

# Closure Report

INCIDENT ID#nAPP2308056133

## Site Description

Site Name:	BRAVO DOME 1932 O51G LEG 10
Company:	Oxy USA, Inc.
Legal Description:	U/L K, Section 5, T19N , R32E
County:	Hardding County, NM
GPS Coordinates:	N 35.9060177,W-103.5663581

## Release Data

Date of Release:	3/8/2023
Type of Release:	PRODUCED WATER
Source of Release:	24" STEEL PIPELINE
Volume of Release:	17 BBLS
Volume Recovered:	0BBLS

## Remediation Specifications

Remediation Parameters:	<p>OXY excavated the spill area as depicted on the following site diagram. The entire leak area (GREEN shade on diagram) was excavated to a depth of 3' feet OXY collected bottom and sidewall confirmation samples every 200 square feet.</p>
Remediation Activities:	9/20/24 -11/04/24

Plan Sent to OCD:		
OCD Approval of Plan:		
Plan Sent to BLM:		
BLM Approval of Plan:		

## Supporting Documentation

C-141, page 6	signed and included	
Site Diagram	Google Earth map with excavation depths & confirmation sample points	
Pictures	Remediation photos	
Lab Summary/Analysis	Confirmation lab summary/analysis report for 10/14/24,10/15/24 ,10/16/24	
Notifications	10/10/2024	

## Request for Closure

Based on the completion of the remediation, OXY requests closure approval from the NMOCD.	
Cliff Brunson, President of BBC International Inc.	12/20/2024

# OXY,BRAVO DOME 1932 051G LEG 10

LEAK DATE :3/08/2023  
HARDING COUNTY, NM  
ID#nAPP2308056133

## Legend

- 3' excavation
- BOTTOM CONFIRMATION SAMPLE POINTS
- Leak Area 3-8-23
- SIDEWALL CONFIRMATION SAMPLE POINTS



Google Earth

100 ft





OXY,BRAVO DOME 1932 051G LEG 10 (9/17/24)      SAMPE DATES 10-14-24 TO 10-16-24

## BOTTOM SAMPLES

BS 1@3'	N 35.905605	W-103.566008
BS 2@3'	N 35.905578	W-103.566017
BS 3@3'	N 35.905595	W-103.565983
BS 4@3'	N 35.905577	W-103.565983
BS 5@3'	N 35.905569	W-103.566014
BS 6@3'	N 35.905591	W-103.566014
BS 7@3'	N 35.905577	W-103.565981
BS 8@3'	N 35.905563	W-103.565995
BS 9@3'	N 35.905551	W-103.566028
BS 10@3'	N 35.905581	W-103.565953
BS 11@3'	N 35.905564	W-103.565966
BS 12@3'	N 35.905546	W-103.565986
BS 13@3'	N 35.905569	W-103.565932
BS 14@3'	N 35.905548	W-103.565947
BS 15@3'	N 35.905531	W-103.565965
BS 16@3'	N 35.905549	W-103.565914
BS 17@3'	N 35.905536	W-103.565931
BS 18@3'	N 35.905524	W-103.565947
BS 19@3'	N 35.905535	W-103.565897
BS 20@3'	N 35.905525	W-103.565915
BS 21@3'	N 35.905514	W-103.565934
BS 22@3'	N 35.905505	W-103.565914
BS 23@3'	N 35.905512	W-103.565898
BS 24@3'	N 35.905519	W-103.565888
BS 25@3'	N 35.905494	W-103.565907
BS 26@3'	N 35.905499	W-103.565896
BS 27@3'	N 35.905505	W-103.565885
BS 28@3'	N 35.905513	W-103.565873
BS 29@3'	N 35.905487	W-103.565900
BS 30@3'	N 35.905492	W-103.565889
BS 31@3'	N 35.905498	W-103.565876
BS 32@3'	N 35.905505	W-103.565863
BS 33@3'	N 35.905479	W-103.565889
BS 34@3'	N 35.905485	W-103.565879
BS 35@3'	N 35.905491	W-103.565865
BS 36@3'	N 35.905497	W-103.565851
BS 37@3'	N 35.905878	W-103.565878
BS 38@3'	N 35.905476	W-103.565865
BS 39@3'	N 35.905481	W-103.565852
BS 49@3'	N 35.905488	W-103.565841

SIDEWALL SAMPLE POINTS

SW 1	N 35.905614	W-103.566016
SW 2	N 35.905575	W-103.566030
SW 3	N 35.905544	W-103.566008
SW 4	N 35.905517	W-103.565952
SW 5	N 35.905497	W-103.565915
SW 6	N 35.905474	W-103.565891
SW 7	N 35.905470	W-103.565850
SW 8	N 35.905518	W-103.565867
SW 9	N 35.905550	W-103.565898
SW 10	N 35.905570	W-103.565921
SW 11	N 35.905589	W-103.565943
SW 12	N 35.905614	W-103.565974

	Sample ID	BS 1@3'	BS 2@3'	BS 3@3'	BS 4@3'	BS 5@3'	BS 6@3'	BS 7@3'	BS 8@3'	BS 9@3'	BS 10@3'	BS 11@3'	BS 12@3'	BS 13@3'	BS 14@3'	BS 15@3'	BS 16@3'	BS 17@3'	BS 18@3'
Analyte	Date	10/14/24	10/14/24	10/14/24	10/14/24	10/14/24	10/14/24	10/14/24	10/14/24	10/14/24	10/14/24	10/14/24	10/14/24	10/14/24	10/14/24	10/14/24	10/14/24	10/14/24	10/14/24
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride		128.0	160.0	128.0	80.0	112.0	192.0	160.0	160.0	112.0	208.0	96.0	128.0	112.0	128.0	80.0	96.0	80.0	48.0
GRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

	Sample ID	BS 19@3'	BS 20@3'	BS 21@3'	BS 22@3'	BS 23@3'	BS 24@3'	BS 25@3'	BS 26@3'	BS 27@3'	BS 28@3'	BS 29@3'	BS 30@3'	BS 31@3'	BS 32@3'	BS 33@3'	BS 34@3'	BS 35@3'	BS 36@3'
Analyte	Date	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride		32.0	32.0	32.0	32.0	48.0	32.0	48.0	64.0	64.0	64.0	64.0	80.0	96.0	128.0	112.0	96.0	96.0	96.0
GRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

	Sample ID	BS 37@3'	BS 38@3'	BS 39@3'	BS 40@3'
Analyte	Date	10/15/24	10/15/24	10/15/24	10/15/24
		mg/kg	mg/kg	mg/kg	mg/kg
Benzene		<0.050	<0.050	<0.050	<0.050
Toluene		<0.050	<0.050	<0.050	<0.050
Ethylbenzene		<0.050	<0.050	<0.050	<0.050
Total Xylenes		<0.150	<0.150	<0.150	<0.150
Total BTEX		<0.300	<0.300	<0.300	<0.300
Chloride		112.0	64.0	112.0	96.0
GRO		<10.0	<10.0	<10.0	<10.0
DRO		<10.0	<10.0	<10.0	<10.0
EXT DRO		<10.0	<10.0	<10.0	<10.0

	Sample ID	SW 1	SW 2	SW 3	SW 4	SW 5	SW 6	SW 7	SW 8	SW 9	SW 10	SW 11	SW 12
Analyte	Date	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/15/24	10/16/24	10/16/24	10/16/24
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride		112.0	80.0	112.0	80.0	112.0	112.0	128.0	128.0	80.0	96.0	128.0	80.0
GRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0





# FEMA's National Flood Hazard Layer (NFHL) Viewer

with Web AppBuilder for ArcGIS



35.9060177 ,-103.5663581



Show search results for 35.9060177 ,-...



