

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

### DELINEATION/REMEDIATION WORKPLAN

OXY - Bravo Dome Unit 1934-261D (Leak Date: 9/6/19)

Incident ID: NCS1932439585

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NCS 1932439585.

The following information includes:

- 1. Appropriate completed and signed C-141 pages.
- 2. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.

**NOT APPROVE** 

- 3. GPS information for sample points and sample methodology.
- 4. Depth to groundwater information (i.e., pdf of OSE search results, USGS search results, and/or copy of Chevron groundwater trend map).
- 5. Watercourse/features map within 1000 feet.
- 6. BLM Cave Karst map.
- 7. FEMA National Flood map.
- 8. Laboratory analysis results summary table and original laboratory analysis reports.
- 9. Potentially other pertinent information as necessary for site specific purposes.

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

OXY will excavate the spill area as depicted on the following site diagram. The entire leak area (YELLOW shade on diagram) will be excavated to a depth of 1 foot.

Bottom confirmation samples will be collected every 75 feet.

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

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

Form C-141 Page 3

# State of New Mexico Oil Conservation Division

Incident ID	NCS1932439585
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	73' (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ■ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ■ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ■ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ■ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ■ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ■ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ■ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ■ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ■ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ■ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ■ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ■ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release	s.
Boring or excavation logs  Photographs including date and GIS information  Topographic/Aerial maps  Laboratory data including chain of custody	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141 Page 4

# State of New Mexico Oil Conservation Division

Incident ID	NCS1932439585
District RP	
Facility ID	
Application ID	

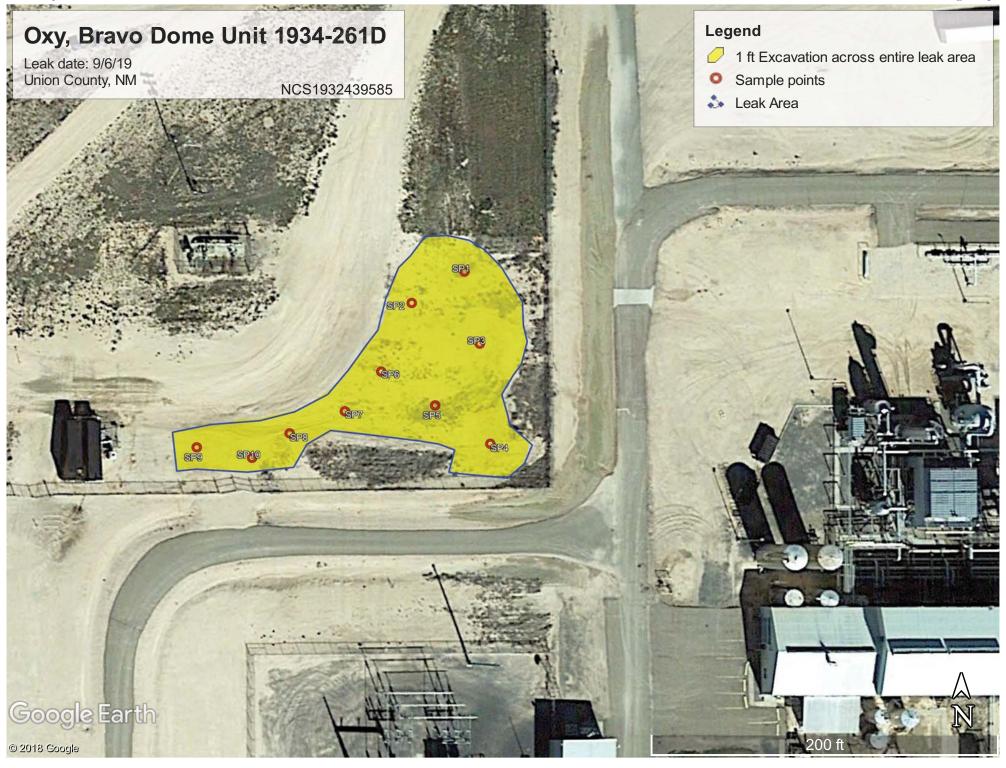
regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the 6 failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Wade Dittrich	Title: Environmental Coordinator
Signature: Wale Dittill email: wade_dittrich@oxy.com	Date: <u>/0/0/9</u> Telephone: (575) 390-2828
OCD Only	
Received by:	Date:

Form C-141 Page 5 State of New Mexico
Oil Conservation Division

Incident ID	NCS1932439585
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.						
<ul> <li>Detailed description of proposed remediation technique</li> <li>Scaled sitemap with GPS coordinates showing delineation points</li> <li>Estimated volume of material to be remediated</li> </ul>						
Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC						
Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)						
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.						
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.						
Extents of contamination must be fully delineated.						
Contamination does not cause an imminent risk to human health, the environment, or groundwater.						
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  Printed Name: Wade Dittrich  Title: Environmental Coordinator  Date:						
<del></del>						
Received by: OCD Date: 12/24/19						
Approved						
Signature: Date: 12/30/19						



### Oxy, Bravo Dome Unit 1934-261D

### Sample points

SP1, N 35.85497 W-103.29974

SP2, N 35.85492 W-103.29984

SP3, N 35.85486 W-103.29971

SP4, N 35.85470 W-103.29969

SP5, N 35.85476 W-103.29979

SP6, N 35.85481 W-103.29990

SP7, N 35.85475 W-103.29997

SP8, N 35.85472 W-103.30008

SP9, N 35.85469 W-103.30025

SP10, N 35.85468 W-103.30015



USGS Home Contact USGS Search USGS

**National Water Information System: Web Interface** 

**USGS Water Resources** 

Data Category:		Geographic Area:		
Groundwater	~	New Mexico V	] [	GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

#### Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 354947103162601

#### Minimum number of levels = 1

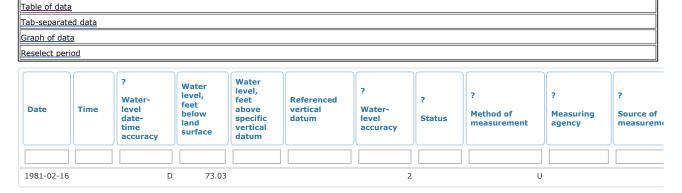
Save file of selected sites to local disk for future upload

#### USGS 354947103162601 19N.34E.36.413

Union County, New Mexico
Latitude 35°49'47", Longitude 103°16'26" NAD27
Land-surface elevation 4,670.00 feet above NGV29
The depth of the well is 85.0 feet below land surface.
This well is completed in the Occalled Formation (121)

