

# Closure Report

## Site Description

Site Name:	New Mexico DW State #002
Company:	COG Operating LLC
Legal Description:	U/L E, Section 6, T22S, R35E
County:	Lea County, NM
GPS Coordinates:	N 32.42274° W 103.41295°

## Release Data

Date of Release:	12/29/2016
Type of Release:	Oil and produced water
Source of Release:	Flow line
Volume of Release:	15 bbls oil, 6 bbls produced water
Volume Recovered:	11 bbls oil, 0 bbls produced water

## Remediation Specifications

Remediation Parameters:	Excavate the entire spill area to a depth of 1 foot. Obtain confirmation bottom and sidewall samples t 1 foot. Backfill the site with clean soil.	
Remediation Activities:	07/26/2017 to 08/04/2017	
Plan Sent to OCD:	05/22/2017	Email from Cliff Brunson to Olivia Yu
OCD Approval of Plan:	06/14/2017	Email from Olivia Yu to Cliff Brunson
Plan Sent to SLO:	05/22/2017	Email from Cliff Brunson to Amber Groves
BLM Approval of Plan:	07/06/2017	Email from Amber Groves to Cliff Brunson

## Supporting Documentation

Initial C-141	Signed 12/30/2016
Final C-141	Signed 08/23/2017
Site Diagram	February 2017
Groundwater Plot	<50'
TOPO Maps	February 2017
Lab Summary	02/08/2017, 04/26/2017, and 07/27/2017
Lab Analysis	02/08/2017, 04/26/2017, 07/27/2017
Correspondence	Request and approval of remediation plan via email

## Request for Closure

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

Cliff Brunson, President of BBC International Inc.

08/30/2017

District I  
625 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: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-683-7443
Facility Name: New Mexico DW State #002	Facility Type: Flowline

Surface Owner: State	Mineral Owner:	API No. 30-025-32467
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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
E	06	22S	35E	1980	North	660	West	Lea

Latitude 32.4227219 Longitude 103.4127121

**NATURE OF RELEASE**

Type of Release: Oil and Produced Water	Volume of Release: 15 bbls Oil & 6 bbls PW	Volume Recovered: 11 bbls Oil & 0 bbls PW
Source of Release: Flowline	Date and Hour of Occurrence: December 29, 2016 7:30 am	Date and Hour of Discovery: December 29, 2016 7:30 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
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.\*  
There was a leak at the steel to poly transition. The steel to poly transition section was replaced.

Describe Area Affected and Cleanup Action Taken.\*  
The release occurred on the well pad. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to 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: <i>Rebecca Haskell</i>	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Rebecca Haskell	Approved by Environmental Specialist:		
Title: Senior HSE Coordinator	Approval Date:	Expiration Date:	
E-mail Address: rhaskell@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 12/30/16 Phone: 432-683-7443			

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  
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: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland, TX 79701	Telephone No. 432-230-0077
Facility Name: New Mexico DW State #002	Facility Type: Flow line

Surface Owner: State	Mineral Owner:	API No. 30-025-32467
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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
E	06	22S	35E	1980	North	660	West	Lea County, NM

Latitude N 32.42274° Longitude W 103.41295°

**NATURE OF RELEASE**

Type of Release: Oil and Produced water	Volume of Release: 15 bbls oil & 6 bbls water	Volume Recovered: 11 bbls oil & 0 bbls water
Source of Release: Flow line	Date and Hour of Occurrence 12/29/2016 @ 7:30 am	Date and Hour of Discovery 12/29/2016 @ 7:30 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
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.\*  
There was a leak at the steel to poly transition. The steel to poly transition section was replaced.

Describe Area Affected and Cleanup Action Taken.\*  
The release occurred on the well pad. A vacuum truck was dispatched to remove all freestanding fluids.. The site was delineated according to OCD standards and a remediation plan was created. Remediation was completed in accordance with the remediation plan approved by Olivia Yu of NMOCD via email on 06/14/2017 and approved by Amber Groves of the SLO via email on 07/06/2017.

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: <i>Rebecca Haskell</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Rebecca Haskell	Approved by Environmental Specialist:	<i>Ashley Maxwell</i>
Title: Senior HSE Coordinator	Approval Date:	Expiration Date:
E-mail Address: rhaskell@concho.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: August 23, 2017 Phone: (432) 683-7443		

Attach Additional Sheets If Necessary

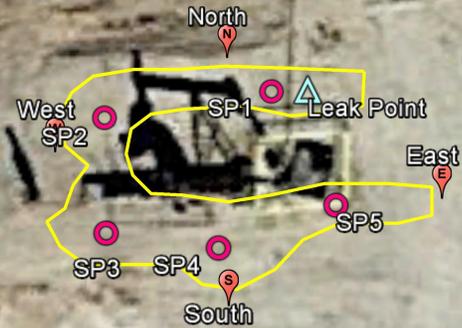
**APPROVED**  
By Ashley Maxwell at 9:01 am, Nov 10, 2022

# COG, NM DW State #002

Leak date: 12/29/2016  
Lea County, NM  
API# 30-025-34267

**Legend**

- E East Sample, hand auger
- ▲ Leak Point
- N North Sample, hand auger
- Sample points, hand auger
- S South Sample, hand auger
- Spill Area
- W West Sample, hand auger