## NFHL Print Tool

Input

Output

### OutputMessage

FEMA has not completed a study to determine flood hazard for the selected location; therefore, a flood map has not been published at this time.

### OutputFile

undefined: null

600ft

103.571 25.911 Degrees





BRAVO DOME 1932 051G LEG 10 (03/08/



November 22, 2024

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

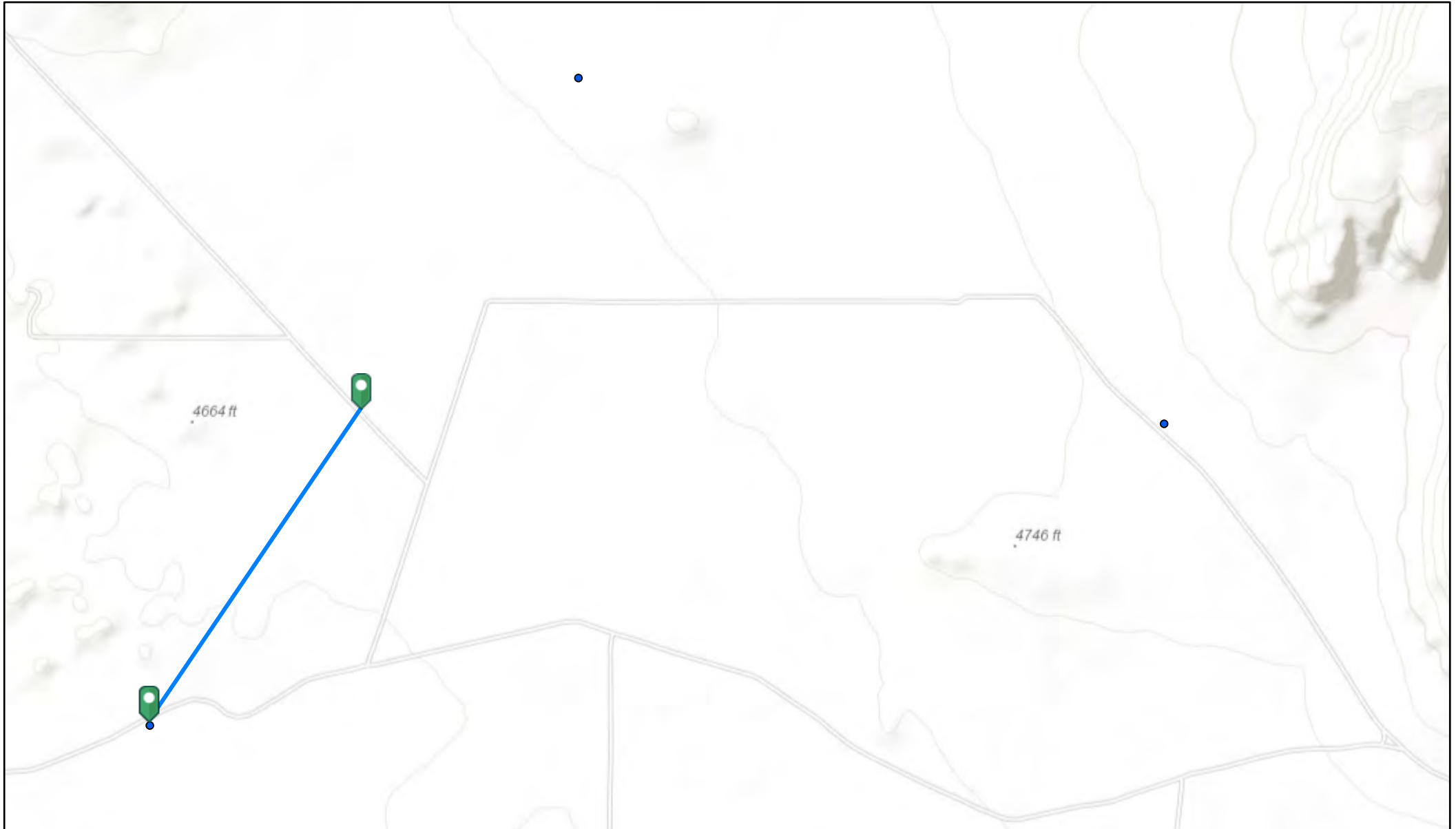
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