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

#### **Output formats**



Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms

#### Subscribe for system changes News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels

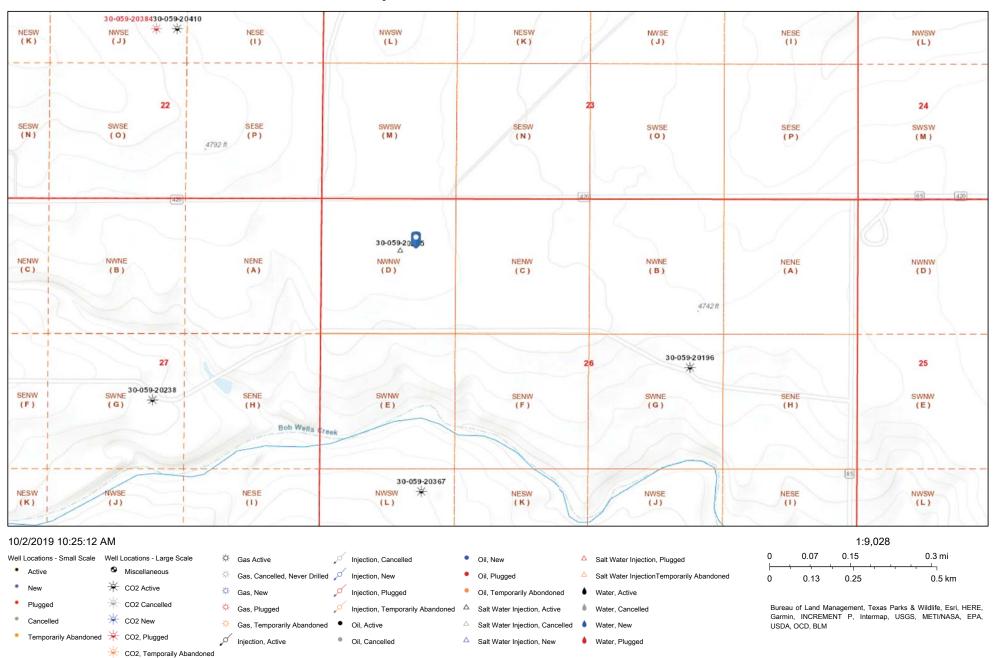
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2019-10-02 12:20:22 EDT

0.44 0.41 nadww02

USA.gov

## Oxy, Bravo Dome Unit 1934-261D



New Mexico Oil Conservation Division NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/: New Mexico Oil Conservation Division

# Laboratory Analytical Results Summary Bravo Dome #1934-261 (9/6/19)

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	9/17/19	9/17/19	9/17/19	9/17/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	< 0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		176	464	400	400
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	9/17/19	9/17/19	9/17/19
			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		6130	368	448
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	9/17/19	9/17/19	9/17/19
			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		6000	432	464
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

			SP3 @		
		Sample ID	SURFACE	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	9/17/19	9/17/19	9/17/19
			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		30000	256	224
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

			SP4 @		
		Sample ID	SURFACE	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	9/17/19	9/17/19	9/17/19
			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		28800	128	304
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	9/17/19	9/17/19	9/17/19
			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		6800	80	32
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	9/17/19	9/17/19	9/17/19
			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		5440	352	32
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 2'
Analyte	Method	Date	9/17/19	9/17/19	9/17/19
			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		6400	80	48
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

# Laboratory Analytical Results Summary Bravo Dome #1934-261 (9/6/19)

			SP8 @				
		Sample ID	SURFACE	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'	SP8 @ 4'
Analyte	Method	Date	9/17/19	9/17/19	9/17/19	9/17/19	9/17/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		6880	976	832	96	96
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a

			SP9 @					
		Sample ID	SURFACE	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'	SP9 @ 4'	SP9 @ 5'
Analyte	Method	Date	9/17/19	9/17/19	9/17/19	9/17/19	9/17/19	9/17/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		5920	416	624	784	128	128
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a

		Sample ID	SP10 @ SURFACE	SP10 @ 1'	SP10 @ 2'	SP10 @ 3'	SP10 @ 4'
Analyte	Method	Date	9/17/19	9/17/19	9/17/19	9/17/19	9/17/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		6660	1340	720	96	80
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a



September 24, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BRAVO DOME #1934-261

Enclosed are the results of analyses for samples received by the laboratory on 09/18/19 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keens

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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition:

Cool & Intact

Project Number:

9-6-19

Sample Received By:

Jodi Henson

Project Location:

OXY

Sample ID: NORTH @ SURFACE (H903231-01)

BTEX 8021B	mg/kg		Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2019	ND	1.86	93.1	2.00	3.03	
Toluene*	<0.050	0.050	09/21/2019	ND	1.81	90.6	2.00	2.04	
Ethylbenzene*	< 0.050	0.050	09/21/2019	ND	1.82	91.2	2.00	1.63	
Total Xylenes*	<0.150	0.150	09/21/2019	ND	5.42	90.3	6.00	0.00690	
Total BTEX	<0.300	0.300	09/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/19/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	208	104	200	1.22	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	212	106	200	4.56	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					
Surrogate: 1-Chlorooctane	87.8	% 41-142	?						

Surrogate: 1-Chlorooctadecane

91.1 %

37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. treene

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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

BRAVO DOME #1934-261

Sampling Type:

Soil

Project Name:

09/24/2019

Sampling Condition:

Cool & Intact

Project Number:

9-6-19

Sample Received By:

Jodi Henson

Project Location:

OXY

#### Sample ID: EAST @ SURFACE (H903231-02)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2019	ND	1.86	93.1	2.00	3.03	
Toluene*	<0.050	0.050	09/21/2019	ND	1.81	90.6	2.00	2.04	
Ethylbenzene*	<0.050	0.050	09/21/2019	ND	1.82	91.2	2.00	1.63	
Total Xylenes*	<0.150	0.150	09/21/2019	ND	5.42	90.3	6.00	0.00690	
Total BTEX	<0.300	0.300	09/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	09/19/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	208	104	200	1.22	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	212	106	200	4.56	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					
Surrogate: 1-Chlorooctane	94.8	% 41-142							
Surrogate: 1-Chlorooctadecane	98.7	% 37.6-14	7						

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

9-6-19

Project Location:

OXY

#### Sample ID: WEST @ SURFACE (H903231-03)

BTEX 8021B	mg/	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2019	ND	1.86	93.1	2.00	3.03	
Toluene*	<0.050	0.050	09/21/2019	ND	1.81	90.6	2.00	2.04	
Ethylbenzene*	<0.050	0.050	09/21/2019	ND	1.82	91.2	2.00	1.63	
Total Xylenes*	<0.150	0.150	09/21/2019	ND	5.42	90.3	6.00	0.00690	
Total BTEX	<0.300	0.300	09/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	09/19/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	208	104	200	1.22	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	212	106	200	4.56	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					
Surrogate: 1-Chlorooctane	89.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.0	% 37.6-14	7						

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\*=Accredited Analyte

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

9-6-19 OXY

Sample ID: SOUTH @ SURFACE (H903231-04)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2019	ND	1.86	93.1	2.00	3.03	
Toluene*	<0.050	0.050	09/21/2019	ND	1.81	90.6	2.00	2.04	
Ethylbenzene*	<0.050	0.050	09/21/2019	ND	1.82	91.2	2.00	1.63	
Total Xylenes*	<0.150	0.150	09/21/2019	ND	5.42	90.3	6.00	0.00690	
Total BTEX	<0.300	0.300	09/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	09/19/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	208	104	200	1.22	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	212	106	200	4.56	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					
Surrogate: 1-Chlorooctane	91.0	% 41-142	)						
Surrogate: 1-Chlorooctadecane	94.5	% 37.6-14	7						

