

# 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

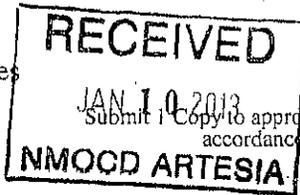
Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

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

**njmw1301853525** OPERATOR  Initial Report  Final Report

Name of Company: Chevron USA <b>241333</b>	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. <b>30-015-33320</b>	

### 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: <b>951</b>	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:

Printed Name: Amy Barnhill

Approved by Environmental Specialist: Signed By *[Signature]*

Title: HE Specialist

Approval Date: **JAN 18 2013**

Expiration Date:

E-mail Address: ABarnhill@chevron.com

Conditions of Approval:

Attached

Date: 12-3-2012

Phone: 432-940-8524

Remediation per OCD Rule & Guidelines. **SUBMIT REMEDIATION PROPOSAL NO LATER THAN: February 18 2013**

**2RP-1507**

\* Attach Additional Sheets If Necessary

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

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised August 8, 2011

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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: 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
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**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.

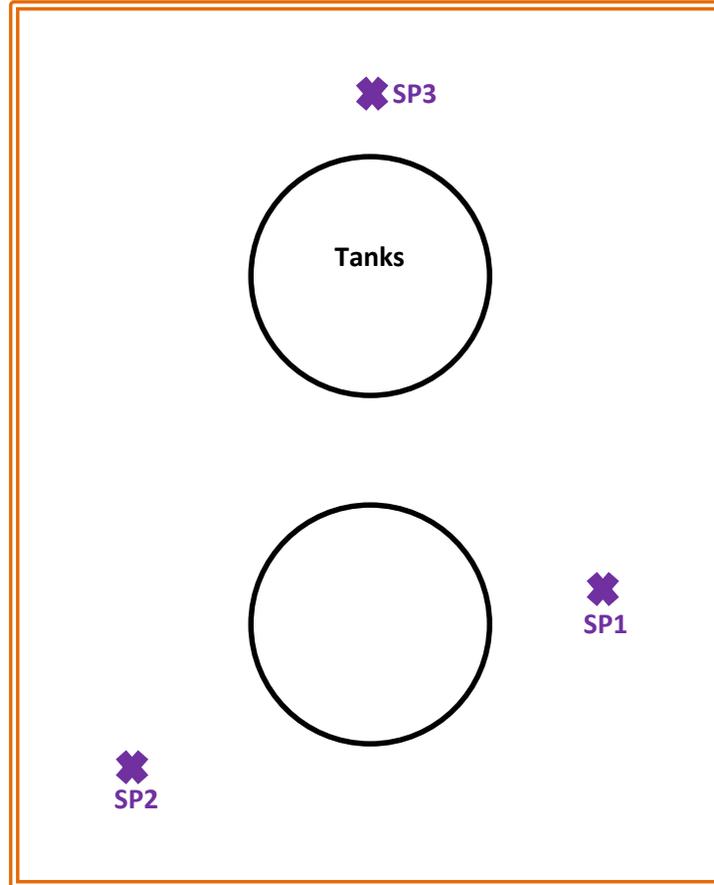
Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Stephen Gwin	Approved by Environmental Specialist:	
Title: Health and Environmental Specialist	Approval Date:	Expiration Date:
E-mail Address: <a href="mailto:Stephen.Gwin@chevron.com">Stephen.Gwin@chevron.com</a>	Conditions of Approval:	
Date: <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

<b>BBC International, Inc.</b>	
<b>Chevron</b>	
<b>Cat Claw Draw Unit #18</b>	
Date: 05/23/2016	DRWG by: K. Purvis
NOT TO SCALE	File: Chevron 2016