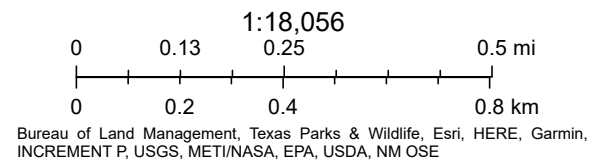


# OXY,BRAVO DOME 1932 051G LEG 10 (03/08/23) 0.66 MILES TO WATER POD

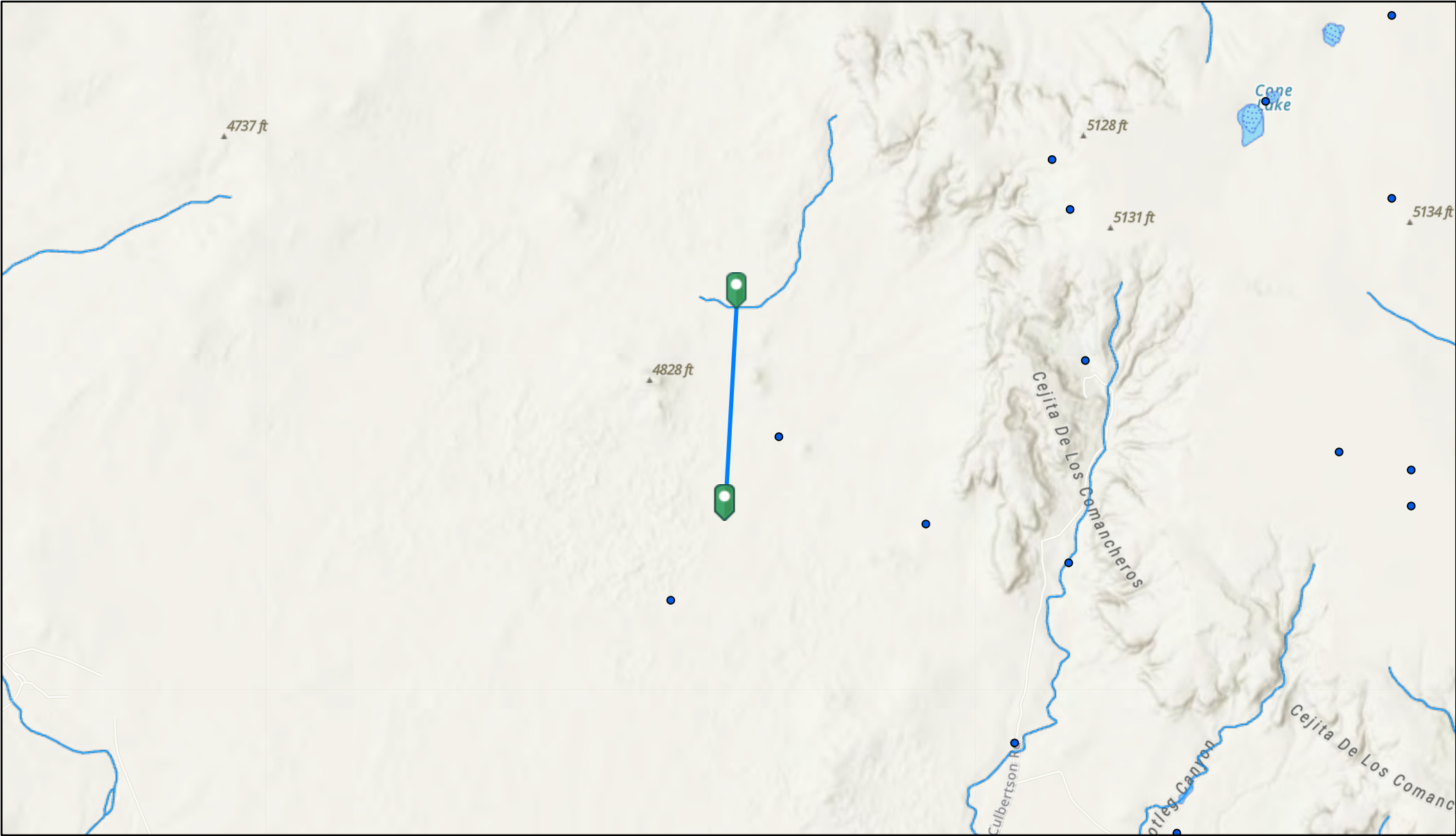


11/19/2024, 4:39:25 PM

• OSE Water PODs

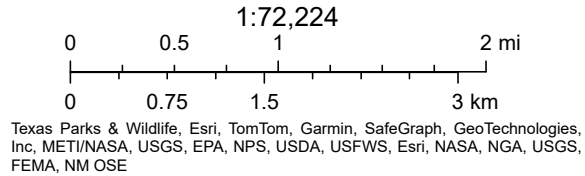


# OXY, BRAVO DOME 1932 051G LEG 10 (03/08/23) 1.46 MILES OR 7,730 FEET TO H2O



11/22/2024, 2:47:08 PM

- OSE Water PODs
- OSE Probable Playas
- OSW Water Bodies
- OSE Streams





OXY, BRAVO DOME 1932 051G LEG 10 (3/8/23)







OXY, BRAVO DOME 1932 051G LEG 10 (3/8/23)





OXY, BRAVO DOME 1932 051G LEG 10 (3/8/23)







OXY, BRAVO DOME 1932 051G LEG 10 (3/8/23)







OXY, BRAVO DOME 1932 051G LEG 10 (3/8/23)





OXY, BRAVO DOME 1932 051G LEG 10 (3/8/23)





OXY, BRAVO DOME 1932 051G LEG 10 (3/8/23)





OXY, BRAVO DOME 1932 051G LEG 10 (3/8/23)



OXY, BRAVO DOME 1932 051G LEG 10 (3/8/23)





OXY, BRAVO DOME 1932 051G LEG 10 (3/8/23)





OXY, BRAVO DOME 1932 051G LEG 10 (3/8/23)



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OXY, BRAVO DOME 1932 051G LEG 10 (3/8/23)





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OXY, BRAVO DOME 1932 051G LEG 10 (3/8/23)





OXY, BRAVO DOME 1932 051G LEG 10 (3/8/23)



OXY, BRAVO DOME 1932 051G LEG 10 (3/8/23)





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

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November 22, 2024

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BRAVO DOME 1932 051 LEG 10 (3/8/23)

Enclosed are the results of analyses for samples received by the laboratory on 10/17/24 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



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

**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BOTTOM SAMPLE 1 @ 3'	H246379-01	Soil	14-Oct-24 13:22	17-Oct-24 14:15
BOTTOM SAMPLE 2 @ 3'	H246379-02	Soil	14-Oct-24 13:36	17-Oct-24 14:15
BOTTOM SAMPLE 3 @ 3'	H246379-03	Soil	14-Oct-24 14:03	17-Oct-24 14:15
BOTTOM SAMPLE 4 @ 3'	H246379-04	Soil	14-Oct-24 14:12	17-Oct-24 14:15
BOTTOM SAMPLE 5 @ 3'	H246379-05	Soil	14-Oct-24 14:21	17-Oct-24 14:15
BOTTOM SAMPLE 6 @ 3'	H246379-06	Soil	14-Oct-24 14:33	17-Oct-24 14:15
BOTTOM SAMPLE 7 @ 3'	H246379-07	Soil	14-Oct-24 14:42	17-Oct-24 14:15
BOTTOM SAMPLE 8 @ 3'	H246379-08	Soil	14-Oct-24 14:50	17-Oct-24 14:15
BOTTOM SAMPLE 9 @ 3'	H246379-09	Soil	14-Oct-24 15:00	17-Oct-24 14:15
BOTTOM SAMPLE 10 @ 3'	H246379-10	Soil	14-Oct-24 15:10	17-Oct-24 14:15
BOTTOM SAMPLE 11 @ 3'	H246379-11	Soil	14-Oct-24 15:10	17-Oct-24 14:15
BOTTOM SAMPLE 12 @ 3'	H246379-12	Soil	14-Oct-24 15:17	17-Oct-24 14:15
BOTTOM SAMPLE 13 @ 3'	H246379-13	Soil	14-Oct-24 15:31	17-Oct-24 14:15
BOTTOM SAMPLE 14 @ 3'	H246379-14	Soil	14-Oct-24 15:43	17-Oct-24 14:15
BOTTOM SAMPLE 15 @ 3'	H246379-15	Soil	14-Oct-24 15:56	17-Oct-24 14:15
BOTTOM SAMPLE 16 @ 3'	H246379-16	Soil	14-Oct-24 16:08	17-Oct-24 14:15
BOTTOM SAMPLE 17 @ 3'	H246379-17	Soil	14-Oct-24 16:18	17-Oct-24 14:15
BOTTOM SAMPLE 18 @ 3'	H246379-18	Soil	14-Oct-24 16:30	17-Oct-24 14:15
BOTTOM SAMPLE 19 @ 3'	H246379-19	Soil	15-Oct-24 08:45	17-Oct-24 14:15
BOTTOM SAMPLE 20 @ 3'	H246379-20	Soil	15-Oct-24 08:57	17-Oct-24 14:15
BOTTOM SAMPLE 21 @ 3'	H246379-21	Soil	15-Oct-24 09:16	17-Oct-24 14:15
BOTTOM SAMPLE 22 @ 3'	H246379-22	Soil	15-Oct-24 09:35	17-Oct-24 14:15
BOTTOM SAMPLE 23 @ 3'	H246379-23	Soil	15-Oct-24 09:49	17-Oct-24 14:15
BOTTOM SAMPLE 24 @ 3'	H246379-24	Soil	15-Oct-24 10:07	17-Oct-24 14:15
BOTTOM SAMPLE 25 @ 3'	H246379-25	Soil	15-Oct-24 10:21	17-Oct-24 14:15
BOTTOM SAMPLE 26 @ 3'	H246379-26	Soil	15-Oct-24 10:35	17-Oct-24 14:15
BOTTOM SAMPLE 27 @ 3'	H246379-27	Soil	15-Oct-24 10:50	17-Oct-24 14:15

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 or any other cause whatsoever 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 damage 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 claim 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.

