

Closure Report

Site Description

Site Name:	Catclaw Draw Unit #18
Company:	Chevron USA
Legal Description:	U/L D, Section 23, T21S, R25E
County:	Eddy County, NM
GPS Coordinates:	N 32.46819° W 104.36961°

Release Data

Date of Release:	12/02/2012
Type of Release:	Oil and produced water
Source of Release:	Tank Valve
Volume of Release:	3.18 bbls oil, 4.77 bbls produced water
Volume Recovered:	5 bbls total fluids

Remediation Specifications

Remediation Parameters:	Upon review of the laboratory results from the delineation, it was determined that no remediation was necessary.	
Remediation Activities:	n/a	
Plan Sent to OCD:	n/a	n/a
OCD Approval of Plan:	n/a	n/a
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

Supporting Documentation

Initial C-141	Signed 12/03/2012
Final C-141	Signed 08/30/2016
Site Diagram	May 2016
Groundwater Plot	<50'
TOPO Maps	May 2016
Lab Summary	05/16/2016
Lab Analysis	05/16/2016
Correspondence	Request and approval of remediation plan via email

Request for Closure

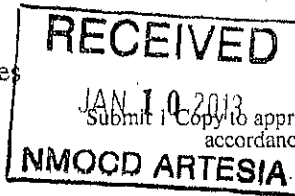
Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

08/30/2016

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



Form C-141
Revised August 8, 2011

Release Notification and Corrective Action

JMW 1301853525 **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company: Chevron USA 241333	Contact: Amy Barnhill
Address: 2401 Avenue O Eunice, NM 88231	Telephone No.: 432-940-8524
Facility Name: Catclaw Draw Unit #18	Facility Type: Tank Battery
Surface Owner: State of NM	Mineral Owner: State of NM
API No. 30-015-33320	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	23	21-S	25-E		1310		1310	Eddy

Latitude: 32.46832 Longitude: -104.36972

NATURE OF RELEASE

Type of Release: Oil and Water	Volume of Release: 951	Volume Recovered: 5bbls
Source of Release: Tank Valve	Date and Hour of Occurrence: 12-2-2012	Date and Hour of Discovery: 12-2-2012 @ 11:48am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Called 575-393-6161 E.L. Gonzales	
By Whom? Amy Barnhill	Date and Hour: 12-3-2012 @ 2:48pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A ball valve in the back of the tank has a hole in it. F.S. found the leak at 11:48 am. He immediately plugged the valve and called a vacuum truck

Describe Area Affected and Cleanup Action Taken.*

A vacuum truck picked up a total of 5 bbls fluid and 2.951 bbls soaked into the gravel. Further remediation will be performed in accordance with a NMOCD approved remediation plan.

Total spill volume was **7.95** Bbls, 4.77 water and 3.18 oil.

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

OIL CONSERVATION DIVISION

Signature:	Approved by Environmental Specialist: Signed By <i>[Signature]</i>
Printed Name: Amy Barnhill	Approval Date: JAN 18 2013 Expiration Date:
Title: HE Specialist	Conditions of Approval: Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: February 18 2013
E-mail Address: ABarnhill@chevron.com	Attached <input type="checkbox"/>
Date: 12-3-2012 Phone: 432-940-8524	

* Attach Additional Sheets If Necessary

2RP-1507

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

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Chevron USA	Contact: Stephen Gwin	
Address: 1616 W. Bender Blvd., Hobbs, NM 88240	Telephone No. (575) 263-0427	
Facility Name: Catclaw Draw Unit #18	Facility Type: Tank Battery	
Surface Owner: State of NM	Mineral Owner: State of NM	API No. 30-015-33320

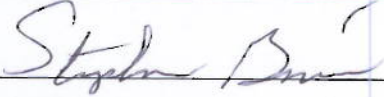
LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	23	21S	25E					Eddy County, NM