# Groundwater Plot

## Chevron CatClaw Draw Unit #18

County  
Eddy

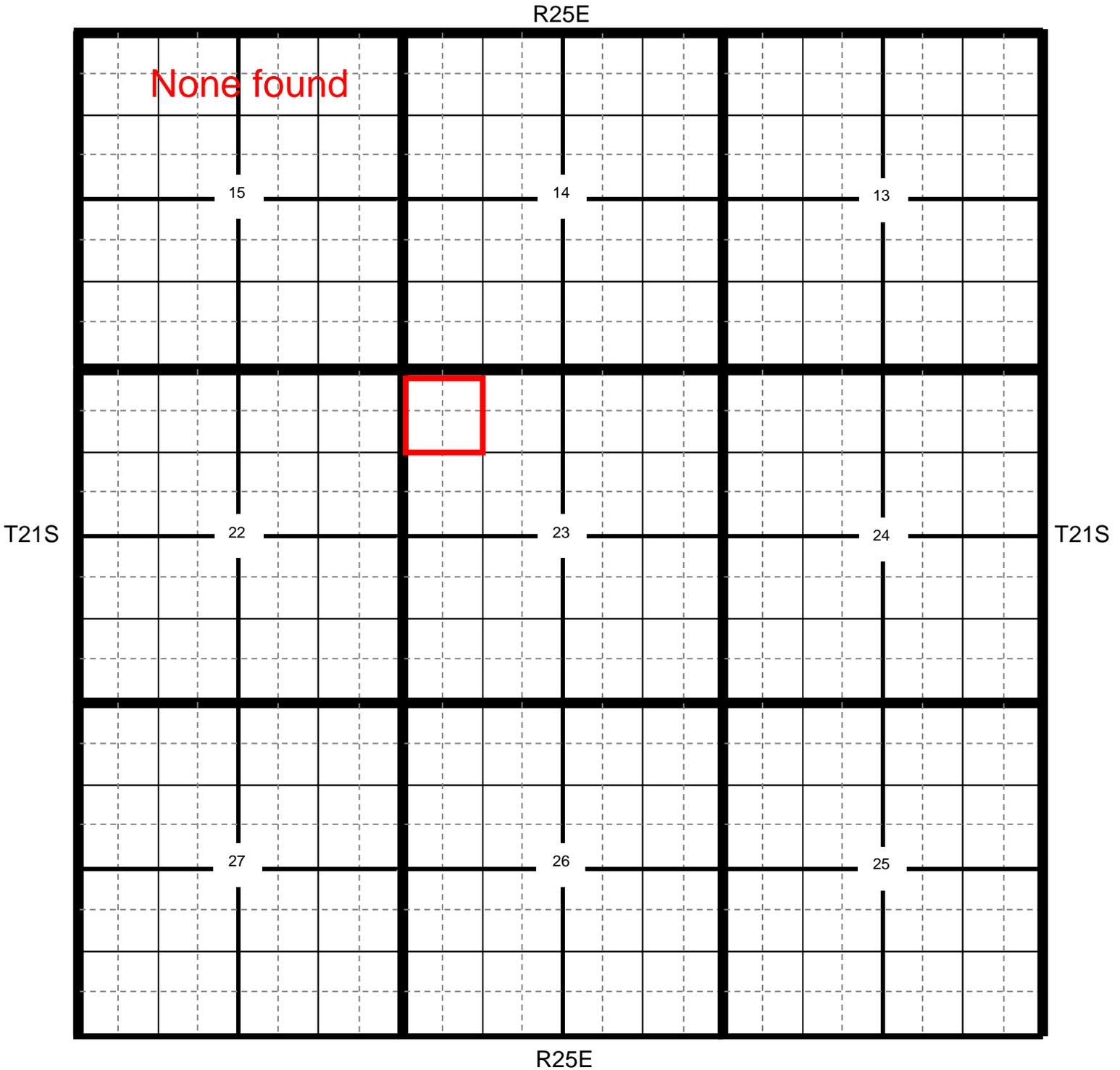
Unit Letter  
D

Section  
23

Township  
T21S

Range  
R25E

Trend Map <50'