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

BOTTOM SAMPLE 28 @ 3'	H246379-28	Soil	15-Oct-24 11:07	17-Oct-24 14:15
BOTTOM SAMPLE 29 @ 3'	H246379-29	Soil	15-Oct-24 11:14	17-Oct-24 14:15
BOTTOM SAMPLE 30 @ 3'	H246379-30	Soil	15-Oct-24 11:32	17-Oct-24 14:15
BOTTOM SAMPLE 31 @ 3'	H246379-31	Soil	15-Oct-24 11:48	17-Oct-24 14:15
BOTTOM SAMPLE 32 @ 3'	H246379-32	Soil	15-Oct-24 12:05	17-Oct-24 14:15
BOTTOM SAMPLE 33 @ 3'	H246379-33	Soil	15-Oct-24 12:45	17-Oct-24 14:15
BOTTOM SAMPLE 34 @ 3'	H246379-34	Soil	15-Oct-24 13:03	17-Oct-24 14:15
BOTTOM SAMPLE 35 @ 3'	H246379-35	Soil	15-Oct-24 13:17	17-Oct-24 14:15
BOTTOM SAMPLE 36 @ 3'	H246379-36	Soil	15-Oct-24 13:30	17-Oct-24 14:15
BOTTOM SAMPLE 37 @ 3'	H246379-37	Soil	15-Oct-24 13:39	17-Oct-24 14:15
BOTTOM SAMPLE 38 @ 3'	H246379-38	Soil	15-Oct-24 13:50	17-Oct-24 14:15
BOTTOM SAMPLE 39 @ 3'	H246379-39	Soil	15-Oct-24 14:03	17-Oct-24 14:15
BOTTOM SAMPLE 40 @ 3'	H246379-40	Soil	15-Oct-24 14:14	17-Oct-24 14:15
SW 1	H246379-41	Soil	15-Oct-24 14:31	17-Oct-24 14:15
SW 2	H246379-42	Soil	15-Oct-24 14:44	17-Oct-24 14:15
SW 3	H246379-43	Soil	15-Oct-24 14:57	17-Oct-24 14:15
SW 4	H246379-44	Soil	15-Oct-24 15:12	17-Oct-24 14:15
SW 5	H246379-45	Soil	15-Oct-24 15:24	17-Oct-24 14:15
SW 6	H246379-46	Soil	15-Oct-24 15:37	17-Oct-24 14:15
SW 7	H246379-47	Soil	15-Oct-24 15:49	17-Oct-24 14:15
SW 8	H246379-48	Soil	15-Oct-24 16:52	17-Oct-24 14:15
SW 9	H246379-49	Soil	16-Oct-24 09:10	17-Oct-24 14:15
SW 10	H246379-50	Soil	16-Oct-24 09:23	17-Oct-24 14:15
SW 11	H246379-51	Soil	16-Oct-24 09:40	17-Oct-24 14:15
SW 12	H246379-52	Soil	16-Oct-24 09:53	17-Oct-24 14:15

11/22/24 - Client revised the project date (see COC). This is the revised report and will replace the one sent on 10/24/24.

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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 1 @ 3'**  
**H246379-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	4102132	KV	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101822	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		105 %		71.5-134	4101822	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane		90.2 %		48.2-134	4101745	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane		73.7 %		49.1-148	4101745	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 2 @ 3'****H246379-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	4102132	KV	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101822	JH	19-Oct-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		71.5-134	4101822	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.1 %		48.2-134	4101745	MS	21-Oct-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			73.0 %		49.1-148	4101745	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 3 @ 3'****H246379-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	4102132	KV	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101822	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	104 %	71.5-134	4101822	JH	19-Oct-24	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B

Surrogate: 1-Chlorooctane	89.1 %	48.2-134	4101745	MS	21-Oct-24	8015B
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Surrogate: 1-Chlorooctadecane	72.9 %	49.1-148	4101745	MS	21-Oct-24	8015B
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 4 @ 3'****H246379-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	4102132	KV	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101822	JH	19-Oct-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		71.5-134	4101822	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.9 %		48.2-134	4101745	MS	21-Oct-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			79.4 %		49.1-148	4101745	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 5 @ 3'****H246379-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	4102132	KV	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101822	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	105 %	71.5-134	4101822	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane	92.4 %	48.2-134	4101745	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane	76.3 %	49.1-148	4101745	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 6 @ 3'****H246379-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	4102132	KV	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101822	JH	19-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101822	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	71.5-134	4101822	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane	96.4 %	48.2-134	4101745	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane	80.7 %	49.1-148	4101745	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 7 @ 3'****H246379-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	4102132	KV	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101823	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101823	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101823	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101823	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101823	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134 4101823 JH 19-Oct-24 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane 88.0 % 48.2-134 4101745 MS 21-Oct-24 8015B