Latitude N 32.46832° Longitude W -104.36972

NATURE OF RELEASE

Type of Release: Oil and Produced water	Volume of Release: 3.18 bbls oil, 4.77 bbls produced water	Volume Recovered 5 bbls
Source of Release: Tank Valve	Date and Hour of Occurrence 12/02/2012	Date and Hour of Discovery 12/02/2012 @ 11:48 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? E.L. Gonzales	
By Whom? Amy Barnhill	Date and Hour: 12/03/2012 @ 2:48 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* A ball valve in the back of the tank has a hole in it. A field supervisor found the leak at 11:48 am. He immediately plugged the valve and called a vacuum truck that recovered 5 bbls of free-standing fluids.		
Describe Area Affected and Cleanup Action Taken.* The affected area is located inside the firewall on location. Sampling revealed that further remediation was not required/necessary. Therefore, it was determined that the best course of action was to simply close the event.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

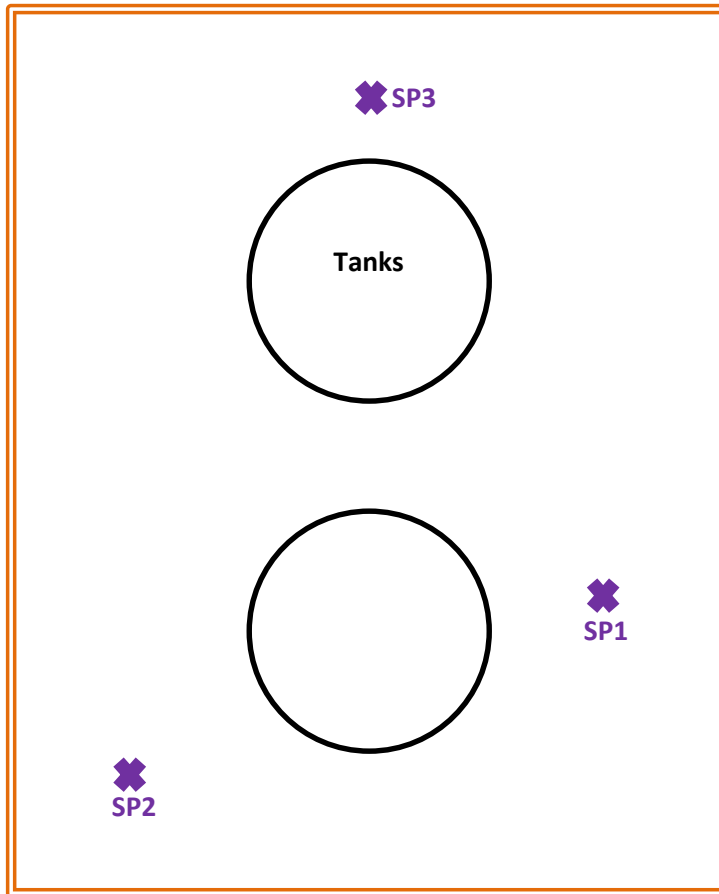
Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Stephen Gwin		Approved by Environmental Specialist:	
Title: Health and Environmental Specialist		Approval Date:	Expiration Date:
E-mail Address: <u>Stephen.Gwin@chevron.com</u>		Conditions of Approval:	
Date: <u>8/30/2016</u> Phone: (575) 263-0427		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary



Chevron
Cat Claw Draw Unit #18

Firewall



U/L D, Section 23, T21S, R25E

Eddy County, NM

N 32.46819° W 104.36961°

API# 30-015-22157

BBC International, Inc.