**1 ft excavation across entire spill area**

COG, NM DW State #002

Sample points, hand auger

SP1, N 32.42281 W-103.41286

SP2, N 32.42280 W-103.41293

SP3, N 32.42276 W-103.41292

SP4, N 32.42275 W-103.41288

SP5, N 32.42277 W-103.41283

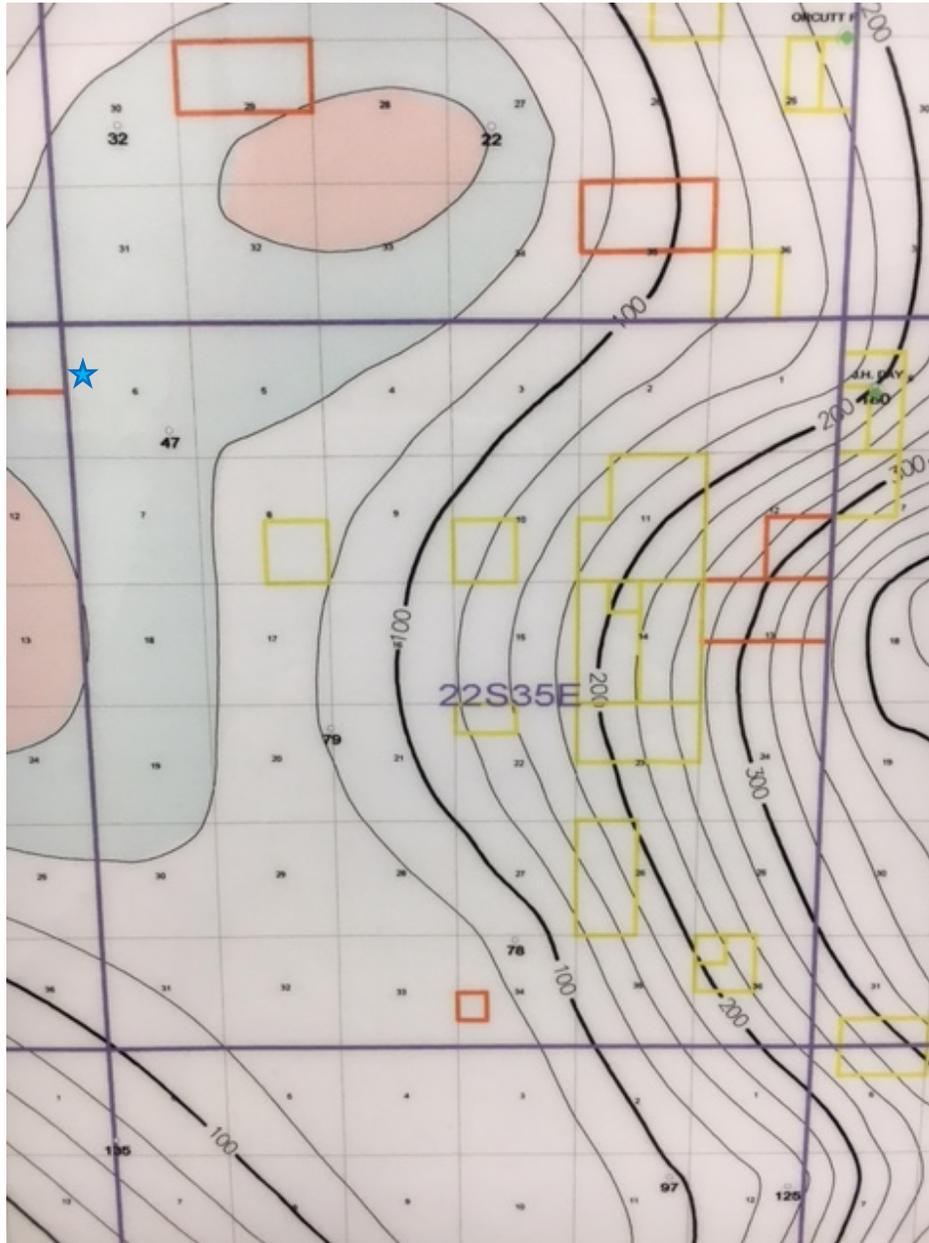
NORTH, N 32.42283 W-103.41288

SOUTH, N 32.42273 W-103.41287

EAST, N 32.42277 W-103.41279

WEST, N 32.42279 W-103.41295

**COG, NM DW State #002**  
**U/L E, Section 6, T 22S, R35E**  
**Groundwater: <50'**





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column	
<a href="#">CP 00934</a>		LE		2	1	2	01	22S	34E	648682	3588822	<input type="checkbox"/>	711	60	42	18
<a href="#">CP 00604</a>		LE		1	4	4	01	22S	34E	648743	3587666*	<input type="checkbox"/>	865	135		
<a href="#">CC 00212 POD3</a>		CU		3	4	2	07	02N	34E	649365	3587386	<input type="checkbox"/>	998	368		
<a href="#">CP 00593 POD1</a>		CP	LE		4	4	06	22S	35E	650422	3587591*	<input type="checkbox"/>	1421	62		

Average Depth to Water: **42 feet**  
 Minimum Depth: **42 feet**  
 Maximum Depth: **42 feet**

**Record Count:** 4

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 649237

**Northing (Y):** 3588377

**Radius:** 1700

\*UTM location was derived from PLSS - see Help

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.

5/16/17 10:15 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

**Public Land Survey System (PLSS)**

Q64:            Q16: SW            Q4: NW            Sec: 06            Tws: 22S            Rng: 35E

**State Plane Coordinate System - NAD27**

X:            ft            Y:            ft            Zone:

**State Plane Coordinate System - NAD83**

X:            ft            Y:            ft            Zone:

**Degrees/Minutes/Seconds**

Longitude (X):            Degrees:    °            Minutes:    '            Seconds:    "

Latitude (Y):            Degrees:    °            Minutes:    '            Seconds:    "

**UTM - NAD27**

Easting (X):            mtrs    Northing (Y):            mtrs    Zone:

**SUBMIT**

All Conversion Results are displayed as **NAD 1983 UTM Zone 13**

Easting (X):  mtrs            Northing (Y):  mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~

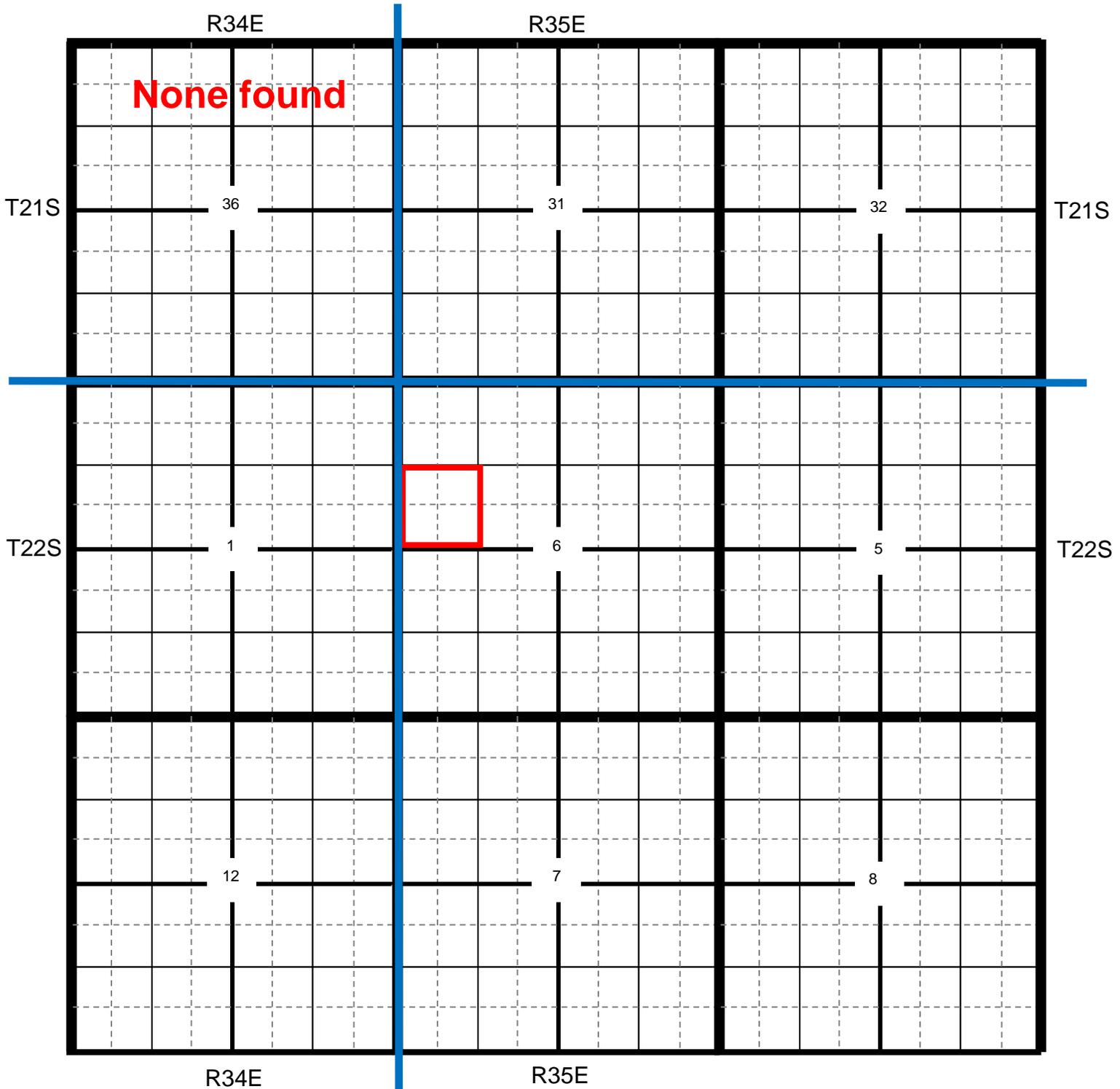


# Groundwater Plot

## COG New Mexico DW State #002

<b>County</b> Lea	<b>Unit Letter</b> E	<b>Section</b> 6	<b>Township</b> 22S	<b>Range</b> 35E
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Trend Map <50'