Surrogate: 1-Chlorooctadecane 72.6 % 49.1-148 4101745 MS 21-Oct-24 8015B

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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 8 @ 3'****H246379-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	4102132	KV	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101823	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101823	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101823	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101823	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101823	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %		71.5-134	4101823	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane			87.7 %		48.2-134	4101745	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			71.8 %		49.1-148	4101745	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 9 @ 3'****H246379-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	4102132	KV	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101823	JH	19-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101823	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101823	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101823	JH	19-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101823	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	104 %	71.5-134	4101823	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane	86.1 %	48.2-134	4101745	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane	69.3 %	49.1-148	4101745	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 10 @ 3'****H246379-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	4102132	KV	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101823	JH	20-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	104 %	71.5-134	4101823	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane	88.5 %	48.2-134	4101745	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane	74.0 %	49.1-148	4101745	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 11 @ 3'****H246379-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	4102132	KV	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101823	JH	20-Oct-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		71.5-134	4101823	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.9 %		48.2-134	4101745	MS	21-Oct-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			77.0 %		49.1-148	4101745	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 12 @ 3'****H246379-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101823	JH	20-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	105 %	71.5-134	4101823	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane	91.4 %	48.2-134	4101745	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane	76.2 %	49.1-148	4101745	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 13 @ 3'****H246379-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101823	JH	20-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	105 %	71.5-134	4101823	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane	93.9 %	48.2-134	4101745	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane	81.0 %	49.1-148	4101745	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 14 @ 3'****H246379-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101823	JH	20-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	71.5-134	4101823	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane	94.8 %	48.2-134	4101745	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane	81.9 %	49.1-148	4101745	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 15 @ 3'****H246379-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101823	JH	20-Oct-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %		71.5-134	4101823	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.1 %		48.2-134	4101745	MS	21-Oct-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			76.8 %		49.1-148	4101745	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 16 @ 3'****H246379-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101823	JH	20-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		4101823	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane			97.1 %	48.2-134		4101745	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			81.9 %	49.1-148		4101745	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 17 @ 3'****H246379-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101823	JH	20-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	71.5-134	4101823	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101745	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane	91.8 %	48.2-134	4101745	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane	78.2 %	49.1-148	4101745	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 18 @ 3'****H246379-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101823	JH	20-Oct-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>		103 %		71.5-134	4101823	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>		94.3 %		48.2-134	4101746	MS	21-Oct-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>		91.7 %		49.1-148	4101746	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 19 @ 3'****H246379-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101823	JH	20-Oct-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		71.5-134	4101823	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			102 %		48.2-134	4101746	MS	21-Oct-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %		49.1-148	4101746	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 20 @ 3'****H246379-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101823	JH	20-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		4101823	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane			107 %	48.2-134		4101746	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			108 %	49.1-148		4101746	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 21 @ 3'****H246379-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101823	JH	20-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		4101823	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane			104 %	48.2-134		4101746	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			105 %	49.1-148		4101746	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 22 @ 3'****H246379-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101823	JH	20-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	104 %	71.5-134	4101823	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane	95.1 %	48.2-134	4101746	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane	96.1 %	49.1-148	4101746	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 23 @ 3'****H246379-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101823	JH	20-Oct-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %		71.5-134	4101823	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			106 %		48.2-134	4101746	MS	21-Oct-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			108 %		49.1-148	4101746	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 24 @ 3'****H246379-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101823	JH	20-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		4101823	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane			107 %	48.2-134		4101746	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			109 %	49.1-148		4101746	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 25 @ 3'****H246379-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101823	JH	20-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		71.5-134	4101823	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane			99.3 %		48.2-134	4101746	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			100 %		49.1-148	4101746	MS	21-Oct-24	8015B	
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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 26 @ 3'****H246379-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101823	JH	20-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101823	JH	20-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	104 %	71.5-134	4101823	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane	103 %	48.2-134	4101746	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane	103 %	49.1-148	4101746	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 27 @ 3'****H246379-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 4101824 JH 19-Oct-24 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane 107 % 48.2-134 4101746 MS 21-Oct-24 8015B

Surrogate: 1-Chlorooctadecane 108 % 49.1-148 4101746 MS 21-Oct-24 8015B

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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 28 @ 3'****H246379-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %		71.5-134	4101824	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.9 %		48.2-134	4101746	MS	21-Oct-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			95.4 %		49.1-148	4101746	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 29 @ 3'****H246379-29 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		71.5-134	4101824	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane			88.1 %		48.2-134	4101746	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			88.6 %		49.1-148	4101746	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 30 @ 3'****H246379-30 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5-134		4101824	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane			104 %	48.2-134		4101746	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			105 %	49.1-148		4101746	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 31 @ 3'****H246379-31 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	4102124	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		71.5-134	4101824	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane			109 %		48.2-134	4101746	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			110 %		49.1-148	4101746	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 32 @ 3'****H246379-32 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		4101824	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane			102 %	48.2-134		4101746	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			103 %	49.1-148		4101746	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 33 @ 3'****H246379-33 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	106 %	71.5-134	4101824	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane	102 %	48.2-134	4101746	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane	103 %	49.1-148	4101746	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 34 @ 3'****H246379-34 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	108 %	71.5-134	4101824	JH	19-Oct-24	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B

Surrogate: 1-Chlorooctane	108 %	48.2-134	4101746	MS	21-Oct-24	8015B
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Surrogate: 1-Chlorooctadecane	110 %	49.1-148	4101746	MS	21-Oct-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 35 @ 3'****H246379-35 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5-134		4101824	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane			109 %	48.2-134		4101746	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			111 %	49.1-148		4101746	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 36 @ 3'****H246379-36 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		71.5-134	4101824	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane			102 %		48.2-134	4101746	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			103 %		49.1-148	4101746	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 37 @ 3'****H246379-37 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	106 %	71.5-134	4101824	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101746	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane	111 %	48.2-134	4101746	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane	113 %	49.1-148	4101746	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 38 @ 3'****H246379-38 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		71.5-134	4101824	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.0 %		48.2-134	4101747	MS	21-Oct-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			82.7 %		49.1-148	4101747	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 39 @ 3'****H246379-39 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	106 %	71.5-134	4101824	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane	83.3 %	48.2-134	4101747	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane	84.4 %	49.1-148	4101747	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**BOTTOM SAMPLE 40 @ 3'****H246379-40 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		71.5-134	4101824	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			81.8 %		48.2-134	4101747	MS	21-Oct-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			82.3 %		49.1-148	4101747	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**SW 1****H246379-41 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %		71.5-134	4101824	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane			73.7 %		48.2-134	4101747	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			74.1 %		49.1-148	4101747	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**SW 2****H246379-42 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		4101824	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane			73.1 %	48.2-134		4101747	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			74.9 %	49.1-148		4101747	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**SW 3****H246379-43 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		71.5-134	4101824	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane			80.4 %		48.2-134	4101747	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			81.6 %		49.1-148	4101747	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**SW 4****H246379-44 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5-134		4101824	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101747	MS	23-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101747	MS	23-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101747	MS	23-Oct-24	8015B	

Surrogate: 1-Chlorooctane			117 %	48.2-134		4101747	MS	23-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			104 %	49.1-148		4101747	MS	23-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**SW 5**  
**H246379-45 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	107 %	71.5-134	4101824	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane	74.5 %	48.2-134	4101747	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane	76.8 %	49.1-148	4101747	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**SW 6**  
**H246379-46 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B
Toluene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101824	JH	19-Oct-24	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	4101824	JH	19-Oct-24	8021B
Total BTEX	<0.300	0.300	mg/kg	50	4101824	JH	19-Oct-24	8021B

Surrogate: 4-Bromofluorobenzene (PID)	108 %	71.5-134	4101824	JH	19-Oct-24	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B

Surrogate: 1-Chlorooctane	70.1 %	48.2-134	4101747	MS	21-Oct-24	8015B
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Surrogate: 1-Chlorooctadecane	72.3 %	49.1-148	4101747	MS	21-Oct-24	8015B
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**SW 7****H246379-47 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4101825	JH	19-Oct-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4101825	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4101825	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4101825	JH	19-Oct-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4101825	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	109 %	71.5-134	4101825	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane	68.7 %	48.2-134	4101747	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane	71.8 %	49.1-148	4101747	MS	21-Oct-24	8015B	
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Cardinal Laboratories

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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**SW 8****H246379-48 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101825	JH	19-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101825	JH	19-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101825	JH	19-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101825	JH	19-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101825	JH	19-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %		71.5-134	4101825	JH	19-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane			80.4 %		48.2-134	4101747	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			79.6 %		49.1-148	4101747	MS	21-Oct-24	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**SW 9****H246379-49 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101825	JH	20-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101825	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101825	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101825	JH	20-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101825	JH	20-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %		71.5-134	4101825	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	