Chevron

Cat Claw Draw Unit #18

Date: 05/23/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Chevron 2016



Groundwater Plot

Chevron CatClaw Draw Unit #18

County
Eddy

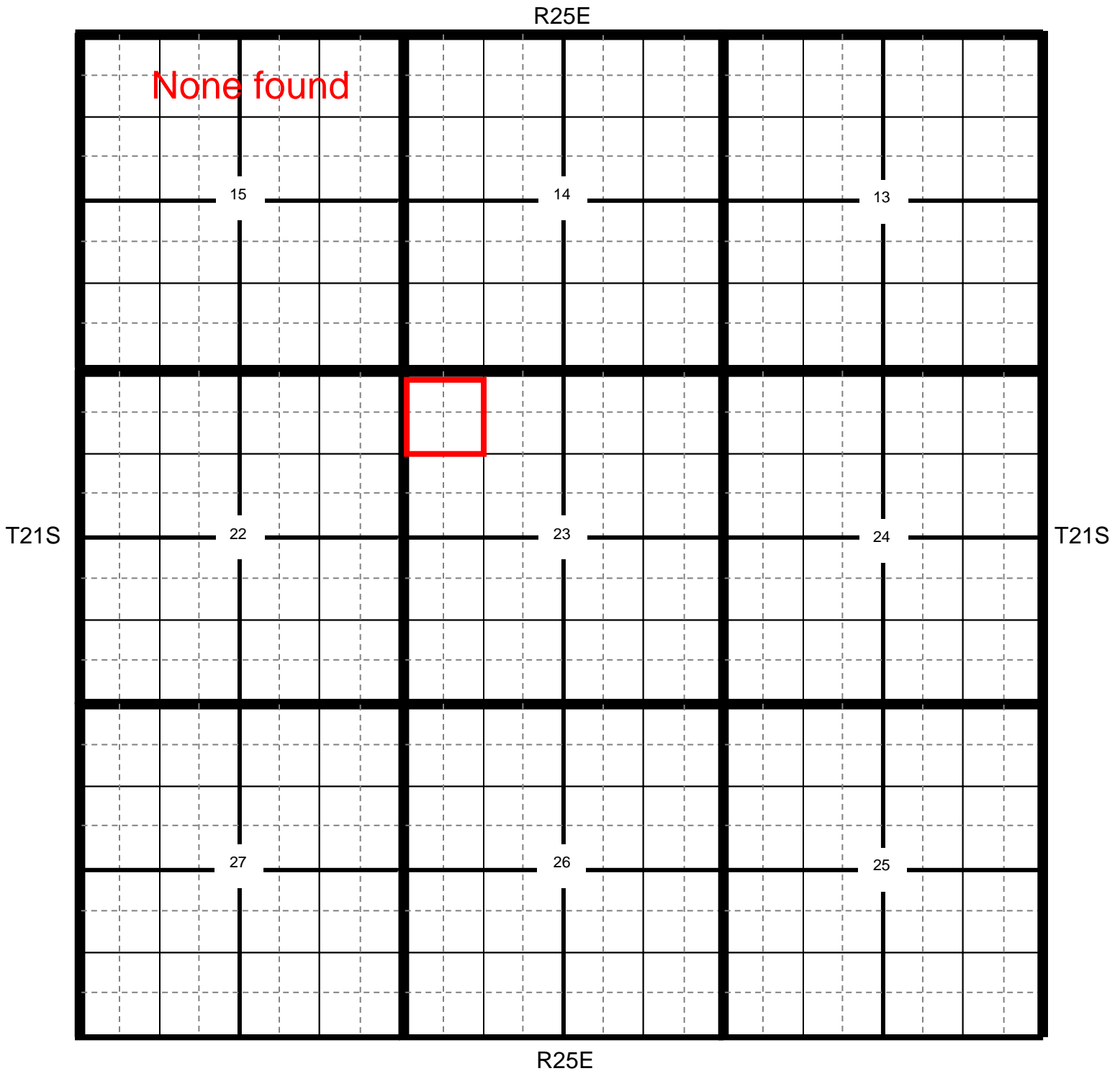
Unit Letter
D

Section
23

Township
T21S

Range
R25E

Trend Map <50'



★ Location

● OCD

● USGS

● SEO

● All Databases

Chevron CatClaw Draw Unit #18

County Eddy Unit Letter D Section 23 Township T21S Range 25E

Trend Map <50'