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

**BTEX 8021B** 

09/24/2019

mg/kg

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number:

9-6-19

Project Location: OXY

Sample ID: SP 1 @ SURFACE (H903231-05)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2019	ND	1.86	93.1	2.00	3.03	
Toluene*	<0.050	0.050	09/21/2019	ND	1.81	90.6	2.00	2.04	
Ethylbenzene*	< 0.050	0.050	09/21/2019	ND	1.82	91.2	2.00	1.63	
Total Xylenes*	<0.150	0.150	09/21/2019	ND	5.42	90.3	6.00	0.00690	
Total BTEX	<0.300	0.300	09/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6130	16.0	09/19/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	208	104	200	1.22	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	212	106	200	4.56	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					

Analyzed By: BF

Surrogate: 1-Chlorooctane 88.9 % 41-142 Surrogate: 1-Chlorooctadecane 91.3 % 37.6-147

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

**BTEX 8021B** 

09/24/2019

mg/kg

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

9-6-19 OXY

Sample ID: SP 1 @ 1' (H903231-06)

	<u> </u>			<u> </u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2019	ND	1.86	93.1	2.00	3.03	
Toluene*	<0.050	0.050	09/21/2019	ND	1.81	90.6	2.00	2.04	
Ethylbenzene*	<0.050	0.050	09/21/2019	ND	1.82	91.2	2.00	1.63	
Total Xylenes*	<0.150	0.150	09/21/2019	ND	5.42	90.3	6.00	0.00690	
Total BTEX	<0.300	0.300	09/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/19/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	208	104	200	1.22	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	212	106	200	4.56	
DI(0 / C10 C20									

Analyzed By: BF

Surrogate: 1-Chlorooctane 88.8 % 92.8 % Surrogate: 1-Chlorooctadecane

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41-142

37.6-147

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Page 7 of 41



### Analytical Results For:

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

Fax To: (575) 397-0397

Received:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition:

Cool & Intact

Project Number:

9-6-19

Sample Received By:

Jodi Henson

Project Location:

Analyte

OXY

Sample ID: SP 1 @ 2' (H903231-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Reporting Limit

Analyzed Method Blank BS

% Recovery True Value QC RPD

0.00

Qualifier

Chloride

Result

448

16.0 09/19/2019

ND

432

108

400

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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: Reported:

**BTEX 8021B** 

09/18/2019

mg/kg

09/24/2019

Project Name:

BRAVO DOME #1934-261

Project Number: Project Location: 9-6-19

OXY

Sampling Date:

09/17/2019 Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 2 @ SURFACE (H903231-08)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2019	ND	1.86	93.1	2.00	3.03	
Toluene*	<0.050	0.050	09/21/2019	ND	1.81	90.6	2.00	2.04	
Ethylbenzene*	<0.050	0.050	09/21/2019	ND	1.82	91.2	2.00	1.63	
Total Xylenes*	<0.150	0.150	09/21/2019	ND	5.42	90.3	6.00	0.00690	
Total BTEX	<0.300	0.300	09/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 09/19/2019	Method Blank	BS 432	% Recovery	True Value QC 400	RPD 0.00	Qualifier
•		16.0	09/19/2019			,			Qualifier
Chloride	6000	16.0	09/19/2019	ND		,			Qualifier  Qualifier
Chloride TPH 8015M	6000 mg/	16.0 <b>kg</b>	09/19/2019 Analyze	ND d By: MS	432	108	400	0.00	
Chloride TPH 8015M Analyte	6000 mg/ Result	16.0 <b>kg</b> Reporting Limit	09/19/2019  Analyze  Analyzed	ND d By: MS  Method Blank	432 BS	108 % Recovery	400 True Value QC	0.00	

Analyzed By: BF

84.7 % 41-142 Surrogate: 1-Chlorooctane 86.8 % Surrogate: 1-Chlorooctadecane 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Page 9 of 41



### Analytical Results For:

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

Fax To: (575) 397-0397

Received:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

**BTEX 8021B** 

mg/kg

BRAVO DOME #1934-261

Sampling Condition:

Cool & Intact

Project Number:

9-6-19

Sample Received By:

Jodi Henson

Project Location:

OXY

Sample ID: SP 2 @ 1' (H903231-09)

Method Blank  ND  ND  ND	BS 1.86 1.81	% Recovery 93.1	True Value QC 2.00	RPD	Qualifier
ND		93.1	2.00		
	1.81			3.03	
ND		90.6	2.00	2.04	
שוו	1.82	91.2	2.00	1.63	
ND	5.42	90.3	6.00	0.00690	
ND					
ed By: AC					
Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ND	432	108	400	0.00	
ed By: MS					
Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ND	190	95.0	200	0.113	
ND	197	98.4	200	3.16	
ND					
	Method Blank  ND  ND	Method Blank BS  ND 190  ND 197	Method Blank BS % Recovery  ND 190 95.0  ND 197 98.4	Method Blank         BS         % Recovery         True Value QC           ND         190         95.0         200           ND         197         98.4         200	Method Blank BS % Recovery True Value QC RPD  ND 190 95.0 200 0.113  ND 197 98.4 200 3.16

Analyzed By: BF

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition:

Cool & Intact

Project Number:

9-6-19

Sample Received By:

Jodi Henson

Project Location:

OXY

#### Sample ID: SP 2 @ 2' (H903231-10)

Chloride, SM4500CI-B mg/kg		Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	09/19/2019	ND	432	108	400	0.00	

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Page 11 of 41



### Analytical Results For:

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

Fax To: (575) 397-0397

Received:

09/18/2019

Sampling Date: Sampling Type: 09/17/2019

Reported:

09/24/2019

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition:

Cool & Intact

Project Number:

9-6-19

Sample Received By:

Jodi Henson

Project Location:

OXY

#### Sample ID: SP 3 @ SURFACE (H903231-11)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2019	ND	1.86	93.1	2.00	3.03	
Toluene*	<0.050	0.050	09/21/2019	ND	1.81	90.6	2.00	2.04	
Ethylbenzene*	<0.050	0.050	09/21/2019	ND	1.82	91.2	2.00	1.63	
Total Xylenes*	<0.150	0.150	09/21/2019	ND	5.42	90.3	6.00	0.00690	
Total BTEX	<0.300	0.300	09/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30000	16.0	09/19/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	190	95.0	200	0.113	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	197	98.4	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					
Surrogate: 1-Chlorooctane	74.2	% 41-142							
Surrogate: 1-Chlorooctadecane	77.9	% 37.6-14	7						

Cardinal Laboratories \*=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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

9-6-19

Project Location:

OXY

Sample ID: SP 3 @ 1' (H903231-12)