Surrogate: 1-Chlorooctane			82.8 %		48.2-134	4101747	MS	21-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			80.7 %		49.1-148	4101747	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**SW 10**  
**H246379-50 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101825	JH	20-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101825	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101825	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101825	JH	20-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101825	JH	20-Oct-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %	71.5-134		4101825	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.1 %	48.2-134		4101747	MS	21-Oct-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.5 %	49.1-148		4101747	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**SW 11**  
**H246379-51 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	4102206	KV	22-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101825	JH	20-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101825	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101825	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101825	JH	20-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101825	JH	20-Oct-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		71.5-134	4101825	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.7 %		48.2-134	4101747	MS	21-Oct-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			92.6 %		49.1-148	4101747	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**SW 12**  
**H246379-52 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	4102139	HM	21-Oct-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4101825	JH	20-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4101825	JH	20-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4101825	JH	20-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4101825	JH	20-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4101825	JH	20-Oct-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		71.5-134	4101825	JH	20-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101747	MS	21-Oct-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.6 %		48.2-134	4101747	MS	21-Oct-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.6 %		49.1-148	4101747	MS	21-Oct-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4102124 - 1:4 DI Water****Blank (4102124-BLK1)**

Prepared &amp; Analyzed: 21-Oct-24

Chloride	ND	16.0	mg/kg							
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**LCS (4102124-BS1)**

Prepared &amp; Analyzed: 21-Oct-24

Chloride	400	16.0	mg/kg	400		100	80-120			
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**LCS Dup (4102124-BSD1)**

Prepared &amp; Analyzed: 21-Oct-24

Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
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**Batch 4102132 - 1:4 DI Water****Blank (4102132-BLK1)**

Prepared &amp; Analyzed: 21-Oct-24

Chloride	ND	16.0	mg/kg							
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**LCS (4102132-BS1)**

Prepared &amp; Analyzed: 21-Oct-24

Chloride	416	16.0	mg/kg	400		104	80-120			
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**LCS Dup (4102132-BSD1)**

Prepared &amp; Analyzed: 21-Oct-24

Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
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**Batch 4102139 - 1:4 DI Water****Blank (4102139-BLK1)**

Prepared &amp; Analyzed: 21-Oct-24

Chloride	ND	16.0	mg/kg							
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**LCS (4102139-BS1)**

Prepared &amp; Analyzed: 21-Oct-24

Chloride	416	16.0	mg/kg	400		104	80-120			
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4102139 - 1:4 DI Water****LCS Dup (4102139-BSD1)**

Prepared &amp; Analyzed: 21-Oct-24

Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
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**Batch 4102206 - 1:4 DI Water****Blank (4102206-BLK1)**

Prepared &amp; Analyzed: 22-Oct-24

Chloride	ND	16.0	mg/kg							
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**LCS (4102206-BS1)**

Prepared &amp; Analyzed: 22-Oct-24

Chloride	432	16.0	mg/kg	400		108	80-120			
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**LCS Dup (4102206-BSD1)**

Prepared &amp; Analyzed: 22-Oct-24

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4101822 - Volatiles****Blank (4101822-BLK1)**

Prepared: 18-Oct-24 Analyzed: 19-Oct-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0526		mg/kg	0.0500		105	71.5-134			

**LCS (4101822-BS1)**

Prepared: 18-Oct-24 Analyzed: 19-Oct-24

Benzene	2.22	0.050	mg/kg	2.00		111	82.8-130			
Toluene	2.15	0.050	mg/kg	2.00		107	86-128			
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	85.9-128			
m,p-Xylene	4.34	0.100	mg/kg	4.00		108	89-129			
o-Xylene	2.13	0.050	mg/kg	2.00		107	86.1-125			
Total Xylenes	6.47	0.150	mg/kg	6.00		108	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			

**LCS Dup (4101822-BSD1)**

Prepared: 18-Oct-24 Analyzed: 19-Oct-24

Benzene	2.18	0.050	mg/kg	2.00		109	82.8-130	1.95	15.8	
Toluene	2.11	0.050	mg/kg	2.00		106	86-128	1.51	15.9	
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	85.9-128	0.823	16	
m,p-Xylene	4.28	0.100	mg/kg	4.00		107	89-129	1.29	16.2	
o-Xylene	2.11	0.050	mg/kg	2.00		105	86.1-125	1.19	16.7	
Total Xylenes	6.39	0.150	mg/kg	6.00		106	88.2-128	1.26	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0519		mg/kg	0.0500		104	71.5-134			

**Batch 4101823 - Volatiles****Blank (4101823-BLK1)**

Prepared: 18-Oct-24 Analyzed: 19-Oct-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4101823 - Volatiles****Blank (4101823-BLK1)**

Prepared: 18-Oct-24 Analyzed: 19-Oct-24

Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500		104 71.5-134			

**LCS (4101823-BS1)**

Prepared: 18-Oct-24 Analyzed: 19-Oct-24

Benzene	2.21	0.050	mg/kg	2.00		110 82.8-130			
Toluene	2.14	0.050	mg/kg	2.00		107 86-128			
Ethylbenzene	2.15	0.050	mg/kg	2.00		108 85.9-128			
m,p-Xylene	4.31	0.100	mg/kg	4.00		108 89-129			
o-Xylene	2.12	0.050	mg/kg	2.00		106 86.1-125			
Total Xylenes	6.42	0.150	mg/kg	6.00		107 88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0523		mg/kg	0.0500		105 71.5-134			

**LCS Dup (4101823-BS1)**

Prepared: 18-Oct-24 Analyzed: 19-Oct-24

Benzene	2.06	0.050	mg/kg	2.00		103 82.8-130	7.02	15.8	
Toluene	2.01	0.050	mg/kg	2.00		101 86-128	6.07	15.9	
Ethylbenzene	2.03	0.050	mg/kg	2.00		102 85.9-128	5.74	16	
m,p-Xylene	4.06	0.100	mg/kg	4.00		102 89-129	5.87	16.2	
o-Xylene	2.00	0.050	mg/kg	2.00		100 86.1-125	5.61	16.7	
Total Xylenes	6.06	0.150	mg/kg	6.00		101 88.2-128	5.78	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0528		mg/kg	0.0500		106 71.5-134			

**Batch 4101824 - Volatiles****Blank (4101824-BLK1)**

Prepared: 18-Oct-24 Analyzed: 19-Oct-24

Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108 71.5-134			

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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4101824 - Volatiles****LCS (4101824-BS1)**

Prepared: 18-Oct-24 Analyzed: 19-Oct-24

Benzene	2.05	0.050	mg/kg	2.00		102	82.8-130		
Toluene	2.10	0.050	mg/kg	2.00		105	86-128		
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	85.9-128		
m,p-Xylene	4.27	0.100	mg/kg	4.00		107	89-129		
o-Xylene	2.07	0.050	mg/kg	2.00		104	86.1-125		
Total Xylenes	6.34	0.150	mg/kg	6.00		106	88.2-128		