1

2

NW/NW Unit Letter D	NE/NW Unit Letter C	NW/NE Unit Letter B	NE/NE None found
SW/NW Unit Letter E	SE/NW Unit Letter F	SW/NE Unit Letter G	SE/NE Unit Letter H
NW/SW Unit Letter L	NE/SW Unit Letter K	NW/SE Unit Letter J	NE/SE Unit Letter I
SW/SW Unit Letter M	SE/SW Unit Letter N	SW/SE Unit Letter O	SE/SE Unit Letter P

3

4

**Laboratory Analytical Results Summary
Cat Claw Draw Unit #18**

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'
Analyte	Method	Date	5/16/16	5/16/16	5/16/16	5/16/16	5/16/16	5/16/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	1.69	0.074	0.082	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	<16.0	<16.0	16	64	
GRO	TPH 8015M		<10.0	66.8	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		21.5	786	31.5	12.6	49.4	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'
Analyte	Method	Date	5/16/16	5/16/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	16
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		103	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	5/16/16	5/16/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	16
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		102	<10.0



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

May 19, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CAT CLAW #18

Enclosed are the results of analyses for samples received by the laboratory on 05/17/16 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/17/2016
Reported: 05/19/2016
Project Name: CAT CLAW #18
Project Number: NONE GIVEN
Project Location: CHEVRON

Sampling Date: 05/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H601082-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2016	ND	2.14	107	2.00	2.44	
Toluene*	<0.050	0.050	05/18/2016	ND	2.07	104	2.00	2.64	
Ethylbenzene*	<0.050	0.050	05/18/2016	ND	1.86	93.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	05/18/2016	ND	5.79	96.5	6.00	1.97	
Total BTX	<0.300	0.300	05/18/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/18/2016	ND	416	104	400	7.41	

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	05/17/2016	ND	184	91.8	200	5.76	
DRO >C10-C28	21.5	10.0	05/17/2016	ND	206	103	200	4.49	

Surrogate: 1-Chlorooctane 72.7 % 35-147

Surrogate: 1-Chlorooctadecane 86.0 % 28-171

Cardinal Laboratories

*=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: 05/17/2016
Reported: 05/19/2016
Project Name: CAT CLAW #18
Project Number: NONE GIVEN
Project Location: CHEVRON

Sampling Date: 05/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H601082-02)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2016	ND	2.14	107	2.00	2.44	
Toluene*	<0.050	0.050	05/18/2016	ND	2.07	104	2.00	2.64	
Ethylbenzene*	1.69	0.500	05/19/2016	ND	1.86	93.0	2.00	2.09	
Total Xylenes*	<1.50	1.50	05/19/2016	ND	5.79	96.5	6.00	1.97	
Total BTX	<3.00	3.00	05/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 163 % 73.6-140

Chloride, SM4500CI-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/18/2016	ND	416	104	400	7.41	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	66.8	10.0	05/17/2016	ND	184	91.8	200	5.76	
DRO >C10-C28	786	10.0	05/17/2016	ND	206	103	200	4.49	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 96.5 % 28-171

Cardinal Laboratories

*=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:	05/17/2016	Sampling Date:	05/16/2016
Reported:	05/19/2016	Sampling Type:	Soil
Project Name:	CAT CLAW #18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CHEVRON		

Sample ID: SP 1 @ 2' (H601082-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2016	ND	2.14	107	2.00	2.44	
Toluene*	<0.050	0.050	05/18/2016	ND	2.07	104	2.00	2.64	
Ethylbenzene*	0.074	0.050	05/18/2016	ND	1.86	93.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	05/18/2016	ND	5.79	96.5	6.00	1.97	
Total BTEx	<0.300	0.300	05/18/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/18/2016	ND	416	104	400	7.41		

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	05/17/2016	ND	184	91.8	200	5.76	
DRO >C10-C28	31.5	10.0	05/17/2016	ND	206	103	200	4.49	

