. Box 805		Company:		
city: Hobbs	State: NM Zip: 88241	Attn:		
Phone #: 575-397-6388	Fax #: 575-397-0397	Address:		
Project #:	Project Owner: Charles	City:		
Project Name: P +/	R1. # 33	State: Zip:		
Project Location:	1000	Phone #:	×	
Sampler Name:	show.	Fax#:		
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the new risk to new risk arising whether based in contract or tort, shall be limited to the amount paid by the client for the		Total to the Page Plant I	for the	

Sample Condition
Cool Intact
Pes Tyes
No No

CHECKED BY: (Initials)

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

analyses. All claims including those for service. In no event shall Cardinal be affiliales or successors arising out of or Relinquished By:

Date: Time:

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes

O No

Add'l Phone #: Add'l Fax #:

Received By:

Refindurshed By

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

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141

Revised August 8, 2011

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

Release Notification and Corrective Action

										al Report		Final Report	
Name of Company: CHEVRON USA, INC.						Contact: Josepha DeLeon							
Address: 6301 Deauville Blvd., Midland, TX 79706						Telephone No.: ofc.575-263-0424; mobile 432-425-1528							
Facility Name Rustler Bluff 33 Facility Type: Oil													
Surface Owner: Federal Mineral Owner:						Private API No. 30-015-42670							
	LOCATION OF RELEASE												
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/V	Vest Line	County			
В	33	24S	29E	129	North	2035 East				Eddy			
	Latitude: 32.1659313086802 Longitude: 103.987380063379												
				NAT	URE	OF REL	EASE						
Type of Rele	ase: Spill			1,122	0112	Volume of Release: Volume Recovered: REVISE					ED		
			37.87 barrels water			36 barrels							
				12.62 barrels oil			12. barrels oil						
Source of Release: Stuffing Box						Date and Hour of Occurrence:				Hour of Disc			
Was Immediate Notice Given?							7: 08:00 AM		02/18/201	7; 08:00 AN	1		
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required						If YES, To NMOCD -	Randy Bayliss vo	oicemail	and Heath	er Patterson	email f	follow up	
						BLM - She	lly Tucker					•	
By Whom? Josepha DeLeon Was a Watercourse Reached?							lour: 02/18/2017:						
Was a Watercourse Reached? ☐ Yes ☐ No						N/A	lume Impacting t	ne wate	ercourse.				
If a Watercourse was Impacted, Describe Fully.*													
N/A													
Describe Cau	Describe Cause of Problem and Remedial Action Taken.*												
Spill from stu	Spill from stuffing box into secondary containment. All fluid was recovered.												
Describe Are	Describe Area Affected and Cleanup Action Taken.*												
Vacuum truc	k extracted	all fluid.											
I hereby certi	fy that the i	nformation gi	ven above	is true and compl	ete to th	ne best of my	knowledge and u	nderstar	nd that purs	suant to NMO	OCD rt	iles and	
				nd/or file certain re									
				e of a C-141 repor									
				investigate and re									
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.													
OH CONCEDIATION DIVISION													
Gil Conservation Division													
Signature:	U						.						
							Approved by Environmental Specialist:						
							Approval Date: Expiration Date:						
			PPOIL D			••							
E-mail Address: jdxd@chevron.com Conditions of Approval: Attached													
Date:	Attached												

^{*} Attach Additional Sheets If Necessary