\* Location
● OCD
● USGS
● SEO
● All Databases



Section Quarters

COG New Mexico DW State #002

<b>County</b>	<b>Unit Letter</b>	<b>Section</b>	<b>Township</b>	<b>Range</b>
Lea	E	6	22S	35E

Trend Map <50'

1

2

NW/NW	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
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

47'

3

4

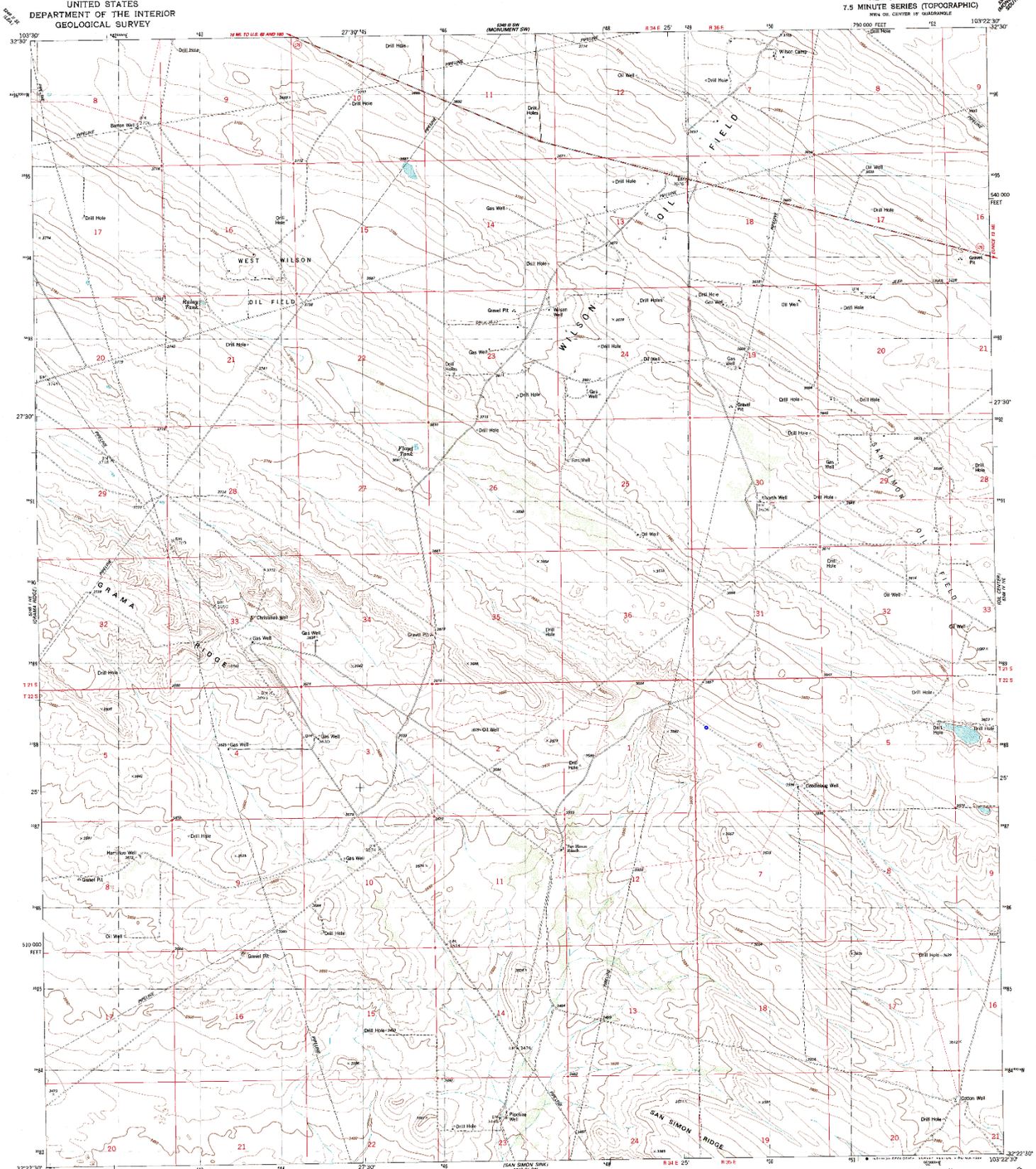
✳ Location     
 ● OCD     
 ● USGS     
 ● SEO     
 ● All Databases

# COG

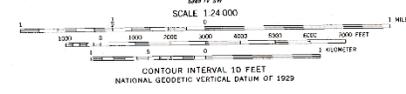
## New Mexico DW State #002

SAN SIMON RANCH QUADRANGLE  
NEW MEXICO-LEA CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)  
MVA OIL CENTER 19 QUADRANGLE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



Mapped, edited, and published by the Geological Survey  
 Contour by USGS and NOS/NOAA  
 Topography by photogrammetric methods from aerial photographs  
 taken 1977. Field checked 1978. Map edited 1984  
 Projection and 10,000-foot grid ticks: New Mexico  
 coordinate system, east zone (Transverse Mercator)  
 1000-meter Universal Transverse Mercator grid, zone 13  
 1927 North American Datum  
 To place on the projected North American Datum 1983  
 move the projection lines 5 meters south and  
 45 meters east as shown by dashed corner ticks  
 Fine red dashed lines indicate selected fence lines



**ROAD CLASSIFICATION**

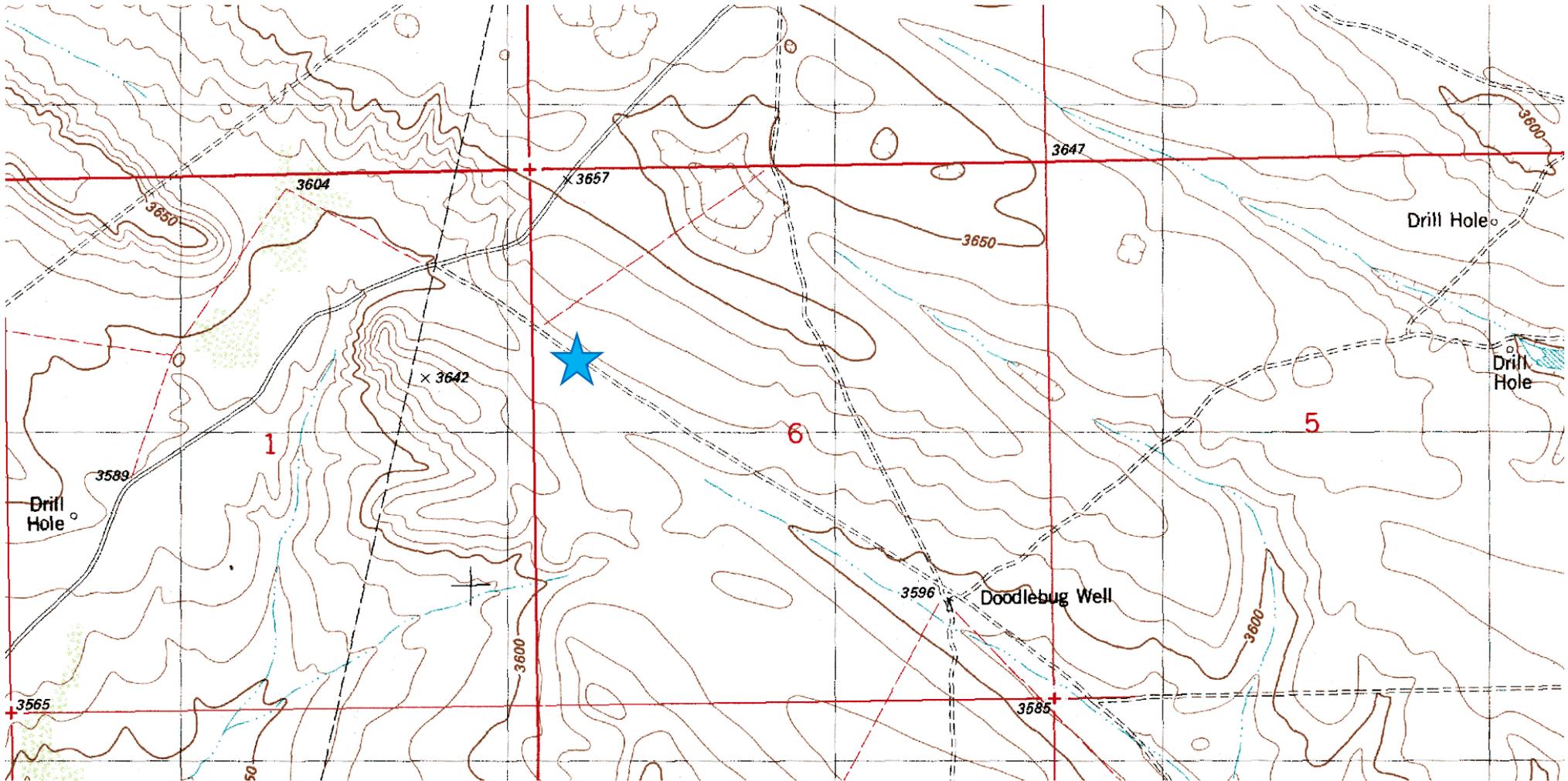
- Primary highway, hard surface
- Light duty road, hard or improved surface
- Secondary highway, hard surface
- Unimproved road
- Interstate Route
- U. S. Route
- State Route