Surrogate: 1-Chlorooctane 81.3 % 35-147

Surrogate: 1-Chlorooctadecane 86.4 % 28-171

Cardinal Laboratories

*=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: 05/17/2016
Reported: 05/19/2016
Project Name: CAT CLAW #18
Project Number: NONE GIVEN
Project Location: CHEVRON

Sampling Date: 05/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 3' (H601082-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2016	ND	2.14	107	2.00	2.44	
Toluene*	<0.050	0.050	05/18/2016	ND	2.07	104	2.00	2.64	
Ethylbenzene*	0.082	0.050	05/18/2016	ND	1.86	93.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	05/18/2016	ND	5.79	96.5	6.00	1.97	
Total BTEx	<0.300	0.300	05/18/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/18/2016	ND	416	104	400	7.41		

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	05/17/2016	ND	184	91.8	200	5.76	
DRO >C10-C28	12.6	10.0	05/17/2016	ND	206	103	200	4.49	

Surrogate: 1-Chlorooctane 81.0 % 35-147

Surrogate: 1-Chlorooctadecane 95.8 % 28-171

Cardinal Laboratories

*=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: 05/17/2016
Reported: 05/19/2016
Project Name: CAT CLAW #18
Project Number: NONE GIVEN
Project Location: CHEVRON

Sampling Date: 05/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 4' (H601082-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2016	ND	2.14	107	2.00	2.44		
Toluene*	<0.050	0.050	05/18/2016	ND	2.07	104	2.00	2.64		
Ethylbenzene*	<0.050	0.050	05/18/2016	ND	1.86	93.0	2.00	2.09		
Total Xylenes*	<0.150	0.150	05/18/2016	ND	5.79	96.5	6.00	1.97		
Total BTEx	<0.300	0.300	05/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/18/2016	ND	416	104	400	7.41	

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	05/17/2016	ND	184	91.8	200	5.76	
DRO >C10-C28	49.4	10.0	05/17/2016	ND	206	103	200	4.49	

Surrogate: 1-Chlorooctane 90.4 % 35-147

Surrogate: 1-Chlorooctadecane 110 % 28-171

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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: 05/17/2016
Reported: 05/19/2016
Project Name: CAT CLAW #18
Project Number: NONE GIVEN
Project Location: CHEVRON

Sampling Date: 05/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 5' (H601082-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2016	ND	2.14	107	2.00	2.44		
Toluene*	<0.050	0.050	05/18/2016	ND	2.07	104	2.00	2.64		
Ethylbenzene*	<0.050	0.050	05/18/2016	ND	1.86	93.0	2.00	2.09		
Total Xylenes*	<0.150	0.150	05/18/2016	ND	5.79	96.5	6.00	1.97		
Total BTEx	<0.300	0.300	05/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/18/2016	ND	416	104	400	7.41	

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	05/17/2016	ND	184	91.8	200	5.76	
DRO >C10-C28	<10.0	10.0	05/17/2016	ND	206	103	200	4.49	

Surrogate: 1-Chlorooctane 82.8 % 35-147

Surrogate: 1-Chlorooctadecane 98.3 % 28-171

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Analytical Results For:

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

Received: 05/17/2016
Reported: 05/19/2016
Project Name: CAT CLAW #18
Project Number: NONE GIVEN
Project Location: CHEVRON

Sampling Date: 05/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ SURFACE (H601082-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2016	ND	2.14	107	2.00	2.44	
Toluene*	<0.050	0.050	05/18/2016	ND	2.07	104	2.00	2.64	
Ethylbenzene*	<0.050	0.050	05/18/2016	ND	1.86	93.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	05/18/2016	ND	5.79	96.5	6.00	1.97	
Total BTX	<0.300	0.300	05/18/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/18/2016	ND	416	104	400	7.41		

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	05/17/2016	ND	184	91.8	200	5.76	
DRO >C10-C28	103	10.0	05/17/2016	ND	206	103	200	4.49	