Surrogate: 4-Bromofluorobenzene (PID) 0.0526 mg/kg 0.0500 105 71.5-134

**LCS Dup (4101824-BSD1)**

Prepared: 18-Oct-24 Analyzed: 19-Oct-24

Benzene	2.07	0.050	mg/kg	2.00		104	82.8-130	1.17	15.8
Toluene	2.13	0.050	mg/kg	2.00		107	86-128	1.69	15.9
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	85.9-128	0.965	16
m,p-Xylene	4.33	0.100	mg/kg	4.00		108	89-129	1.45	16.2
o-Xylene	2.17	0.050	mg/kg	2.00		108	86.1-125	4.30	16.7
Total Xylenes	6.50	0.150	mg/kg	6.00		108	88.2-128	2.39	16.3

Surrogate: 4-Bromofluorobenzene (PID) 0.0537 mg/kg 0.0500 107 71.5-134

**Batch 4101825 - Volatiles****Blank (4101825-BLK1)**

Prepared: 18-Oct-24 Analyzed: 19-Oct-24

Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						

Surrogate: 4-Bromofluorobenzene (PID) 0.0536 mg/kg 0.0500 107 71.5-134

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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4101825 - Volatiles****LCS (4101825-BS1)**

Prepared: 18-Oct-24 Analyzed: 19-Oct-24

Benzene	2.02	0.050	mg/kg	2.00		101	82.8-130		
Toluene	2.09	0.050	mg/kg	2.00		105	86-128		
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128		
m,p-Xylene	4.27	0.100	mg/kg	4.00		107	89-129		
o-Xylene	2.08	0.050	mg/kg	2.00		104	86.1-125		
Total Xylenes	6.35	0.150	mg/kg	6.00		106	88.2-128		
Surrogate: 4-Bromofluorobenzene (PID)	0.0531		mg/kg	0.0500		106	71.5-134		

**LCS Dup (4101825-BSD1)**

Prepared: 18-Oct-24 Analyzed: 19-Oct-24

Benzene	2.05	0.050	mg/kg	2.00		103	82.8-130	1.60	15.8
Toluene	2.13	0.050	mg/kg	2.00		107	86-128	1.90	15.9
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	85.9-128	1.77	16
m,p-Xylene	4.35	0.100	mg/kg	4.00		109	89-129	1.85	16.2
o-Xylene	2.11	0.050	mg/kg	2.00		106	86.1-125	1.42	16.7
Total Xylenes	6.46	0.150	mg/kg	6.00		108	88.2-128	1.71	16.3
Surrogate: 4-Bromofluorobenzene (PID)	0.0534		mg/kg	0.0500		107	71.5-134		

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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4101745 - General Prep - Organics****Blank (4101745-BLK1)**

Prepared: 17-Oct-24 Analyzed: 21-Oct-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	43.1		mg/kg	50.0		86.2	48.2-134		
Surrogate: 1-Chlorooctadecane	34.8		mg/kg	50.0		69.7	49.1-148		

**LCS (4101745-BS1)**

Prepared: 17-Oct-24 Analyzed: 21-Oct-24

GRO C6-C10	195	10.0	mg/kg	200		97.3	66.4-123		
DRO >C10-C28	175	10.0	mg/kg	200		87.3	66.5-118		
Total TPH C6-C28	369	10.0	mg/kg	400		92.3	77.6-123		
Surrogate: 1-Chlorooctane	47.7		mg/kg	50.0		95.4	48.2-134		
Surrogate: 1-Chlorooctadecane	37.5		mg/kg	50.0		75.0	49.1-148		

**LCS Dup (4101745-BS1)**

Prepared: 17-Oct-24 Analyzed: 21-Oct-24

GRO C6-C10	198	10.0	mg/kg	200		99.0	66.4-123	1.71	17.7
DRO >C10-C28	188	10.0	mg/kg	200		93.9	66.5-118	7.26	21
Total TPH C6-C28	386	10.0	mg/kg	400		96.5	77.6-123	4.37	18.5
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0		94.2	48.2-134		
Surrogate: 1-Chlorooctadecane	37.5		mg/kg	50.0		75.1	49.1-148		

**Batch 4101746 - General Prep - Organics****Blank (4101746-BLK1)**

Prepared: 17-Oct-24 Analyzed: 21-Oct-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	58.4		mg/kg	50.0		117	48.2-134		
Surrogate: 1-Chlorooctadecane	60.4		mg/kg	50.0		121	49.1-148		

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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4101746 - General Prep - Organics****LCS (4101746-BS1)**

Prepared: 17-Oct-24 Analyzed: 21-Oct-24

GRO C6-C10	224	10.0	mg/kg	200		112	66.4-123		
DRO >C10-C28	207	10.0	mg/kg	200		103	66.5-118		
Total TPH C6-C28	431	10.0	mg/kg	400		108	77.6-123		
Surrogate: 1-Chlorooctane	63.5		mg/kg	50.0		127	48.2-134		
Surrogate: 1-Chlorooctadecane	64.0		mg/kg	50.0		128	49.1-148		

**LCS Dup (4101746-BS1)**

Prepared: 17-Oct-24 Analyzed: 21-Oct-24

GRO C6-C10	195	10.0	mg/kg	200		97.4	66.4-123	14.0	17.7
DRO >C10-C28	177	10.0	mg/kg	200		88.3	66.5-118	15.8	21
Total TPH C6-C28	371	10.0	mg/kg	400		92.8	77.6-123	14.8	18.5
Surrogate: 1-Chlorooctane	62.0		mg/kg	50.0		124	48.2-134		
Surrogate: 1-Chlorooctadecane	62.5		mg/kg	50.0		125	49.1-148		

**Batch 4101747 - General Prep - Organics****Blank (4101747-BLK1)**

Prepared: 17-Oct-24 Analyzed: 21-Oct-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	53.6		mg/kg	50.0		107	48.2-134		
Surrogate: 1-Chlorooctadecane	53.8		mg/kg	50.0		108	49.1-148		

**LCS (4101747-BS1)**

Prepared: 17-Oct-24 Analyzed: 21-Oct-24

GRO C6-C10	238	10.0	mg/kg	200		119	66.4-123		
DRO >C10-C28	215	10.0	mg/kg	200		108	66.5-118		
Total TPH C6-C28	453	10.0	mg/kg	400		113	77.6-123		
Surrogate: 1-Chlorooctane	59.5		mg/kg	50.0		119	48.2-134		
Surrogate: 1-Chlorooctadecane	56.5		mg/kg	50.0		113	49.1-148		

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**Analytical Results For:**

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

Project: BRAVO DOME 1932 051 LEG 10 (3,  
Project Number: NOT GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
22-Nov-24 18:39

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4101747 - General Prep - Organics****LCS Dup (4101747-BSD1)**

Prepared: 17-Oct-24 Analyzed: 21-Oct-24

GRO C6-C10	207	10.0	mg/kg	200		103	66.4-123	14.0	17.7	
DRO >C10-C28	182	10.0	mg/kg	200		90.8	66.5-118	16.9	21	
Total TPH C6-C28	388	10.0	mg/kg	400		97.0	77.6-123	15.3	18.5	
Surrogate: 1-Chlorooctane	57.8		mg/kg	50.0		116	48.2-134			
Surrogate: 1-Chlorooctadecane	55.9		mg/kg	50.0		112	49.1-148			

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Notes and Definitions

- 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

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

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

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

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																				
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Chloride BTEX TPHEX </div> </div>																				
Address: P.O. Box 805				Company: Oxy																								
City: Hobbs State: NM Zip: 88241				Attn:																								
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																								
Project #: Project Owner: Oxy				City:																								
Project Name: BRAVO DOME 1932 051 LEG 10 (0-17-24)				State: Zip:																								
Project Location: New Mexico (3/8/23) *				Phone #:																								
Sampler Name: SIMON RENDON				Fax #:																								
FOR LAB USE ONLY																												
Lab I.D.	Sample I.D.	GIRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME														
11240379	BOTTOM SAMPLE 1@3'	6	1			✓					✓		10/14/24	1:22PM	✓	✓	✓											
	BOTTOM SAMPLE 2@3'												10/14/24	1:36PM	✓	✓	✓											
	BOTTOM SAMPLE 3@3'												10/14/24	2:03PM	✓	✓	✓											
	BOTTOM SAMPLE 4@3'												10/14/24	2:12PM	✓	✓	✓											
	BOTTOM SMAPLE 5@3'												10/14/24	2:21PM	✓	✓	✓											
	BOTTOM SAMPLE 6@3'												10/14/24	2:33PM	✓	✓	✓											
	BOTTOM SAMPLE 7@3'												10/14/24	2:42PM	✓	✓	✓											
	BOTTOM SAMPLE 8@3'												10/14/24	2:50PM	✓	✓	✓											
	BOTTOM SAMPLE 9@3'												10/14/24	3:00PM	✓	✓	✓											
	BOTTOM SAMPLE 10@3'												10/14/24	3:10PM	✓	✓	✓											

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Relinquished By:	Date: 10/17/24	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Simon Rend	Time:	Jose Cortinas	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 10/17/24	Received By:	REMARKS:	
Cortinas Jose	Time: 1415	ADAMAS	* Customer requested Name/Date Change. to: 11/22/24	
Delivered By: (Circle One)	-530/6002	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	-592/#140	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	AP	

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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By:		Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Sandra Rangel		10/17/24	Jose Cortinas	Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:		
Jose Cortinas		10/17/24	adamas	* Customer requested name/date changes. 10.11/22/24		
Delivered By: (Circle One)		Sample Condition	CHECKED BY:			
-S.32/COVZ		Cool Intact	(Initials)			
Sampler - UPS - Bus - Other:		<input type="checkbox"/> Yes <input type="checkbox"/> No	AD			
-S.92/#140		<input type="checkbox"/> Yes <input type="checkbox"/> No				

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

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPHEXT</div> </div>											
Address: P.O. Box 805				Company: Oxy															
City: Hobbs State: NM Zip: 88241				Attn:															
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:															
Project #: Project Owner: Oxy				City:															
Project Name: BRAVO DOME 1932 051 LEG 10 (9-17-24)				State: Zip:															
Project Location: New Mexico (3/8/23) *				Phone #:															
Sampler Name: SIMON RENDON				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME					
H240379	BOTTOM SAMPLE 31@3'	Q	1			✓					✓		10/15/24	11:48AM	✓	✓			
32	BOTTOM SAMPLE 32@3'												10/15/24	12:05PM	✓	✓			
33	BOTTOM SAMPLE 33@3'												10/15/24	12:45PM	✓	✓			
34	BOTTOM SAMPLE 34@3'												10/15/24	1:03PM	✓	✓			
35	BOTTOM SMAPLE 35@3'												10/15/24	1:17PM	✓	✓			
36	BOTTOM SAMPLE 36@3'												10/15/24	1:30PM	✓	✓			
37	BOTTOM SAMPLE 37@3'												10/15/24	1:39PM	✓	✓			
38	BOTTOM SAMPLE 38@3'												10/15/24	1:50PM	✓	✓			
39	BOTTOM SAMPLE 39@3'												10/15/24	2:03PM	✓	✓			
40	BOTTOM SAMPLE 40@3'												10/15/24	2:14PM	✓	✓			

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Relinquished By:	Date: 10/17/24	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Simon Rendon	Time: 10/17/24	Jose Cortina	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 10/17/24	Received By:	REMARKS:	
Jose Cortina	Time: 10/17/24	apenas	* Customer requested name/date changes. 10-11/22/24	
Delivered By: (Circle One)	-58°C / 10.0°C	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	-59°C / #140	Cool Intact	BP	
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

QUESTIONS

Action 414698

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 414698
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2308056133
Incident Name	NAPP2308056133 BRAVO DOME 1932 051G LEG 10 @ 30-021-20417
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-021-20417] BRAVO DOME CARBON DIOXIDE GAS UNIT #051

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BRAVO DOME 1932 051G LEG 10
Date Release Discovered	03/08/2023
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pipeline (Any)   Produced Water   Released: 17 BBL   Recovered: 0 BBL   Lost: 17 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.



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QUESTIONS, Page 2

Action 414698

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 414698
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 12/23/2024
--	---

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QUESTIONS, Page 3

Action 414698

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 414698
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	208
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	10
GRO+DRO (EPA SW-846 Method 8015M)	10
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0.5

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	09/20/2024
On what date will (or did) the final sampling or liner inspection occur	10/16/2024
On what date will (or was) the remediation complete(d)	11/04/2024
What is the estimated surface area (in square feet) that will be reclaimed	7863
What is the estimated volume (in cubic yards) that will be reclaimed	468
What is the estimated surface area (in square feet) that will be remediated	7863
What is the estimated volume (in cubic yards) that will be remediated	468

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.



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QUESTIONS, Page 4

Action 414698

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 414698
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
(Select all answers below that apply.)	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	GANDY MARLEY LANDFARM/LANDFILL [FEEM0112338393]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: <a href="mailto:wade_dittrich@oxy.com">wade_dittrich@oxy.com</a> Date: 12/23/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5  
  
Action 414698

QUESTIONS (continued)

Operator:  OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:  16696
	Action Number:  414698
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 414698

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 414698
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	391723
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/15/2024
What was the (estimated) number of samples that were to be gathered	52
What was the sampling surface area in square feet	7863

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	7863
What was the total volume (cubic yards) remediated	468
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	7863
What was the total volume (in cubic yards) reclaimed	468
Summarize any additional remediation activities not included by answers (above)	OXY excavated the spill area as depicted on the following site diagram. The entire leak area (GREEN shade on diagram) was excavated to a depth of 3' feet OXY collected bottom and sidewall confirmation samples every 200 square feet

*The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.*

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: <a href="mailto:wade_dittrich@oxy.com">wade_dittrich@oxy.com</a> Date: 12/23/2024
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Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

QUESTIONS, Page 7  
  
Action 414698

QUESTIONS (continued)

Operator:  OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:  16696
	Action Number:  414698
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 414698

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
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CONDITIONS

Created By	Condition	Condition Date
nvez	None	3/19/2025