BTEX 8021B	mg/	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2019	ND	1.86	93.1	2.00	3.03	
Toluene*	<0.050	0.050	09/21/2019	ND	1.81	90.6	2.00	2.04	
Ethylbenzene*	<0.050	0.050	09/21/2019	ND	1.82	91.2	2.00	1.63	
Total Xylenes*	<0.150	0.150	09/21/2019	ND	5.42	90.3	6.00	0.00690	
Total BTEX	<0.300	0.300	09/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/19/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	190	95.0	200	0.113	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	197	98.4	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					
Surrogate: 1-Chlorooctane	79.5	% 41-142	!						
Surrogate: 1-Chlorooctadecane	82.6	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition:

Cool & Intact

Project Number:

9-6-19

Sample Received By:

Jodi Henson

Project Location:

OXY

Sample ID: SP 3 @ 2' (H903231-13)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit

Analyzed

Method Blank ND

BS

% Recovery

True Value QC

RPD Qualifier

0.00

Chloride

224

16.0 09/19/2019

432

108

400

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

**BTEX 8021B** 

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

9-6-19

Project Location: OXY

Sample ID: SP 4 @ SURFACE (H903231-14)

DILX GOZID	ilig	/ kg	Allalyze	a by. bi					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2019	ND	1.86	93.1	2.00	3.03	
Toluene*	<0.050	0.050	09/21/2019	ND	1.81	90.6	2.00	2.04	
Ethylbenzene*	<0.050	0.050	09/21/2019	ND	1.82	91.2	2.00	1.63	
Total Xylenes*	<0.150	0.150	09/21/2019	ND	5.42	90.3	6.00	0.00690	
Total BTEX	<0.300	0.300	09/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28800	16.0	09/19/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	190	95.0	200	0.113	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	197	98.4	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					
Surrogate: 1-Chlorooctane	79.0	% 41-142	?						
Surrogata: 1 Chlorocatadacana	Q2 1	0/ 3761/	7						

Analyzed By: BF

Surrogate: 1-Chlorooctadecane

83.1 %

37.6-147

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

**BTEX 8021B** 

09/24/2019

mg/kg

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number:

9-6-19

Project Location: OXY

Sample ID: SP 4 @ 1' (H903231-15)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2019	ND	1.86	93.1	2.00	3.03	
Toluene*	<0.050	0.050	09/21/2019	ND	1.81	90.6	2.00	2.04	
Ethylbenzene*	<0.050	0.050	09/21/2019	ND	1.82	91.2	2.00	1.63	
Total Xylenes*	<0.150	0.150	09/21/2019	ND	5.42	90.3	6.00	0.00690	
Total BTEX	<0.300	0.300	09/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/19/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	190	95.0	200	0.113	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	197	98.4	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					

Analyzed By: BF

Surrogate: 1-Chlorooctane 84.4 % 41-142
Surrogate: 1-Chlorooctadecane 85.9 % 37.6-147

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

400

Project Name:

BRAVO DOME #1934-261

16.0

Sampling Condition:

Cool & Intact

RPD

0.00

Qualifier

Project Number:

9-6-19

304

Sample Received By:

432

108

Jodi Henson

Project Location:

OXY

Sample ID: SP 4 @ 2' (H903231-16)

Chloride, SM4500Cl-B

Chloride

mg/kg

Analyzed By: AC

ND

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

09/19/2019

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition:

Cool & Intact

Project Number: Project Location:

9-6-19

OXY

Sample Received By:

Jodi Henson

#### Sample ID: SP 5 @ SURFACE (H903231-17)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2019	ND	1.86	93.1	2.00	3.03	
Toluene*	<0.050	0.050	09/21/2019	ND	1.81	90.6	2.00	2.04	
Ethylbenzene*	<0.050	0.050	09/21/2019	ND	1.82	91.2	2.00	1.63	
Total Xylenes*	<0.150	0.150	09/21/2019	ND	5.42	90.3	6.00	0.00690	
Total BTEX	<0.300	0.300	09/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	09/19/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	190	95.0	200	0.113	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	197	98.4	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					
Surrogate: 1-Chlorooctane	77.3	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	80.3	% 37.6-14	7						

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

9-6-19

Project Location:

OXY

Sample ID: SP 5 @ 1' (H903231-18)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2019	ND	1.97	98.4	2.00	0.109	
Toluene*	<0.050	0.050	09/23/2019	ND	1.74	87.2	2.00	1.71	
Ethylbenzene*	<0.050	0.050	09/23/2019	ND	1.75	87.5	2.00	1.09	
Total Xylenes*	< 0.150	0.150	09/23/2019	ND	5.36	89.4	6.00	1.02	
Total BTEX	<0.300	0.300	09/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 73.3-12	9						
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	09/19/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	190	95.0	200	0.113	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	197	98.4	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					
Surrogate: 1-Chlorooctane	81.1	% 41-142	·						
Surrogate: 1-Chlorooctadecane	86.7	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane

86.7 %

37.6-147

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

16.0

Sampling Condition:

Cool & Intact

Project Number:

9-6-19

Sample Received By:

Jodi Henson

Project Location:

OXY

Sample ID: SP 5 @ 2' (H903231-19)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit Analyzed

Method Blank

BS

% Recovery

True Value QC 400

Qualifier

Chloride

32.0

09/19/2019

ND

432

108

RPD 0.00

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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: Reported:

**BTEX 8021B** 

09/18/2019

09/24/2019

Project Name:

BRAVO DOME #1934-261

Project Number: Project Location:

9-6-19 OXY Sampling Date:

5.36

89.4

09/17/2019

Sampling Type:

Soil

6.00

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

1.02

Sample ID: SP 6 @ SURFACE (H903231-20)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2019	ND	1.97	98.4	2.00	0.109	
Toluene*	< 0.050	0.050	09/23/2019	ND	1.74	87.2	2.00	1.71	
Ethylbenzene*	< 0.050	0.050	09/23/2019	ND	1.75	87.5	2.00	1.09	

Analyzed By: CK

 Total Xylenes\*
 <0.150</th>
 0.150
 09/23/2019
 ND

 Total BTEX
 <0.300</td>
 0.300
 09/23/2019
 ND

mg/kg

Surrogate: 4-Bromofluorobenzene (PID

95.1 %

73.3-129

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	09/19/2019	ND	432	108	400	0.00	
TPH 8015M	mg	mg/kg Analyzed By: M							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	190	95.0	200	0.113	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	197	98.4	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					

Surrogate: 1-Chlorooctane

76.4 %

41-142

 ${\it Surrogate: 1-Chlorooctade cane}$ 

82.9 %

37.6-147

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

9-6-19

OXY

Project Location:

Sample ID: SP 6 @ 1' (H903231-21)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2019	ND	1.97	98.4	2.00	0.109	
Toluene*	<0.050	0.050	09/23/2019	ND	1.74	87.2	2.00	1.71	
Ethylbenzene*	<0.050	0.050	09/23/2019	ND	1.75	87.5	2.00	1.09	
Total Xylenes*	<0.150	0.150	09/23/2019	ND	5.36	89.4	6.00	1.02	
Total BTEX	<0.300	0.300	09/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	09/19/2019	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	190	95.0	200	0.113	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	197	98.4	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					
Surrogate: 1-Chlorooctane	78.8 % 41-142		ı						
Surrogate: 1-Chlorooctadecane	83.7	% 37.6-14	7						

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition:

Cool & Intact

Project Number:

9-6-19

Sample Received By:

Jodi Henson

Project Location:

OXY

Sample ID: SP 6 @ 2' (H903231-22)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit

Analyzed

Method Blank ND

BS

% Recovery

True Value QC

RPD

0.00

Chloride

32.0

16.0 09/19/2019

432

108

400

Qualifier

Cardinal Laboratories

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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: Reported: 09/18/2019

09/24/2019

Project Name:

BRAVO DOME #1934-261

Project Number: Project Location: 9-6-19 OXY

Sampling Date: Sampling Type: 09/17/2019

Soil Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: SP 7 @ SURFACE (H903231-23)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2019	ND	1.97	98.4	2.00	0.109	
Toluene*	<0.050	0.050	09/23/2019	ND	1.74	87.2	2.00	1.71	
Ethylbenzene*	<0.050	0.050	09/23/2019	ND	1.75	87.5	2.00	1.09	
Total Xylenes*	<0.150	0.150	09/23/2019	ND	5.36	89.4	6.00	1.02	
Total BTEX	<0.300	0.300	09/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	09/19/2019	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	190	95.0	200	0.113	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	197	98.4	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					
Surrogate: 1-Chlorooctane	77.4	% 41-142	!						
Surrogate: 1-Chlorooctadecane	81.1	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location: 9-6-19 OXY

Sample ID: SP 7 @ 1' (H903231-24) **BTEX 8021B** 

DRO >C10-C28\*

EXT DRO >C28-C36

mg/kg	Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2019	ND	1.97	98.4	2.00	0.109	
Toluene*	<0.050	0.050	09/23/2019	ND	1.74	87.2	2.00	1.71	
Ethylbenzene*	<0.050	0.050	09/23/2019	ND	1.75	87.5	2.00	1.09	
Total Xylenes*	<0.150	0.150	09/23/2019	ND	5.36	89.4	6.00	1.02	
Total BTEX	<0.300	0.300	09/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 73.3-12	9						
Chloride, SM4500CI-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	09/19/2019	ND	416	104	400	3.92	
TPH 8015M	mg/kg Analyze		d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	190	95.0	200	0.113	

ND

ND

197

98.4

200

3.16

09/19/2019

09/19/2019

Surrogate: 1-Chlorooctane 77.3 % 41-142 79.7 % Surrogate: 1-Chlorooctadecane 37.6-147

<10.0

<10.0

10.0

10.0

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

9-6-19

Project Location: OXY

Sample ID: SP 7 @ 2' (H903231-25)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit

Analyzed 09/19/2019 Method Blank ND

% Recovery

True Value QC

RPD Qualifier

Chloride

48.0

16.0

416

104

400

3.92

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

9-6-19

Project Location: OXY

Sample ID: SP 8 @ SURFACE (H903231-26)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2019	ND	1.97	98.4	2.00	0.109	
Toluene*	<0.050	0.050	09/23/2019	ND	1.74	87.2	2.00	1.71	
Ethylbenzene*	<0.050	0.050	09/23/2019	ND	1.75	87.5	2.00	1.09	
Total Xylenes*	<0.150	0.150	09/23/2019	ND	5.36	89.4	6.00	1.02	
Total BTEX	<0.300	0.300	09/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	09/19/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	190	95.0	200	0.113	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	197	98.4	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					
Surrogate: 1-Chlorooctane	75.1 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	77.6	% 37.6-14	7						

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

Sampling Type:

Soil

09/24/2019

BRAVO DOME #1934-261

Sampling Condition:

Cool & Intact

Project Name: Project Number:

9-6-19

Sample Received By:

Jodi Henson

Project Location:

OXY

Sample ID: SP 8 @ 1' (H903231-27)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2019	ND	1.97	98.4	2.00	0.109	
Toluene*	<0.050	0.050	09/23/2019	ND	1.74	87.2	2.00	1.71	
Ethylbenzene*	<0.050	0.050	09/23/2019	ND	1.75	87.5	2.00	1.09	
Total Xylenes*	<0.150	0.150	09/23/2019	ND	5.36	89.4	6.00	1.02	
Total BTEX	<0.300	0.300	09/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	09/19/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	190	95.0	200	0.113	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	197	98.4	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					
Surrogate: 1-Chlorooctane	80.9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	83.4	% 37.6-14	7						

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Reporting Limit

16.0

Reporting Limit

Sampling Condition:

Cool & Intact

Project Number:

9-6-19

Sample Received By:

Jodi Henson

Project Location:

Analyte

Analyte

OXY

Sample ID: SP 8 @ 2' (H903231-28)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

True Value QC

Chloride

Result 832

Analyzed 09/19/2019

Analyzed

Method Blank ND

BS 416 % Recovery 104

400

Qualifier

Sample ID: SP 8 @ 3' (H903231-29)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

RPD

3.92

Chloride

Chloride

Result 96.0

16.0 09/19/2019 Method Blank ND

BS 416

BS

416

% Recovery 104

True Value QC 400

RPD Qualifier 3.92

Sample ID: SP 8 @ 4' (H903231-30)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Result Analyte Reporting Limit Analyzed 96.0 16.0 09/19/2019

ND

Method Blank

104

% Recovery

True Value QC 400

**RPD** 3.92

Qualifier

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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: Reported: Project Name: 09/18/2019

09/24/2019

BRAVO DOME #1934-261

Project Number: Project Location: 9-6-19 OXY

Sampling Date:

09/17/2019

Sampling Type: Sampling Condition: Soil Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: SP 9 @ SURFACE (H903231-31)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2019	ND	1.97	98.4	2.00	0.109	
Toluene*	< 0.050	0.050	09/23/2019	ND	1.74	87.2	2.00	1.71	
Ethylbenzene*	<0.050	0.050	09/23/2019	ND	1.75	87.5	2.00	1.09	
Total Xylenes*	<0.150	0.150	09/23/2019	ND	5.36	89.4	6.00	1.02	
Total BTEX	<0.300	0.300	09/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	09/19/2019	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	190	95.0	200	0.113	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	197	98.4	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					
Surrogate: 1-Chlorooctane	80.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	83.8	% 37.6-14	7						

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

9-6-19

Project Location:

OXY

Sample ID: SP 9 @ 1' (H	903231-32)
BTEX 8021B	ma/ka

BTEX 8021B	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2019	ND	1.97	98.4	2.00	0.109	
Toluene*	<0.050	0.050	09/23/2019	ND	1.74	87.2	2.00	1.71	
Ethylbenzene*	<0.050	0.050	09/23/2019	ND	1.75	87.5	2.00	1.09	
Total Xylenes*	<0.150	0.150	09/23/2019	ND	5.36	89.4	6.00	1.02	
Total BTEX	<0.300	0.300	09/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/19/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	190	95.0	200	0.113	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	197	98.4	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					
Surrogate: 1-Chlorooctane	81.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	87.0	% 37.6-14	7						

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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:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Reporting Limit

16.0

Reporting Limit

16.0

Sampling Condition:

Cool & Intact

Project Number:

Project Location:

9-6-19 OXY

Sample Received By:

Jodi Henson

Sample ID: SP 9 @ 2' (H903231-33)

Chloride, SM4500Cl-B

Analyte

Analyte

mg/kg

Analyzed By: AC

BS % Recovery True Value QC

Qualifier

Chloride

Result 624

09/19/2019

Analyzed

Analyzed

Analyzed

09/19/2019

Method Blank ND

416

Sample ID: SP 9 @ 3' (H903231-34)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

104

400

3.92

RPD

Chloride

Result 784

16.0 09/19/2019 Method Blank ND

ND

ND

BS 416 % Recovery 104

True Value QC 400

RPD

Qualifier 3.92

Sample ID: SP 9 @ 4' (H903231-35)

Chloride, SM4500Cl-B

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Result Analyte Reporting Limit

Method Blank BS

416

416

% Recovery

104

True Value QC

400

**RPD** 

3.92

Qualifier

Chloride

Sample ID: SP 9 @ 5' (H903231-36)

Analyte Result Reporting Limit Analyzed Chloride 128 16.0 09/19/2019

mg/kg

128

Analyzed By: AC

Method Blank BS

% Recovery

104

True Value QC 400

RPD

3.92

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 32 of 41



## Analytical Results For:

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

Fax To: (575) 397-0397

Received:

09/18/2019

Sampling Date:

09/17/2019

Reported:

**BTEX 8021B** 

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

9-6-19

Project Location: OXY

Sample ID: SP 10 @ SURFACE (H903231-37)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2019	ND	1.97	98.4	2.00	0.109	
Toluene*	<0.050	0.050	09/23/2019	ND	1.74	87.2	2.00	1.71	
Ethylbenzene*	<0.050	0.050	09/23/2019	ND	1.75	87.5	2.00	1.09	
Total Xylenes*	< 0.150	0.150	09/23/2019	ND	5.36	89.4	6.00	1.02	
Total BTEX	<0.300	0.300	09/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	09/19/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	190	95.0	200	0.113	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	197	98.4	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					
Surrogate: 1-Chlorooctane	78.0	% 41-142	ı						

Analyzed By: CK

Surrogate: 1-Chlorooctadecane

82.2 %

37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Page 33 of 41



## Analytical Results For:

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

Fax To: (575) 397-0397

Received:

09/18/2019

Sampling Date:

09/17/2019

Reported:

Sampling Type:

Soil

09/24/2019

BRAVO DOME #1934-261

Sampling Condition:

Cool & Intact

Project Name: Project Number:

9-6-19

Sample Received By:

Jodi Henson

Project Location:

OXY

Sample ID: SP 10 @ 1' (H903231-38)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2019	ND	1.97	98.4	2.00	0.109	
Toluene*	< 0.050	0.050	09/23/2019	ND	1.74	87.2	2.00	1.71	
Ethylbenzene*	< 0.050	0.050	09/23/2019	ND	1.75	87.5	2.00	1.09	
Total Xylenes*	< 0.150	0.150	09/23/2019	ND	5.36	89.4	6.00	1.02	
Total BTEX	<0.300	0.300	09/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	09/19/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2019	ND	190	95.0	200	0.113	
DRO >C10-C28*	<10.0	10.0	09/19/2019	ND	197	98.4	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	09/19/2019	ND					
Surrogate: 1-Chlorooctane	82.2 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	84.7	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager

Page 34 of 41



#### Analytical Results For:

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

Fax To: (575) 397-0397

Received:

09/18/2019

Sampling Date:

09/17/2019

Reported:

09/24/2019

Sampling Type:

Soil

Project Name:

BRAVO DOME #1934-261

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

Analyte

9-6-19

OXY

Project Location:

Sample ID: SP 10 @ 2' (H903231-39)

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

Analyzed

09/19/2019

% Recovery

True Value QC

Qualifier

Chloride

Chloride

Chloride

Result 720

16.0

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

ND

104

400

RPD

3.92

3.92

3.92

Sample ID: SP 10 @ 3' (H903231-40)

Chloride, SM4500Cl-B

Analyzed By: AC

Analyte

Result

96.0

Analyzed

09/19/2019

Method Blank

ND

ND

Method Blank

BS 416

BS

416

BS

416

% Recovery 104

True Value QC 400

RPD

Qualifier

Sample ID: SP 10 @ 4' (H903231-41)

Chloride, SM4500Cl-B

Analyte

mg/kg

Result

80.0

Analyzed By: AC

Analyzed

09/19/2019

Method Blank

% Recovery 104

True Value QC **RPD** 

400

Qualifier

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ND



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

#### **Notes and Definitions**

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Analyte NOT DETECTED at or above the reporting limit

Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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10/5

## ARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	: BBC International, Inc.	_		-		-	-	-	9##																		
	r: Cliff Brunson						-	-			5 II E	LL TO	- E - 11 E	_		_			ANA	LYS	IS	RE	QUE	ST	_		 
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Address: P.O.	TAIL DO THE PROPERTY AND ADDRESS OF THE PROPERTY OF THE PROPER						_	Co	mpa	ny:	(	Dx y												1			
city: Hobbs	State: NM	Zip	: 8	3824	1		_	Att	n: (	ئ	) -	0,4	rich														
Phone #: 575-	397-6388 Fax #: 575	-397	7-0	397				Add	dres	ss:																	
Project #:	Project Owne	r: O	сy					City	<b>/</b> :																		
Project Name:	BRAVO DOME #1934-261 - 9-6-1	9						Sta	te:		- 3	Zip:															
Project Location	n:							Pho	one	#:				1	¥												
Sampler Name:	JEFF ORNELAS							Fax		PAIR II				9	7												
FOR LAB USE ONLY					MAT	RIX			PRE	SER	V.	SAMPL	ING	. 3	1 X					1							
		MP		or l							1			1	3	10	$\times$										
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Lab I.D.	Sample I.D.	OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL		m	400	SE:	징				12	0	1	$\vdash$										
· looged		Ϋ́B	TNC	N E			DG	ER	)/B/	00/	盗			Ch		, ,	$\mathcal{Q}$										
H903231		(6)	# C(	GRC	SOII	등	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	5	DATE	TIME	$1^{\sim}$	1	1											
1	NORTH @ SURFACE G 1									-		9-17-19	8:45	V		+	_									$\top$	$\neg$
2	EAST @ SURFACE	1	İ		1					1		9-17-19	8:59	-	_	٠.	_										
3	WEST @ SURFACE									П		9-17-19	9:11	-	-	ϯ.	_										
4	SOUTH @ SURFACE											9-17-19	9:22	_	_	-	_										
5	SP1 @ SURFACE											9-17-19	9:33	-	1	1	_				T						
6	SP1 @ 1'											9-17-19	9:44		-	+.											
7	SP1 @ 2'							İ				9-17-19	9:55	_	5	T										1	
8	SP2 @ SURFACE					10	2				1	9-17-19	10:01	_		+,	-										
9	SP2 @ 1'	П	П			55						9-17-19	10:10				-										
10	SP2 @ 2'	V	J		V					1		9-17-19	10:25	1													
analyses. All claims includi	nd Damages. Cardinal's liability and client's exclusive remedy for a ng those for negligence and any other cause whatsoever shall be	deemed	waive	ed unless	made in	writin	g and i	eceiv	ed by	Cardin	al wi	thin 30 days after	er completion of	the applical	ole												
service. In no event shall C	ardinal be liable for incidental or consequental damages, including out of or related to the performance of services hereunder by C	without	t limita	ation, bus	iness inte	rrupti	ons, lo	ss of	use, o	r loss o	of pro	fits incurred by	client, its subsidi	aries.					141								
Relinquished By:													Phone Re	esult:	□ Ye					Phon							
1/2/5	Time: Jenny								Ok	ert			Fax Resu REMARK		□ Ye	es		10	Add'l	Fax #	÷:						
Relinguished B	Relinquished By: Date: 9-18-9 Received By:																										
		d.	- 1	1 1	0	1	2	14																			
Delivered By: (Circle One)  Sampler - UPS - Bus - Other:  Time: 10  Sample Condition Cool Intact Cool Intact Fives Fives																											
Delivered By	(Circle One) 2 no 4corre	56	d		mple ool l			n	(	CHE	CKI	DAY:															- 1
Sampler - UPS	- Bus - Other: -1.60	#	9-	7 E	Yes No	1	Yes No		_	5	1	M						50									
† Cardinal	cannot accept verbal changes. Please	fax	wri	tten c	chang	es	to 5	05-	393	-247	6																

Company Name: BBC International, Inc.

Page 38 of 41

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# ARDINAL LABORATORIES

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

Company Name	BBC International, Inc.									B	IL	L TO	11.4					Α	NAI	LYS	IS I	REC	QUE	ST			
Project Manage	r: Cliff Brunson							P	.0.	#:																	
Address: P.O.	. Box 805							С	om	oan	ıy:																
city: Hobbs	State: NM	Zip	: 8	382	41			Α	ttn:																		
Phone #: 575-	397-6388 Fax #: 575	-39	7-0	397				A	ddr	ess	:																
Project #:	Project Owner	r: O	ху					С	ity:																		
Project Name:	BRAVO DOME #1934-261 - 9-6-1	9						s	tate			2	Zip:														
Project Location	n:							Р	hon	e #					1	2004											
Sampler Name:	JEFF ORNELAS							F	ax #	:					6	x t			- 1								
FOR LAB USE ONLY					M	ATF	RIX		PF	RES	ER\	4	SAMPLI	NG	0	W											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER		ц		ASE:	IOO					hlor	PH	1.	2/1/2									
H903231			# CON	GROU	WASTE	SOIL	SHIDGE	OTHER :	ACID/BASE	ICE / COOI	OTHER		DATE	TIME	J	/~		~									
	SP3 @ SURFACE	G	1		1					2	1		9-17-19	10:30	V.			_									
	SP3 @ 1'	1	1			1				1		9	9-17-19	10:40	-	_	-	-									
13	SP3 @ 2'	Ш	Ш									9	9-17-19	10:50	~												
14	SP4 @ SURFACE		Ш									9	9-17-19	10:59	_		-	_									
15	SP4 @ 1'		Ш									9	9-17-19	11:11	_	_	-										
16	SP4 @ 2'	Ш	Ш									9	9-17-19	11:25	_												
17	SP5 @ SURFACE		Ш									3	9-17-19	11:33	_	_		-									
18	SP5 @ 1'	Ш	Ш									3	9-17-19	11:44	_	_	-										
19	SP5 @ 2'		Ш									3	9-17-19	11:59													
20	SP6 @ SURFACE	1	1		,	4				9			9-17-19	12:12	_	_	-										
analyses. All claims includi service. In no event shall C	nd Damages. Cardinal's liability and client's exclusive remedy for a ng those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, including	deeme withou	d waiv ut limit	ed unle	ss mad usiness	le in w interr	riting a uptions	nd red	ceived of use	by Ca	ardina oss of	l with prof	hin 30 days afte fits incurred by o	r completion of t	the applicat aries,	ole											
Relinquished B	ing out of related to the performance of services hereunder by 0  y:  Date:			ved		ner su	ch clair	n is ba	ased u	pon a	ny of	the a	above stated rea	Phone Re		☐ Ye	s	□ No	1	\dd'l	Phone	e #:	_		_	-	
Wiff.	Date: 9.19				if	2	Bc	ea	Ly					Fax Resul	lt:	□ Ye		□ No			Fax #						
Relinquished B	y: Date:							, 1			100																
Q. Gill	Date: 9-18-19 Time: 4:00 : (Circle One) + 4000000	6	H	200	li	-	A	Le	N	1	0	9	R														
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		_				NO [		0			1																