📍 Location

● OCD

● USGS

● SEO

● All Databases

## Chevron CatClaw Draw Unit #18

<b>County</b> Eddy	<b>Unit Letter</b> D	<b>Section</b> 23	<b>Township</b> T21S	<b>Range</b> 25E
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Trend Map <50'

1

2

<div style="border: 2px solid red; padding: 5px;">NW/NW</div>  Unit Letter D	NE/NW	NW/NE	NE/NE <span style="color: red; font-weight: bold; font-size: 1.2em;">None found</span>
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	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
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<b>1.69</b>	<b>0.074</b>	<b>0.082</b>	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<16.0	<16.0	<16.0	<b>16</b>	<b>64</b>	
<b>GRO</b>	TPH 8015M		<10.0	<b>66.8</b>	<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>21.5</b>	786	<b>31.5</b>	<b>12.6</b>	<b>49.4</b>	<10.0

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

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

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](http://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:	05/17/2016	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 @ SURFACE (H601082-01)**

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) 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		
<b>DRO &gt;C10-C28</b>	<b>21.5</b>	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	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 @ 1' (H601082-02)**

BTEX 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	
<b>Ethylbenzene*</b>	<b>1.69</b>	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 BTEX	<3.00	3.00	05/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 163 % 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
<b>GRO C6-C10</b>	<b>66.8</b>	10.0	05/17/2016	ND	184	91.8	200	5.76	
<b>DRO &gt;C10-C28</b>	<b>786</b>	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	
<b>Ethylbenzene*</b>	<b>0.074</b>	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, 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	
<b>DRO &gt;C10-C28</b>	<b>31.5</b>	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*

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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:	05/17/2016	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 @ 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	
<b>Ethylbenzene*</b>	<b>0.082</b>	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, 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	
<b>DRO &gt;C10-C28</b>	<b>12.6</b>	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	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 @ 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, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	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	
<b>DRO &gt;C10-C28</b>	<b>49.4</b>	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	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 @ 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, SM4500Cl-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	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 2 @ SURFACE (H601082-07)**

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) 99.9 % 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		
<b>DRO &gt;C10-C28</b>	<b>103</b>	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	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 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, 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	<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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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 3 @ SURFACE (H601082-09)**

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) 99.7 % 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	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		
<b>DRO &gt;C10-C28</b>	<b>102</b>	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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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 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, 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	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 SM450Cl-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



**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** Attn:

City: **Hobbs** State: **NM** Zip: **88241**

Phone #: **575-397-6388** Fax #: **575-397-0397** Address:

Project #: Project Owner: **Cherren** City:

Project Name: **Cat Claw #18** State: Zip:

Project Location: Phone #:

Sampler Name: **Pricie Benson** Fax #:

FOR LAB USE ONLY

Lab I.D. **5** Sample I.D. **1**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
1	SP1 @ Surface	G	1	/	/	/	/	/	5/16/16	1015	TPH	
2	SP1 @ 1'	G	1	/	/	/	/	/	5/16/16	1030	BTEX	
3	SP1 @ 2'	G	1	/	/	/	/	/	5/16/16	1045	CL	
4	SP1 @ 3'	G	1	/	/	/	/	/	5/16/16	1105		
5	SP1 @ 4'	G	1	/	/	/	/	/	5/16/16	1115		
6	SP1 @ 5'	G	1	/	/	/	/	/	5/16/16	1135		
7	SP2 @ Surface	G	1	/	/	/	/	/	5/16/16	1150		
8	SP2 @ 1'	G	1	/	/	/	/	/	5/16/16	110		
9	SP3 @ Surface	G	1	/	/	/	/	/	5/16/16	150		
10	SP3 @ 1'	G	1	/	/	/	/	/	5/16/16	220		

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Relinquished By: [Signature] Date: **5/16/16** Time: **11:30pm** Received By: [Signature] Date: **5/16/16** Time: **2:35pm**

Delivered By: (Circle One) **UPS** - UPS - Bus - Other: **5.20c** Sample Condition:  Intact  Cool  Yes  No

Checked By: [Signature] **Cherren**

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

**5.30c** **#54**