THIS MAP COMPLETES WITH NATIONAL MAP ACCURACY STANDARDS  
 FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092  
 A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

**SAN SIMON RANCH, N. MEX.**  
 MVA OIL CENTER 19 QUADRANGLE  
 32108-04-17-024  
 1984  
 GMA 5348 IV HW-SERIES V861

# COG

## New Mexico DW State #002



Laboratory Analytical Results Summary  
NM DW State #002

Analyte	Method	Sample Date	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 6'	SP1 @ 11'
			2/8/17	2/8/17	4/26/17	4/26/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a
Chloride	SM4500CI-B		1170	80	144	112
GRO	TPH 8015M		<100	<10.0	<10.0	n/a
DRO	TPH 8015M		7030	179	<10.0	n/a

Analyte	Method	Sample Date	SP5 @ 1'	SP5 @ 6'	SP5 @ 11'
			4/26/17	4/26/17	4/26/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500CI-B		128	128	128
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a

Analyte	Method	Sample Date	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 6'	SP2 @ 11'
			2/8/17	2/8/17	4/26/17	4/26/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a
Chloride	SM4500CI-B		160	144	160	128
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		121	<10.0	<10.0	n/a

Analyte	Method	Sample Date	EAST @ SURFACE
			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		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

Analyte	Method	Sample Date	NORTH @ SURFACE
			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		144
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

Analyte	Method	Sample Date	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 6'	SP3 @ 11'
			2/8/17	2/8/17	4/26/17	4/26/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		0.816	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		0.816	<0.300	<0.300	n/a
Chloride	SM4500CI-B		1010	32	128	144
GRO	TPH 8015M		<100	<10.0	<10.0	n/a
DRO	TPH 8015M		3480	22	<10.0	n/a

Analyte	Method	Sample Date	SOUTH @ SURFACE
			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		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		20.7

Analyte	Method	Sample Date	WEST @ SURFACE
			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		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

Analyte	Method	Sample Date	SP4 @ 1'	SP4 @ 6'	SP4 @ 11'
			4/26/17	4/26/17	4/26/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500CI-B		144	160	144
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a

Laboratory Analytical Results Summary  
 NM DW State #002

		Sample	SEWALL 1	SEWALL 2	SEWALL 3	SEWALL 4
Analyte	Method	Date	7/27/17	7/27/17	7/27/17	7/27/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>64</b>	<b>48</b>	<b>32</b>	<b>64</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample	BOTTOM 1	BOTTOM 2
Analyte	Method	Date	7/27/17	7/27/17
			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		<b>48</b>	<b>48</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<b>13.4</b>



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

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February 22, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NM DW STATE #02

Enclosed are the results of analyses for samples received by the laboratory on 02/15/17 10:40.

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/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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/15/2017	Sampling Date:	02/08/2017
Reported:	02/22/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

**Sample ID: SP 1 @ SURFACE (H700384-01)**

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	02/17/2017	ND	1.94	96.9	2.00	1.83		
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29		
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10		
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30		
Total BTEX	<0.300	0.300	02/17/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	
<b>Chloride</b>	<b>1170</b>	16.0	02/17/2017	ND	448	112	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	<100	100	02/16/2017	ND	193	96.5	200	7.02		
<b>DRO &gt;C10-C28</b>	<b>7030</b>	100	02/16/2017	ND	203	102	200	6.69		

Surrogate: 1-Chlorooctane 89.5 % 35-147

Surrogate: 1-Chlorooctadecane 159 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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:	02/15/2017	Sampling Date:	02/08/2017
Reported:	02/22/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

**Sample ID: SP 1 @ 1' (H700384-02)**

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	02/17/2017	ND	1.94	96.9	2.00	1.83	
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10	
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30	
Total BTEX	<0.300	0.300	02/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	80.0	16.0	02/17/2017	ND	448	112	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	02/16/2017	ND	193	96.5	200	7.02	
DRO >C10-C28	179	10.0	02/16/2017	ND	203	102	200	6.69	

Surrogate: 1-Chlorooctane 89.6 % 35-147

Surrogate: 1-Chlorooctadecane 96.5 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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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:	02/15/2017	Sampling Date:	02/08/2017
Reported:	02/22/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

**Sample ID: SP 2 @ SURFACE (H700384-03)**

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	02/17/2017	ND	1.94	96.9	2.00	1.83	
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10	
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30	
Total BTEX	<0.300	0.300	02/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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
<b>Chloride</b>	<b>160</b>	16.0	02/17/2017	ND	448	112	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	02/16/2017	ND	193	96.5	200	7.02	
<b>DRO &gt;C10-C28</b>	<b>121</b>	10.0	02/16/2017	ND	203	102	200	6.69	

Surrogate: 1-Chlorooctane 83.9 % 35-147

Surrogate: 1-Chlorooctadecane 92.0 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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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:	02/15/2017	Sampling Date:	02/08/2017
Reported:	02/22/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

**Sample ID: SP 2 @ 1' (H700384-04)**

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	02/17/2017	ND	1.94	96.9	2.00	1.83	
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10	
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30	
Total BTEX	<0.300	0.300	02/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	02/17/2017	ND	448	112	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	02/16/2017	ND	193	96.5	200	7.02	
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	203	102	200	6.69	

Surrogate: 1-Chlorooctane 78.4 % 35-147

Surrogate: 1-Chlorooctadecane 84.0 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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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:	02/15/2017	Sampling Date:	02/08/2017
Reported:	02/22/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

**Sample ID: SP 3 @ SURFACE (H700384-05)**

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	02/17/2017	ND	1.94	96.9	2.00	1.83	
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10	
<b>Total Xylenes*</b>	<b>0.816</b>	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30	
<b>Total BTEX</b>	<b>0.816</b>	0.300	02/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 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
<b>Chloride</b>	<b>1010</b>	16.0	02/17/2017	ND	448	112	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	<100	100	02/16/2017	ND	193	96.5	200	7.02	
<b>DRO &gt;C10-C28</b>	<b>3480</b>	100	02/16/2017	ND	203	102	200	6.69	

Surrogate: 1-Chlorooctane 89.4 % 35-147

Surrogate: 1-Chlorooctadecane 126 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/15/2017	Sampling Date:	02/08/2017
Reported:	02/22/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

**Sample ID: SP 3 @ 1' (H700384-06)**

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	02/17/2017	ND	1.94	96.9	2.00	1.83	
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10	
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30	
Total BTEX	<0.300	0.300	02/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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
<b>Chloride</b>	<b>32.0</b>	16.0	02/17/2017	ND	448	112	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	02/16/2017	ND	193	96.5	200	7.02	
<b>DRO &gt;C10-C28</b>	<b>22.0</b>	10.0	02/16/2017	ND	203	102	200	6.69	

Surrogate: 1-Chlorooctane 78.7 % 35-147

Surrogate: 1-Chlorooctadecane 88.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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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:	02/15/2017	Sampling Date:	02/08/2017
Reported:	02/22/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

**Sample ID: NORTH @ SURFACE (H700384-07)**

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	02/17/2017	ND	1.94	96.9	2.00	1.83	
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10	
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30	
Total BTEX	<0.300	0.300	02/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/17/2017	ND	448	112	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	02/16/2017	ND	193	96.5	200	7.02	
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	203	102	200	6.69	

Surrogate: 1-Chlorooctane 80.4 % 35-147

Surrogate: 1-Chlorooctadecane 85.4 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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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:	02/15/2017	Sampling Date:	02/08/2017
Reported:	02/22/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

**Sample ID: EAST @ SURFACE (H700384-08)**

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	02/17/2017	ND	1.94	96.9	2.00	1.83	
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10	
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30	
Total BTEX	<0.300	0.300	02/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	32.0	16.0	02/17/2017	ND	448	112	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	02/16/2017	ND	193	96.5	200	7.02	
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	203	102	200	6.69	

Surrogate: 1-Chlorooctane 67.8 % 35-147

Surrogate: 1-Chlorooctadecane 77.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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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:	02/15/2017	Sampling Date:	02/08/2017
Reported:	02/22/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

**Sample ID: SOUTH @ SURFACE (H700384-09)**

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	02/17/2017	ND	1.94	96.9	2.00	1.83		
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29		
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10		
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30		
Total BTEX	<0.300	0.300	02/17/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	02/17/2017	ND	448	112	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	02/16/2017	ND	193	96.5	200	7.02		
<b>DRO &gt;C10-C28</b>	<b>20.7</b>	10.0	02/16/2017	ND	203	102	200	6.69		

Surrogate: 1-Chlorooctane 76.2 % 35-147

Surrogate: 1-Chlorooctadecane 86.8 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/15/2017	Sampling Date:	02/08/2017
Reported:	02/22/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

**Sample ID: WEST @ SURFACE (H700384-10)**

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	02/17/2017	ND	1.94	96.9	2.00	0.421		
Toluene*	<0.050	0.050	02/17/2017	ND	1.81	90.4	2.00	0.542		
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.81	90.7	2.00	1.02		
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.19	86.4	6.00	1.12		
Total BTEX	<0.300	0.300	02/17/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/17/2017	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	02/16/2017	ND	193	96.5	200	7.02		
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	203	102	200	6.69		

Surrogate: 1-Chlorooctane 80.6 % 35-147

Surrogate: 1-Chlorooctadecane 90.5 % 28-171

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\*=Accredited Analyte

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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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**

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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

1 of 2

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs Phone #: 575-397-6388 Project #: _____ Project Name: _____ Project Location: NM DM STATE # 01 Sampler Name: ROGER HERNANDEZ FOR LAB USE ONLY		P.O. #: Company: Attn: Address: City: State: Zip:									
State: NIM zip: 88241 Fax #: 575-397-0397 Project Owner: C.D.G.		P.O. #: Company: Attn: Address: City: State: Zip:									
Bill To		Analysis Request									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	TPH	BTEX	CL-
H700394	SP1 @ SURFACE	G	1	✓	✓	2	8/17	945	✓	✓	✓
	SP2 @ SURFACE	G	1	✓	✓	2	8/17	1010	✓	✓	✓
	SP3 @ SURFACE	G	1	✓	✓	2	8/17	1035	✓	✓	✓
	NORTH @ SURFACE	G	1	✓	✓	2	8/17	1048	✓	✓	✓
	EAST @ SURFACE	G	1	✓	✓	2	8/17	1057	✓	✓	✓
	SOUTH @ SURFACE	G	1	✓	✓	2	8/17	1235	✓	✓	✓
	WEST @ SURFACE	G	1	✓	✓	2	8/17	240	✓	✓	✓
		G	1	✓	✓	2	8/17	250	✓	✓	✓
		G	1	✓	✓	2	8/17	305	✓	✓	✓

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Relinquished By: Roger Hernandez  
 Date: 8/17/17  
 Time: 10:40

Received By: Roger Hernandez  
 Date: 8/17/17  
 Time: 2:12

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other: 2.12

Sample Condition  
 Cool  Intact   
 Yes  Yes  
 No  No

CHECKED BY: (Initials)

REMARKS:

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

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



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

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May 15, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NM DW STATE #002

Enclosed are the results of analyses for samples received by the laboratory on 05/05/17 10:40.

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/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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/05/2017	Sampling Date:	04/26/2017
Reported:	05/15/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

**Sample ID: 1 @ 6' (H701215-01)**

BTEX 8021B		mg/kg		Analyzed By: BF				I-02		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2017	ND	2.08	104	2.00	1.17		
Toluene*	<0.050	0.050	05/12/2017	ND	2.10	105	2.00	1.84		
Ethylbenzene*	<0.050	0.050	05/12/2017	ND	2.12	106	2.00	2.63		
Total Xylenes*	<0.150	0.150	05/12/2017	ND	6.23	104	6.00	1.86		
Total BTEX	<0.300	0.300	05/12/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/09/2017	ND	400	100	400	3.92		

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	05/11/2017	ND	193	96.6	200	2.84		
DRO >C10-C28	<10.0	10.0	05/11/2017	ND	196	97.8	200	1.26		

Surrogate: 1-Chlorooctane 69.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 73.5 % 34.7-157

**Sample ID: 1 @ 11' (H701215-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/09/2017	ND	400	100	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/05/2017	Sampling Date:	04/26/2017
Reported:	05/15/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

**Sample ID: 2 @ 6' (H701215-03)**

BTEX 8021B		mg/kg		Analyzed By: BF				I-02	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2017	ND	2.08	104	2.00	1.17	
Toluene*	<0.050	0.050	05/12/2017	ND	2.10	105	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/12/2017	ND	2.12	106	2.00	2.63	
Total Xylenes*	<0.150	0.150	05/12/2017	ND	6.23	104	6.00	1.86	
Total BTEX	<0.300	0.300	05/12/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	05/09/2017	ND	400	100	400	3.92	

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	05/11/2017	ND	193	96.6	200	2.84	
DRO >C10-C28	<10.0	10.0	05/11/2017	ND	196	97.8	200	1.26	

Surrogate: 1-Chlorooctane 66.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 63.6 % 34.7-157

**Sample ID: 2 @ 11' (H701215-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	05/09/2017	ND	400	100	400	3.92	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/05/2017	Sampling Date:	04/26/2017
Reported:	05/15/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

**Sample ID: 3 @ 6' (H701215-05)**

BTEX 8021B		mg/kg		Analyzed By: BF				I-02	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2017	ND	2.08	104	2.00	1.17	
Toluene*	<0.050	0.050	05/12/2017	ND	2.10	105	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/12/2017	ND	2.12	106	2.00	2.63	
Total Xylenes*	<0.150	0.150	05/12/2017	ND	6.23	104	6.00	1.86	
Total BTEX	<0.300	0.300	05/12/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	05/09/2017	ND	416	104	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	05/11/2017	ND	193	96.6	200	2.84	
DRO >C10-C28	<10.0	10.0	05/11/2017	ND	196	97.8	200	1.26	

Surrogate: 1-Chlorooctane 71.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 71.8 % 34.7-157

**Sample ID: 3@ 11' (H701215-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	05/09/2017	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/05/2017	Sampling Date:	04/26/2017
Reported:	05/15/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

**Sample ID: 4 @ 1' (H701215-07)**

BTEX 8021B		mg/kg		Analyzed By: BF				I-02	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2017	ND	2.08	104	2.00	1.17	
Toluene*	<0.050	0.050	05/12/2017	ND	2.10	105	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/12/2017	ND	2.12	106	2.00	2.63	
Total Xylenes*	<0.150	0.150	05/12/2017	ND	6.23	104	6.00	1.86	
Total BTEX	<0.300	0.300	05/12/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/09/2017	ND	416	104	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	05/11/2017	ND	193	96.6	200	2.84	
DRO >C10-C28	<10.0	10.0	05/11/2017	ND	196	97.8	200	1.26	

Surrogate: 1-Chlorooctane 69.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 62.8 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/05/2017	Sampling Date:	04/26/2017
Reported:	05/15/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

**Sample ID: 4 @ 6' (H701215-08)**

BTEX 8021B		mg/kg		Analyzed By: BF				I-02	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2017	ND	2.08	104	2.00	1.17	
Toluene*	<0.050	0.050	05/12/2017	ND	2.10	105	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/12/2017	ND	2.12	106	2.00	2.63	
Total Xylenes*	<0.150	0.150	05/12/2017	ND	6.23	104	6.00	1.86	
Total BTEX	<0.300	0.300	05/12/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	05/09/2017	ND	416	104	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	05/11/2017	ND	193	96.6	200	2.84	
DRO >C10-C28	<10.0	10.0	05/11/2017	ND	196	97.8	200	1.26	

Surrogate: 1-Chlorooctane 80.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 76.3 % 34.7-157

**Sample ID: 4 @ 11' (H701215-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	05/09/2017	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/05/2017	Sampling Date:	04/26/2017
Reported:	05/15/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

**Sample ID: 5 @ 1' (H701215-10)**

BTEX 8021B		mg/kg		Analyzed By: BF				I-02	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2017	ND	2.08	104	2.00	1.17	
Toluene*	<0.050	0.050	05/12/2017	ND	2.10	105	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/12/2017	ND	2.12	106	2.00	2.63	
Total Xylenes*	<0.150	0.150	05/12/2017	ND	6.23	104	6.00	1.86	
Total BTEX	<0.300	0.300	05/12/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/09/2017	ND	416	104	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	05/11/2017	ND	193	96.6	200	2.84	
DRO >C10-C28	<10.0	10.0	05/11/2017	ND	196	97.8	200	1.26	

Surrogate: 1-Chlorooctane 70.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 74.7 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/05/2017	Sampling Date:	04/26/2017
Reported:	05/15/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

**Sample ID: 5 @ 6' (H701215-11)**

BTEX 8021B		mg/kg		Analyzed By: BF				I-02	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2017	ND	2.08	104	2.00	1.17	
Toluene*	<0.050	0.050	05/12/2017	ND	2.10	105	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/12/2017	ND	2.12	106	2.00	2.63	
Total Xylenes*	<0.150	0.150	05/12/2017	ND	6.23	104	6.00	1.86	
Total BTEX	<0.300	0.300	05/12/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	05/09/2017	ND	416	104	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	05/11/2017	ND	193	96.6	200	2.84	
DRO >C10-C28	<10.0	10.0	05/11/2017	ND	196	97.8	200	1.26	

Surrogate: 1-Chlorooctane 78.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 69.3 % 34.7-157

**Sample ID: 5@ 11' (H701215-12)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	05/09/2017	ND	416	104	400	0.00	

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- I-02 This result was analyzed outside of the EPA recommended holding time.
- 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*

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.  
 Project Manager: Cliff Brunson  
 Address: P. O. Box 805  
 City: Hobbs  
 State: NM Zip: 88241  
 Phone #: 575-397-6388 Fax #: 575-397-0397  
 Project #: NM DW State #002 Project Owner: COG  
 Project Name: NM DW State #002  
 Project Location: Price Brunson  
 Sampler Name: Price Brunson  
 P.O. #: Company: COG  
 Attn: Address: City: State: Zip: Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH	BTEX	V <sup>-</sup>
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
A101215	106	G	1								4/26/17	1150			
	1011	G	1								4/26/17	1215			
	206	G	1								4/26/17	115			
	2011	G	1								4/26/17	150			
	306	G	1								4/26/17	230			
	3011	G	1								4/26/17	300			
	401	G	1								4/26/17	930			
	406	G	1								4/26/17	950			
	4011	G	1								4/26/17	1010			
	5011	G	1								4/26/17	1045			

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Relinquished By: [Signature] Date: 4/24/17 Time: 4:00pm  
 Received By: [Signature] Date: 5-5-17 Time: 10:40  
 Delivered By: (Circle One) UPS - Bus - Other: - 12.88  
 Sample Condition: Cool  Intact   
 Checked By: [Signature] (Initials) 42. #75

Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_  
 REMARKS:

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



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 (505) 393-2326 FAX (505) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc.  
 Project Manager: Cliff Brunson  
 Address: P.O. Box 805  
 City: Hobbs  
 State: NM zip: 88241  
 Phone #: 575-397-6388 Fax #: 575-397-0397  
 Project #:   
 Project Name: NM OW State #002  
 Project Location:   
 Sampler Name: Pvc Brunson  
 P.O. #:   
 Company: COG  
 Attn:   
 Address:   
 City:   
 State: Zip:   
 Phone #:   
 Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:								
H0125	11	11	11								11/17	1110						
	12	12	11								11/17	1130						

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Relinquished By:   
 Date: 11/17  
 Time: 4:00pm  
 Received By:   
 Date: 5-5-17  
 Time: 10:44  
 Sample Condition:   
 Cool  Yes  No  
 Intact  Yes  No  
 CHECKED BY:   
 Phone Result:  Yes  No Add'l Phone #:   
 Fax Result:  Yes  No Add'l Fax #:   
 REMARKS:   
 Delivered By: (Circle One)   
 Sampler - UPS - Bus - Other:   
 -12.88

2 of 2



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

---

July 31, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NM DW STATE #002

Enclosed are the results of analyses for samples received by the laboratory on 07/28/17 8:20.

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/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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	07/28/2017	Sampling Date:	07/27/2017
Reported:	07/31/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

**Sample ID: SIDE WALL 1 (H701974-01)**

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	07/31/2017	ND	2.06	103	2.00	0.728	
Toluene*	<0.050	0.050	07/31/2017	ND	1.90	95.2	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	1.99	99.6	2.00	0.790	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	07/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/28/2017	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	07/28/2017	ND	198	99.1	200	10.1	
DRO >C10-C28	<10.0	10.0	07/28/2017	ND	211	105	200	8.90	

Surrogate: 1-Chlorooctane 91.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.8 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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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:	07/28/2017	Sampling Date:	07/27/2017
Reported:	07/31/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

**Sample ID: SIDE WALL 2 (H701974-02)**

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	07/31/2017	ND	2.06	103	2.00	0.728	
Toluene*	<0.050	0.050	07/31/2017	ND	1.90	95.2	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	1.99	99.6	2.00	0.790	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	07/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/28/2017	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	07/28/2017	ND	198	99.1	200	10.1	
DRO >C10-C28	<10.0	10.0	07/28/2017	ND	211	105	200	8.90	

Surrogate: 1-Chlorooctane 86.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.6 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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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:	07/28/2017	Sampling Date:	07/27/2017
Reported:	07/31/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

**Sample ID: SIDE WALL 3 (H701974-03)**

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	07/31/2017	ND	2.06	103	2.00	0.728	
Toluene*	<0.050	0.050	07/31/2017	ND	1.90	95.2	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	1.99	99.6	2.00	0.790	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	07/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/28/2017	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	07/28/2017	ND	198	99.1	200	10.1	
DRO >C10-C28	<10.0	10.0	07/28/2017	ND	211	105	200	8.90	

Surrogate: 1-Chlorooctane 78.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.0 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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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:	07/28/2017	Sampling Date:	07/27/2017
Reported:	07/31/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

**Sample ID: SIDE WALL 4 (H701974-04)**

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	07/31/2017	ND	2.06	103	2.00	0.728	
Toluene*	<0.050	0.050	07/31/2017	ND	1.90	95.2	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	1.99	99.6	2.00	0.790	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	07/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/28/2017	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	07/28/2017	ND	198	99.1	200	10.1	
DRO >C10-C28	<10.0	10.0	07/28/2017	ND	211	105	200	8.90	

Surrogate: 1-Chlorooctane 96.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 99.3 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	07/28/2017	Sampling Date:	07/27/2017
Reported:	07/31/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

**Sample ID: BOTTOM 1 (H701974-05)**

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	07/31/2017	ND	2.06	103	2.00	0.728		
Toluene*	<0.050	0.050	07/31/2017	ND	1.90	95.2	2.00	2.14		
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	1.99	99.6	2.00	0.790		
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.01	100	6.00	1.04		
Total BTEX	<0.300	0.300	07/31/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/28/2017	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	07/28/2017	ND	198	99.1	200	10.1		
DRO >C10-C28	<10.0	10.0	07/28/2017	ND	211	105	200	8.90		

Surrogate: 1-Chlorooctane 99.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 106 % 34.7-157

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	07/28/2017	Sampling Date:	07/27/2017
Reported:	07/31/2017	Sampling Type:	Soil
Project Name:	NM DW STATE #002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

**Sample ID: BOTTOM 2 (H701974-06)**

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	07/31/2017	ND	2.06	103	2.00	0.728	
Toluene*	<0.050	0.050	07/31/2017	ND	1.90	95.2	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	1.99	99.6	2.00	0.790	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	07/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	07/28/2017	ND	432	108	400	0.00	QR-03

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	07/28/2017	ND	198	99.1	200	10.1	
<b>DRO &gt;C10-C28</b>	<b>13.4</b>	10.0	07/28/2017	ND	211	105	200	8.90	

Surrogate: 1-Chlorooctane 87.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 93.4 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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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Celey D. Keene

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**

**BILL TO**

**ANALYSIS REQUEST**

*10811*

Company Name: **BBC International, Inc.**  
 Project Manager: **Cliff Brunson**  
 Address: **P.O. Box 805**  
 City: **Hobbs** State: **NM** Zip: **88241**  
 Phone #: **575-397-6388** Fax #: **575-397-0397**  
 Project #: **AW NW State # 002** Project Owner: **C.O.G.**  
 Project Name: **AW NW State # 002**  
 Project Location: **Payet Hernandez**  
 Sampler Name: **FOR LAB USE ONLY**

P.O. #: \_\_\_\_\_ Company: \_\_\_\_\_  
 Attn: \_\_\_\_\_ Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<i>H701914</i>	<i>SI DEWALL 1</i>	<i>✓</i>	<i>1</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>7-27-17 1:00</i>	<i>✓</i>	<i>CK TPDH BTEX</i>
	<i>SI DEWALL 2</i>	<i>✓</i>	<i>1</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>7-27-17 1:05</i>	<i>✓</i>	
	<i>SI DEWALL 3</i>	<i>✓</i>	<i>1</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>7-27-17 1:10</i>	<i>✓</i>	
	<i>SI DEWALL 4</i>	<i>✓</i>	<i>1</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>7-27-17 1:15</i>	<i>✓</i>	
	<i>Bottom 1</i>	<i>✓</i>	<i>1</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>7-27-17 1:20</i>	<i>✓</i>	
	<i>Bottom 2</i>	<i>✓</i>	<i>1</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>7-27-17 1:25</i>	<i>✓</i>	

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Relinquished By: *[Signature]* Date: *7-27-17* Time: *5:00*  
 Received By: *Jennifer Gekky*  
 Relinquished By: *Jennifer Gekky* Date: *5-28-17* Time: *8:20*  
 Received By: *Jawana [Signature]*  
 Delivered By: (Circle One) *-S.98*  
 Sampler - UPS - Bus - Other: *Accepted - 5:05g*  
 Sample Condition: Cool  Intact   
 Checked By: *[Signature]* (Initials) *SO #75*

Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_  
 REMARKS: *Push !!*

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

**From:** Yu, Olivia, EMNRD  
**To:** [Cliff Brunson](#); [Amber Groves](#)  
**Cc:** [Becky Haskell](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)  
**Subject:** RE: COG - New Mexico DW State #002 (1RP-4549) - Delineation Workplan  
**Date:** Wednesday, June 14, 2017 12:28:20 PM  
**Attachments:** [1RP4549 approved Delineation Workplan NM DW State #002.pdf](#)

---

Dear Mr. Brunson:

NMOCD approves of the delineation and proposed remediation for 1RP-4549 with one condition: confirmatory laboratory analyses of bottom and sidewall samples at 1 ft. bgs. Please confirm. Like approval from SLO required.

Thanks,

Olivia Yu  
Environmental Specialist  
NMOCD, District I  
[Olivia.yu@state.nm.us](mailto:Olivia.yu@state.nm.us)  
575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

---

**From:** Cliff Brunson [mailto:[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)]  
**Sent:** Monday, May 22, 2017 2:15 PM  
**To:** Yu, Olivia, EMNRD <[Olivia.Yu@state.nm.us](mailto:Olivia.Yu@state.nm.us)>; Amber Groves <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>  
**Cc:** Becky Haskell <[rhaskell@concho.com](mailto:rhaskell@concho.com)>; Ken Swinney <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>; Jennifer Gilkey <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>; Kathy Purvis <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>  
**Subject:** COG - New Mexico DW State #002 (1RP-4549) - Delineation Workplan

Olivia and Amber,

Please find the attached Delineation Workplan and remediation proposal for the COG New Mexico DW State #002 (1RP-4549). COG is requesting that you review this plan and is looking forward to the OCD's and BLM's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
 President  
 BBC International, Inc.  
 World-Wide Environmental Specialists  
 Mailing Address:  
 P. O. Box 805  
 Hobbs, NM 88241-0805 USA  
 Shipping Address:  
 1324 W. Marland St.  
 Hobbs, NM 88240 USA  
 Phone: (575) 397-6388  
 Fax: (575) 397-0397  
 E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)



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**From:** Groves, Amber  
**To:** [Cliff Brunson](#); "[Yu, Olivia, EMNRD](#)"  
**Cc:** "[Becky Haskell](#)"; "[Ken Swinney](#)"; "[Jennifer Gilkey](#)"; "[Kathy Purvis](#)"  
**Subject:** RE: COG - New Mexico DW State #002 (1RP-4549) - Delineation Workplan  
**Date:** Thursday, July 6, 2017 2:47:55 PM  
**Attachments:** [image002.png](#)  
[image001.png](#)

---

Cliff,

NMSLO is in agreement with NMOCD on work plan approval and confirmation sampling.

Thank you,

**Amber Groves**

*Remediation Specialist*  
*Field Operations Division*  
 (575)392-3697  
 (575)263-3209 cell  
 New Mexico State Land Office  
 2827 N. Dal Paso Suite 117  
 Hobbs, NM 88260

.....  
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**From:** Cliff Brunson [mailto:[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)]  
**Sent:** Wednesday, June 14, 2017 1:52 PM  
**To:** 'Yu, Olivia, EMNRD' <[Olivia.Yu@state.nm.us](mailto:Olivia.Yu@state.nm.us)>; Groves, Amber <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>  
**Cc:** 'Becky Haskell' <[rhaskell@concho.com](mailto:rhaskell@concho.com)>; 'Ken Swinney' <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>; 'Jennifer Gilkey' <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>; 'Kathy Purvis' <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>  
**Subject:** RE: COG - New Mexico DW State #002 (1RP-4549) - Delineation Workplan

Olivia,

COG confirms that the condition of the approval will be met.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
 President  
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 World-Wide Environmental Specialists  
 Mailing Address:  
 P. O. Box 805  
 Hobbs, NM 88241-0805 USA  
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 1324 W. Marland St.  
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 E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)



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**From:** Yu, Olivia, EMNRD [<mailto:Olivia.Yu@state.nm.us>]  
**Sent:** Wednesday, June 14, 2017 12:27 PM  
**To:** Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)>; Amber Groves <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>  
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Dear Mr. Brunson:

NMOCD approves of the delineation and proposed remediation for 1RP-4549 with one condition: confirmatory laboratory analyses of bottom and sidewall samples at 1 ft. bgs. Please confirm. Like approval from SLO required.

Thanks,

Olivia Yu  
 Environmental Specialist  
 NMOCD, District I  
[Olivia.yu@state.nm.us](mailto:Olivia.yu@state.nm.us)  
 575-393-6161 x113

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---

**From:** Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Monday, May 22, 2017 2:15 PM  
**To:** Yu, Olivia, EMNRD <[Olivia.Yu@state.nm.us](mailto:Olivia.Yu@state.nm.us)>; Amber Groves <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>  
**Cc:** Becky Haskell <[rhaskell@concho.com](mailto:rhaskell@concho.com)>; Ken Swinney <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>; Jennifer Gilkey <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>; Kathy Purvis <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>  
**Subject:** COG - New Mexico DW State #002 (1RP-4549) - Delineation Workplan

Olivia and Amber,

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Thanks, Cliff

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**From:** Cliff Brunson  
**To:** ["Yu, Olivia, EMNRD"; "Amber Groves"](#)  
**Cc:** ["Becky Haskell"; "Ken Swinney"; "Jennifer Gilkey"; "Kathy Purvis"](#)  
**Subject:** RE: COG - New Mexico DW State #002 (1RP-4549) - Delineation Workplan  
**Date:** Wednesday, June 14, 2017 1:52:03 PM

---

Olivia,

COG confirms that the condition of the approval will be met.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
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**Sent:** Wednesday, June 14, 2017 12:27 PM  
**To:** Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)>; Amber Groves <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>  
**Cc:** Becky Haskell <[rhaskell@concho.com](mailto:rhaskell@concho.com)>; Ken Swinney <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>; Jennifer Gilkey <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>; Kathy Purvis <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>  
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**Cc:** Becky Haskell <[rhaskell@concho.com](mailto:rhaskell@concho.com)>; Ken Swinney <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>; Jennifer Gilkey <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>; Kathy Purvis <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>  
**Subject:** COG - New Mexico DW State #002 (1RP-4549) - Delineation Workplan

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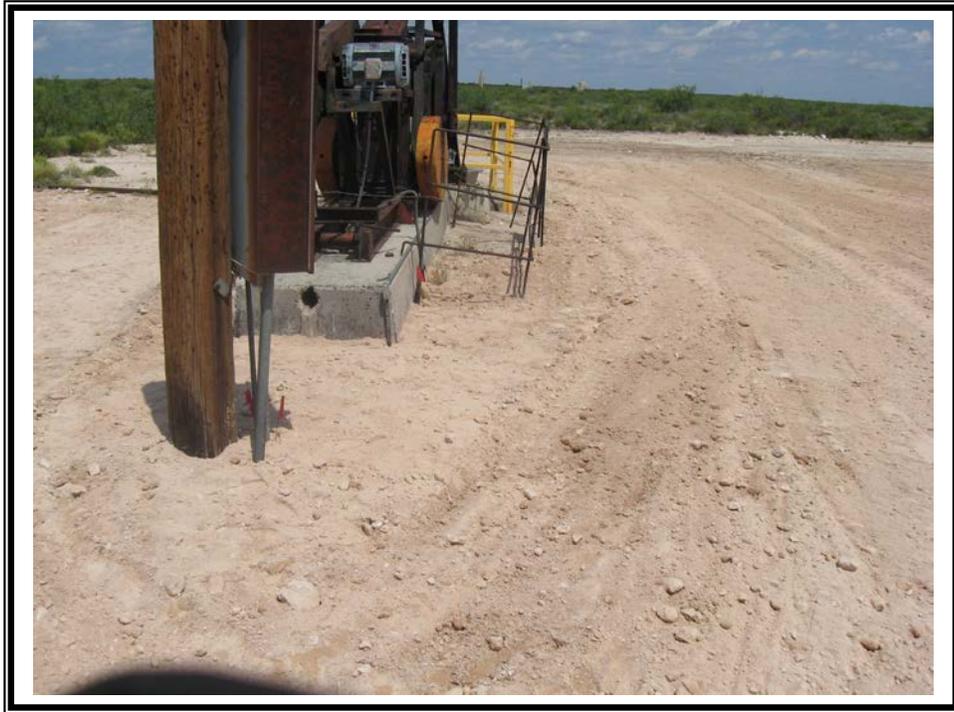


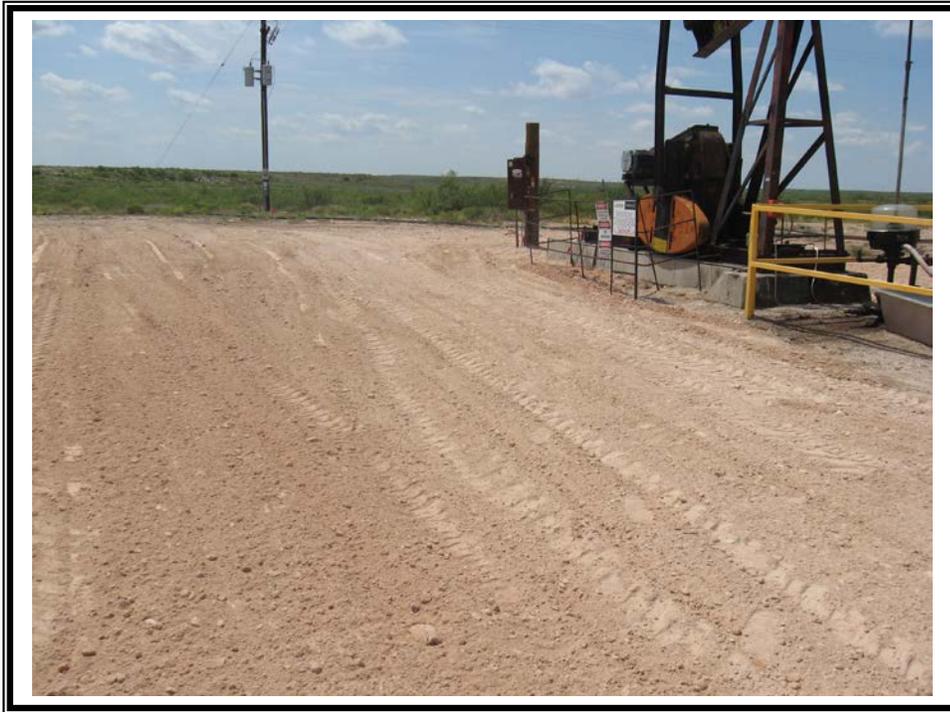












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**Oil Conservation Division**  
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CONDITIONS

Action 157635

**CONDITIONS**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 157635
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

**CONDITIONS**

Created By	Condition	Condition Date
amaxwell	None	11/10/2022