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

	(505) 393-2326 FAX (505) 393-247	6																									
	e: BBC International, Inc.											BI	LL TO	n					Δ	NAI	LYSI	SF	REQU	JES <sup>1</sup>	Г		
Project Manage	er: Cliff Brunson								P.	0. #	<b>‡:</b>											T					T
Address: P.O	. Box 805								Co	mp	any	y:									8						
city: Hobbs	State: NM	Ziŗ	): {	382	241				At	tn:														1			
Phone #: 575-	-397-6388 Fax #: 575	-39	7-0	39	7				Ad	idre	ess:	:															
Project #:	Project Owner	r: O	ху						Cit	ty:																	
Project Name:	BRAVO DOME #1934-261 - 9-6-1	9							Sta	ate:			Zip:								196						
Project Locatio	on:								Ph	one	e #:		-			l į											
Sampler Name:	: JEFF ORNELAS								Fa	x #:	/3 #7				`	7	5										
FOR LAB USE ONLY		Ī.				MAT	RIX			PR	ESE	ERV.	SAMPL	ING	7. 3	1 17	ì	×									
		OR (C)OMP.	S	띪	~										0 1/0			U									
Lab I.D.	Sample I.D.	R (C	NER	WAT	ATE	1				шi	_				7	77	C	1									
Lab I.D.	Cample 1.5.	AB O	MTA	SND	LEW,			GE	2	BAS	000	<u>د</u>					'	$\infty$									
H903231		(G)RAB	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	) C	SLUD	THE	ACID/BASE:	CE/	OTHER	DATE	TIME		1	`										
	SP6 @ 1'	Ť	7	Ť		0,		0,		1	_		9-17-19	12:40	7			$\rightarrow$	_			+	_	+	$\dashv$		_
22	SP6 @ 1' SP6 @ 2'			T									9-17-19	12:50	1 /	-											
23	SP7 @ SURFACE												9-17-19	12:51	1			_				T			$\exists$		
24	SP7 @ 1'												9-17-19	12:56	-	-	-	_									
25	SP7 @ 2'												9-17-19	12:59	_												
26	SP8 @ SURFACE		L										9-17-19	1:01	_		- 4	-									
31	SP8 @ 1' SP8 @ 2'												9-17-19	1:05			-	/									
28	SP8 @ 2'												9-17-19	1:11	_	2											
29			L	L							L	'	9-17-19	1:16													
PLEASE NOTE: Liability:	SP8 @ 4'	- v ola			athor	7004	12.00	-11		L			9-17-19	1:27		+											
analyses. All claims includ	and Damages. Cardinal's liability and client's exclusive remedy for a fing those for negligence and any other cause whatsoever shall be i Cardinal be liable for incidental or consequental damages, including	deeme	d waiv	red uni	less ma	ade in v	writing	ng and	d rece	ived b	y Car	rdinal v	within 30 days aft	ter completion o	of the applic	able											
affiliates or successors aris	sing out of or related to the performance of services hereunder by C	ardina	I, rega	ardless	of whe	ether su	uch c	laim i	s bas	ed up	on an	y of th	rolls incurred by ie above stated re	easons or other	wise.												
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2 Coll	Time:	6	M	11	W			1	Le	N	1	DI	on	-													
Delivered By	livered By: (Circle One)										CH	ECK	KED/BY	1													

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

## Page 40 of 41

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	BBC International, Inc.							8		L	3//	LL TO						ANA	LYS	S R	EQUE	ST		
Project Manage	r: Cliff Brunson							P.C	). #:															
Address: P.O	. Box 805							Со	mpa	any:	9													
city: Hobbs	State: NM	Zip	: 8	824	1			Att	n:															
Phone #: 575-	397-6388 Fax #: 575	-39	7-0	397				Ad	dres	ss:														
Project #:	Project Owne		ху					Cit	y:															
Project Name:	BRAVO DOME #1934-261 - 9-6-1	9						Sta	te:			Zip:												
Project Location	n:							Ph	one	#:					+									
Sampler Name:	JEFF ORNELAS							Fax	(#:					6	E									
FOR LAB USE ONLY					MA	TRI	K		PRE	SE	₹٧.	SAMPL	ING	10	A	×								
		OR (C)OMP	,,	<u>بر</u>	22									0		.5	j							
Lab I.D.	Sample I.D.	(C)	VER	VATE					iii	-11	1			1/1	4	1								
Lab I.D.	Sample I.D.	BO	ITAII	ON!	EW		Щ	 	3ASI	000	٠. د			2	6	8								
H903231		(G)RAB	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME		1-									
31	31 SP9 @ SURFACE											9-17-19	1:30	~			1		+-	+	+	-	-	 $\vdash$
32	31 SP9 @ SURFACE 32 SP9 @ 1'										7	9-17-19	1:35	1	-	-								
2/2	SP9 @ 2'		Г									9-17-19	1:40	/		12000					+			
34	SP9 @ 3											9-17-19	1:50	~										 
35	SP9 @ 4'											9-17-19	1:59	-										
	SP9 @ 5'											9-17-19	2:11	-										
37	SP10 @ SURFACE											9-17-19	2:15	/										
38	SP10 @ 1'											9-17-19	2:22	/	~	_	†							
34	SP10 @ 2'	-			4							9-17-19	2:32	-										
PLEASE NOTE: Liability at	SP10 @ 3' and Damages. Cardinal's liability and client's exclusive remedy for a	nv clai	m arisi	ng wheth	er hase	d in co	ntract	or tort	shall	he lim	ited t	9-17-19	2:42											
service. In no event shall C	ng those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, including	deeme	d waiv It limita	ed unless ition, bus	made iness ir	n writi	ng and tions, lo	receives of	red by use. o	Cardi r loss	nal w	ithin 30 days afte	er completion of t	he applicat	ole									
Relinquished B	ng out of or related to the performance of services hereunder by 0	ardina	, rega	dless of	whether	such	claim is	base	d upor	n any	of the	above stated re	Phone Re	se.	☐ Ye	e [	No	Add'	l Phone	. #.				
2./0./9													Fax Resu	lt:	☐ Ye	s [	No		Fax #					
12'00 Dem for Geller													REMARK	5:										
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Delivered By: (Circle One) #.4 Correl + Sample Condition   CHECKED BY:																								
Sampler - UPS - Bus - Other: C-1-6-407 Pyes Pyes																								
+ Cardinal	Cardinal cannot accent verbal changes. Please fax written changes to 505 2022 75																							

Page 41 of 41

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

## ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Company Name: BBC International, Inc.										BI	LL TO		ie"Vii					ANA	LYSI	S RE	QUE	ST		
Project Manager: Cliff Brunson							P.	O. #	:															
Address: P.O. Box 805							Co	omp	any	<i>r</i> :														
city: Hobbs State: NM	Zip	): {	882	41			At	tn:																
Phone #: 575-397-6388 Fax #: 57	5-39	7-0	39	7			Ac	dre	ss:															
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Project Name: BRAVO DOME #1934-261 - 9-6	19						St	ate:			Zip:													
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Sampler Name: JEFF ORNELAS							Fa	x #:						0	K									
FOR LAB USE ONLY	١			N	IATR	IX		PR	ESE	RV.	SAMP	LING		r. 10		×								
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H903231	3)RA	# CONTAINERS	ROL	WASTEWATER	SOIL	SLUDGE	THE	ACID/BASE:	ICE / COOL	OTHER:	DATE	70	ME		1									
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PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy	or any clai	im aris	sing wh	ether b	ased in	contrac	ct or to	rt, sha	ll be li	mited	o the amount	paid by the	client for	the										
analyses. All claims including those for negligence and any other cause whatsoever shall service. In no event shall Cardinal be liable for incidental or consequental damages, inclu	oe deeme ling witho	d waiv ut limit	ved un tation,	less ma busines	de in wr s interru	iting an	nd rece	eived b	y Car or los	dinal was of pr	vithin 30 days a ofits incurred b	fter comple y client, its	etion of the	ne applicab ries,	ole									
affiliates or successors arising out of or related to the performance of services hereunder	y Cardina	I, rega	ardless	of whet	ther suc	h claim	is bas	sed up	on an	y of the	above stated	reasons or	otherwis	e.	□ Ye	s [	No	Add'	Phone	· #:				
/// // g-/8-/9	Pelinquished By:  Date: Property Received By:  Time: Date: Received By:  Page: Received By:											Fax	Result	t:	□ Ye		No		Fax #:					
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