Surrogate: 1-Chlorooctane 80.3 % 35-147

Surrogate: 1-Chlorooctadecane 99.7 % 28-171

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Analytical Results For:

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

Received: 05/17/2016
Reported: 05/19/2016
Project Name: CAT CLAW #18
Project Number: NONE GIVEN
Project Location: CHEVRON

Sampling Date: 05/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H601082-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2016	ND	2.14	107	2.00	2.44		
Toluene*	<0.050	0.050	05/18/2016	ND	2.07	104	2.00	2.64		
Ethylbenzene*	<0.050	0.050	05/18/2016	ND	1.86	93.0	2.00	2.09		
Total Xylenes*	<0.150	0.150	05/18/2016	ND	5.79	96.5	6.00	1.97		
Total BTEx	<0.300	0.300	05/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/18/2016	ND	416	104	400	7.41	

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	05/17/2016	ND	184	91.8	200	5.76	
DRO >C10-C28	<10.0	10.0	05/17/2016	ND	206	103	200	4.49	

Surrogate: 1-Chlorooctane 73.6 % 35-147

Surrogate: 1-Chlorooctadecane 95.1 % 28-171

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Analytical Results For:

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

Received: 05/17/2016
Reported: 05/19/2016
Project Name: CAT CLAW #18
Project Number: NONE GIVEN
Project Location: CHEVRON

Sampling Date: 05/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H601082-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2016	ND	2.14	107	2.00	2.44	
Toluene*	<0.050	0.050	05/18/2016	ND	2.07	104	2.00	2.64	
Ethylbenzene*	<0.050	0.050	05/18/2016	ND	1.86	93.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	05/18/2016	ND	5.79	96.5	6.00	1.97	
Total BTX	<0.300	0.300	05/18/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/18/2016	ND	416	104	400	3.77	

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	05/17/2016	ND	184	91.8	200	5.76	
DRO >C10-C28	102	10.0	05/17/2016	ND	206	103	200	4.49	

Surrogate: 1-Chlorooctane 78.2 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

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Analytical Results For:

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

Received: 05/17/2016
Reported: 05/19/2016
Project Name: CAT CLAW #18
Project Number: NONE GIVEN
Project Location: CHEVRON

Sampling Date: 05/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H601082-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2016	ND	2.14	107	2.00	2.44		
Toluene*	<0.050	0.050	05/18/2016	ND	2.07	104	2.00	2.64		
Ethylbenzene*	<0.050	0.050	05/18/2016	ND	1.86	93.0	2.00	2.09		
Total Xylenes*	<0.150	0.150	05/18/2016	ND	5.79	96.5	6.00	1.97		
Total BTEx	<0.300	0.300	05/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/18/2016	ND	416	104	400	3.77	

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	05/17/2016	ND	184	91.8	200	5.76	
DRO >C10-C28	<10.0	10.0	05/17/2016	ND	206	103	200	4.49	

Surrogate: 1-Chlorooctane 73.2 % 35-147

Surrogate: 1-Chlorooctadecane 94.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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: Cat Claw #18

Project Location:

Sampler Name: Price Brunson

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

HL01842

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING
1	SP1 @ Surface	G	1	GROUNDWATER		DATE
2	SP1 @ 1'	G	1	WASTEWATER		TIME
3	SP1 @ 2'	G	1	SOIL		
4	SP1 @ 3'	G	1	SOIL		
5	SP1 @ 4'	G	1	SOIL		
6	SP1 @ 5'	G	1	SOIL		
7	SP2 @ Surface	G	1	SLUDGE		
8	SP2 @ 1'	G	1	OTHER :		
9	SP3 @ Surface	G	1	ACID/BASE:		
10	SP3 @ 1'	G	1	ICE / COOL		
				OTHER :		

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Relinquished By:

Date: 5/16/16
Time: 11:30pm

Received By:

Date: 5/16/16
Time: 2:35pm

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

5.20c

5.30c

#54

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

BILL TO

ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

TPH
BTEX
CL

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

REMARKS: