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E-MAIL: cbrunson@bbcinternational.com

DELINEATION/REMEDIATION WORKPLAN

OXY – BRAVO DOME PLANT (Leak Date: 2/19/21)

Incident ID: NAPP2105639817

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NAPP2105639817.

The following information includes:

1. Appropriate completed and signed C-141 pages.
2. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
3. GPS information for sample points and sample methodology.
4. Depth to groundwater information (i.e., pdf of OSE search results, USGS search results).
5. Watercourse/features map within 1000 feet.
6. BLM Cave Karst map.
7. FEMA National Flood map.
8. Laboratory analysis results summary table and original laboratory analysis reports.
9. Potentially other pertinent information as necessary for site specific purposes.

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

OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1 (YELLOW shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP2 and SP3 (ORANGE shade on diagram) will be excavated to a depth of 1 foot.

OXY will collect bottom and sidewall confirmation samples every 200 square feet. The estimated amount of soil to be excavated is 137 cubic yards. The remediation will be completed within 90 days of approval.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate agency or private surface owner.
All excavated materials will be disposed of at an NMOCD-approved disposal facility.

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	NAPP2105639817
District RP	
Facility ID	
Application ID	

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

What is the shallowest depth to groundwater beneath the area affected by the release?	73 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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


Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NAPP2105639817
District RP	
Facility ID	
Application ID	

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

Printed Name: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 6-16-21
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NAPP2105639817
District RP	
Facility ID	
Application ID	

Remediation Plan


Remediation Plan Checklist: Each of the following items must be included in the plan.

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Wade Dittrich Title: Environmental CoordinatorSignature: Date: 6-16-21email: wade_dittrich@oxy.comTelephone: (575) 390-2828**OCD Only**Received by: Chad Hensley Date: 08/30/2021☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: Date: 08/30/2021

Oxy Bravo Dome Plant

Leak Date: 2/19/21
Union County, NM
Incident ID: NAPP2105639817

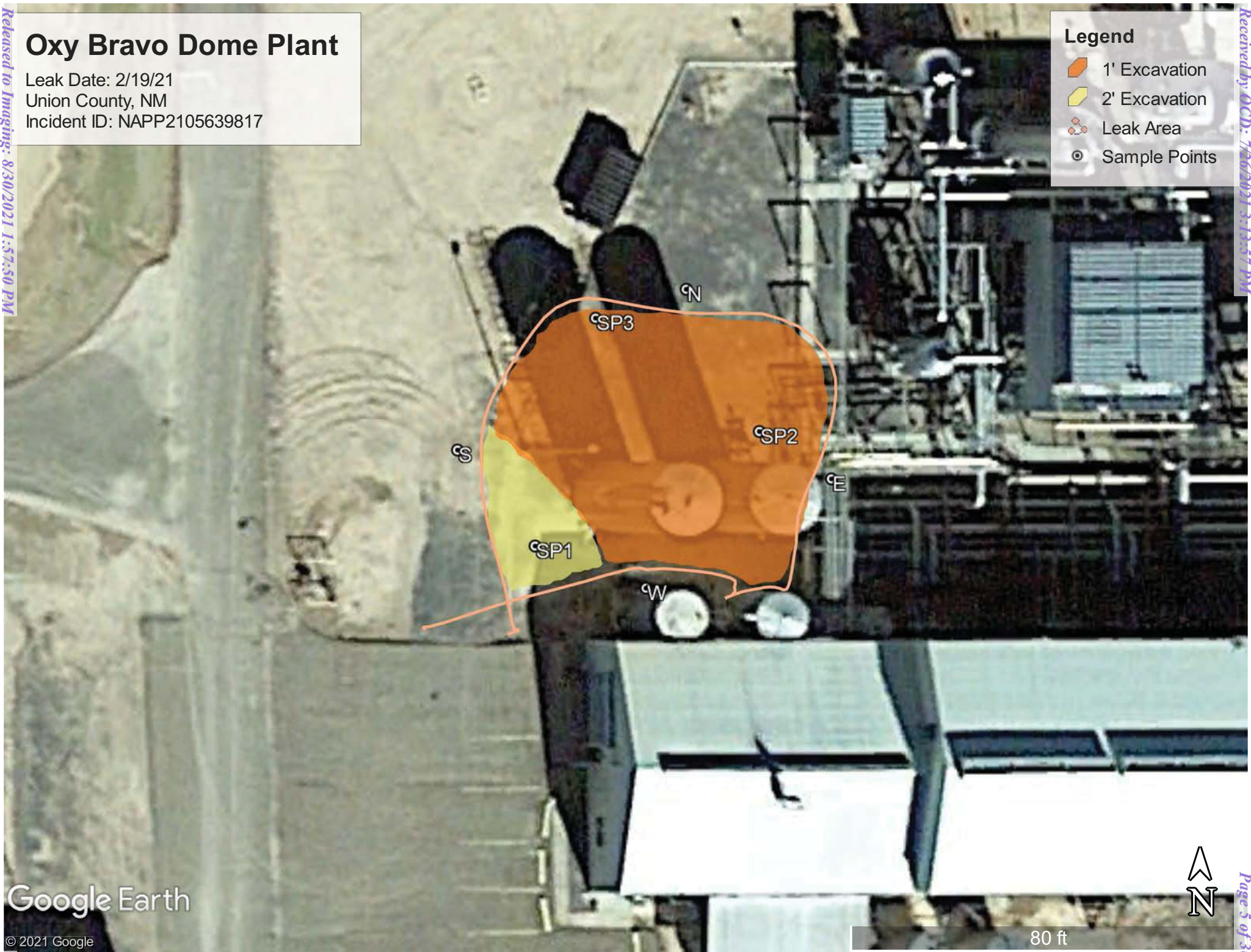
Legend

1' Excavation

2' Excavation

Leak Area

Sample Points



OXY SOUTH HOBBS RMT INJECTION HEADER BLDG 5, SAMPLE POINTS

SP1	N 32.687755°	W-103.180446°
SP2	N 32.687890°	W-103.180257°
SP3	N 32.687993°	W-103.180057°
SP4	N 32.688097°	W-103.179910°
SP5	N 32.688176°	W-103.179716°
NORTH	N 32.688021°	W-103.180158°
EAST	N 32.688095°	W-103.179668°
SOUTH	N 32.687810°	W-103.180147°
WEST	N 32.687820°	W-103.180492°

Laboratory Analytical Results Summary
Oxy, BRAVO DOME PLANT(2/19/21

		Sample ID	SP N @ SURFACE	SP E @ SURFACE	SP W @ SURFACE	SP S @ SURFACE
Analyte	Method	Date	5/6/21	5/6/21	5/6/21	5/6/21
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		16.0	112.0	16.0	64.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP 1 @ SURFACE	SP 1 @ 1'	SP 1 @ 2'	SP 1 @ 3'	SP 1 @ 4'
Analyte	Method	Date	5/6/21	5/6/21	5/6/21	5/6/21	5/6/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	N/A	N/A	N/A
Toluene	BTEX 8021B		<0.050	<0.050	N/A	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	N/A	N/A	N/A
Total Xylenes	BTEX 8021B		0.226	<0.150	N/A	N/A	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	N/A	N/A	N/A
Chloride	SM4500Cl-B		240.0	640.0	192	288	272
GRO	TPH 8015M		<50.0	<10.0	N/A	N/A	N/A
DRO	TPH 8015M		2960	<10.0	N/A	N/A	N/A
EXT DRO	TPH 8015M		8170	<10.0	N/A	N/A	N/A

		Sample ID	SP 2 @ SURFACE	SP 2 @ 1'	SP 2 @ 2'
Analyte	Method	Date	5/6/21	5/6/21	5/6/21
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	N/A
Toluene	BTEX 8021B		<0.050	<0.050	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	N/A
Total Xylenes	BTEX 8021B		0.185	<0.150	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	N/A
Chloride	SM4500Cl-B		288.0	80.0	48
GRO	TPH 8015M		<10.0	<10.0	N/A
DRO	TPH 8015M		823	<10.0	N/A
EXT DRO	TPH 8015M		2720	<10.0	N/A

		Sample ID	SP 3 @ SURFACE	SP 3 @ 1'	SP 3 @ 2'
Analyte	Method	Date	5/6/21	5/6/21	5/6/21
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	N/A
Toluene	BTEX 8021B		<0.050	<0.050	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	N/A
Total Xylenes	BTEX 8021B		0.195	<0.150	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	N/A
Chloride	SM4500Cl-B		32.0	64.0	32
GRO	TPH 8015M		<10.0	<10.0	N/A
DRO	TPH 8015M		2950	<10.0	N/A
EXT DRO	TPH 8015M		9820	<10.0	N/A



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

May 19, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BRAVO DOME PLANT

Enclosed are the results of analyses for samples received by the laboratory on 05/14/21 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/14/2021
 Reported: 05/19/2021
 Project Name: BRAVO DOME PLANT
 Project Number: (2-19-21)
 Project Location: OXY-UNION CO NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP N @ SURFACE (H211261-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2021	ND	2.01	101	2.00	5.91	
Toluene*	<0.050	0.050	05/18/2021	ND	1.95	97.3	2.00	6.84	
Ethylbenzene*	<0.050	0.050	05/18/2021	ND	1.88	94.1	2.00	6.88	
Total Xylenes*	<0.150	0.150	05/18/2021	ND	5.67	94.5	6.00	6.80	
Total BTEX	<0.300	0.300	05/18/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/18/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2021	ND	218	109	200	5.49	
DRO >C10-C28*	<10.0	10.0	05/18/2021	ND	240	120	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	05/18/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 108 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/14/2021
 Reported: 05/19/2021
 Project Name: BRAVO DOME PLANT
 Project Number: (2-19-21)
 Project Location: OXY-UNION CO NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP E @ SURFACE (H211261-02)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2021	ND	2.01	101	2.00	5.91		
Toluene*	<0.050	0.050	05/18/2021	ND	1.95	97.3	2.00	6.84		
Ethylbenzene*	<0.050	0.050	05/18/2021	ND	1.88	94.1	2.00	6.88		
Total Xylenes*	<0.150	0.150	05/18/2021	ND	5.67	94.5	6.00	6.80		
Total BTX	<0.300	0.300	05/18/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/18/2021	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2021	ND	218	109	200	5.49	
DRO >C10-C28*	<10.0	10.0	05/18/2021	ND	240	120	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	05/18/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/14/2021
 Reported: 05/19/2021
 Project Name: BRAVO DOME PLANT
 Project Number: (2-19-21)
 Project Location: OXY-UNION CO NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP W @ SURFACE (H211261-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2021	ND	2.01	101	2.00	5.91		
Toluene*	<0.050	0.050	05/18/2021	ND	1.95	97.3	2.00	6.84		
Ethylbenzene*	<0.050	0.050	05/18/2021	ND	1.88	94.1	2.00	6.88		
Total Xylenes*	<0.150	0.150	05/18/2021	ND	5.67	94.5	6.00	6.80		
Total BTEX	<0.300	0.300	05/18/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/18/2021	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2021	ND	218	109	200	5.49	
DRO >C10-C28*	<10.0	10.0	05/18/2021	ND	240	120	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	05/18/2021	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-133

Surrogate: 1-Chlorooctadecane 117 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Received: 05/14/2021
 Reported: 05/19/2021
 Project Name: BRAVO DOME PLANT
 Project Number: (2-19-21)
 Project Location: OXY-UNION CO NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP S @ SURFACE (H211261-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2021	ND	1.88	93.8	2.00	5.69		
Toluene*	<0.050	0.050	05/18/2021	ND	1.88	93.8	2.00	6.95		
Ethylbenzene*	<0.050	0.050	05/18/2021	ND	1.85	92.6	2.00	6.52		
Total Xylenes*	<0.150	0.150	05/18/2021	ND	5.65	94.1	6.00	5.96		
Total BTEX	<0.300	0.300	05/18/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/18/2021	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2021	ND	218	109	200	5.49	
DRO >C10-C28*	<10.0	10.0	05/18/2021	ND	240	120	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	05/18/2021	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-133

Surrogate: 1-Chlorooctadecane 117 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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 Fax To: (575) 397-0397

Received: 05/14/2021
 Reported: 05/19/2021
 Project Name: BRAVO DOME PLANT
 Project Number: (2-19-21)
 Project Location: OXY-UNION CO NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H211261-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2021	ND	1.88	93.8	2.00	5.69		
Toluene*	<0.050	0.050	05/18/2021	ND	1.88	93.8	2.00	6.95		
Ethylbenzene*	<0.050	0.050	05/18/2021	ND	1.85	92.6	2.00	6.52		
Total Xylenes*	0.226	0.150	05/18/2021	ND	5.65	94.1	6.00	5.96		
Total BTEX	<0.300	0.300	05/18/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/18/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	05/18/2021	ND	218	109	200	5.49	
DRO >C10-C28*	2960	50.0	05/18/2021	ND	240	120	200	1.16	
EXT DRO >C28-C36	8170	50.0	05/18/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 121 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/14/2021
 Reported: 05/19/2021
 Project Name: BRAVO DOME PLANT
 Project Number: (2-19-21)
 Project Location: OXY-UNION CO NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 1' (H211261-06)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2021	ND	1.88	93.8	2.00	5.69		
Toluene*	<0.050	0.050	05/18/2021	ND	1.88	93.8	2.00	6.95		
Ethylbenzene*	<0.050	0.050	05/18/2021	ND	1.85	92.6	2.00	6.52		
Total Xylenes*	<0.150	0.150	05/18/2021	ND	5.65	94.1	6.00	5.96		
Total BTX	<0.300	0.300	05/18/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	05/18/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2021	ND	218	109	200	5.49	
DRO >C10-C28*	<10.0	10.0	05/18/2021	ND	240	120	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	05/18/2021	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-133

Surrogate: 1-Chlorooctadecane 115 % 38.9-142

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Analytical Results For:

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

Received: 05/14/2021
 Reported: 05/19/2021
 Project Name: BRAVO DOME PLANT
 Project Number: (2-19-21)
 Project Location: OXY-UNION CO NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 2' (H211261-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/18/2021	ND	400	100	400	7.69		

Sample ID: SP 1 @ 3' (H211261-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/18/2021	ND	400	100	400	7.69	

Sample ID: SP 1 @ 4' (H211261-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/18/2021	ND	400	100	400	7.69	

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Analytical Results For:

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Received: 05/14/2021
 Reported: 05/19/2021
 Project Name: BRAVO DOME PLANT
 Project Number: (2-19-21)
 Project Location: OXY-UNION CO NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ SURFACE (H211261-10)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2021	ND	1.88	93.8	2.00	6.50		
Toluene*	<0.050	0.050	05/18/2021	ND	2.10	105	2.00	5.84		
Ethylbenzene*	<0.050	0.050	05/18/2021	ND	2.16	108	2.00	4.66		
Total Xylenes*	0.185	0.150	05/18/2021	ND	6.38	106	6.00	4.89		
Total BTX	<0.300	0.300	05/18/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	05/18/2021	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2021	ND	226	113	200	2.15	
DRO >C10-C28*	823	10.0	05/18/2021	ND	235	117	200	2.50	
EXT DRO >C28-C36	2720	10.0	05/18/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 116 % 38.9-142

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Analytical Results For:

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

Received: 05/14/2021
 Reported: 05/19/2021
 Project Name: BRAVO DOME PLANT
 Project Number: (2-19-21)
 Project Location: OXY-UNION CO NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 1' (H211261-11)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2021	ND	1.88	93.8	2.00	6.50		
Toluene*	<0.050	0.050	05/18/2021	ND	2.10	105	2.00	5.84		
Ethylbenzene*	<0.050	0.050	05/18/2021	ND	2.16	108	2.00	4.66		
Total Xylenes*	<0.150	0.150	05/18/2021	ND	6.38	106	6.00	4.89		
Total BTX	<0.300	0.300	05/18/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/18/2021	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2021	ND	226	113	200	2.15	
DRO >C10-C28*	<10.0	10.0	05/17/2021	ND	235	117	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	05/17/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/14/2021
 Reported: 05/19/2021
 Project Name: BRAVO DOME PLANT
 Project Number: (2-19-21)
 Project Location: OXY-UNION CO NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 2' (H211261-12)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/18/2021	ND	400	100	400	7.69	

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 Fax To: (575) 397-0397

Received: 05/14/2021
 Reported: 05/19/2021
 Project Name: BRAVO DOME PLANT
 Project Number: (2-19-21)
 Project Location: OXY-UNION CO NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ SURFACE (H211261-13)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2021	ND	1.88	93.8	2.00	6.50		
Toluene*	<0.050	0.050	05/18/2021	ND	2.10	105	2.00	5.84		
Ethylbenzene*	<0.050	0.050	05/18/2021	ND	2.16	108	2.00	4.66		
Total Xylenes*	0.195	0.150	05/18/2021	ND	6.38	106	6.00	4.89		
Total BTX	<0.300	0.300	05/18/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/18/2021	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	05/18/2021	ND	226	113	200	2.15	
DRO >C10-C28*	2950	50.0	05/18/2021	ND	235	117	200	2.50	
EXT DRO >C28-C36	9820	50.0	05/18/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 126 % 38.9-142

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Analytical Results For:

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

Received: 05/14/2021
 Reported: 05/19/2021
 Project Name: BRAVO DOME PLANT
 Project Number: (2-19-21)
 Project Location: OXY-UNION CO NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 1' (H211261-14)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2021	ND	1.88	93.8	2.00	6.50		
Toluene*	<0.050	0.050	05/18/2021	ND	2.10	105	2.00	5.84		
Ethylbenzene*	<0.050	0.050	05/18/2021	ND	2.16	108	2.00	4.66		
Total Xylenes*	<0.150	0.150	05/18/2021	ND	6.38	106	6.00	4.89		
Total BTX	<0.300	0.300	05/18/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/18/2021	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2021	ND	226	113	200	2.15	
DRO >C10-C28*	<10.0	10.0	05/17/2021	ND	235	117	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	05/17/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/14/2021
 Reported: 05/19/2021
 Project Name: BRAVO DOME PLANT
 Project Number: (2-19-21)
 Project Location: OXY-UNION CO NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 2' (H211261-15)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/18/2021	ND	400	100	400	7.69	

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Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

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



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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. You can contact your community or the FEMA FMIX for more information about flood risk and flood insurance in your community.

You can choose a new flood map or move the location pin by selecting a different location on the locator map below or by entering a new location in the search field above. It may take a minute or more during peak hours to generate a dynamic FIRMette. If you are a person with a disability, are blind, or have low vision, and need assistance, please contact a map specialist (https://msc.fema.gov/portal/resources/contact).



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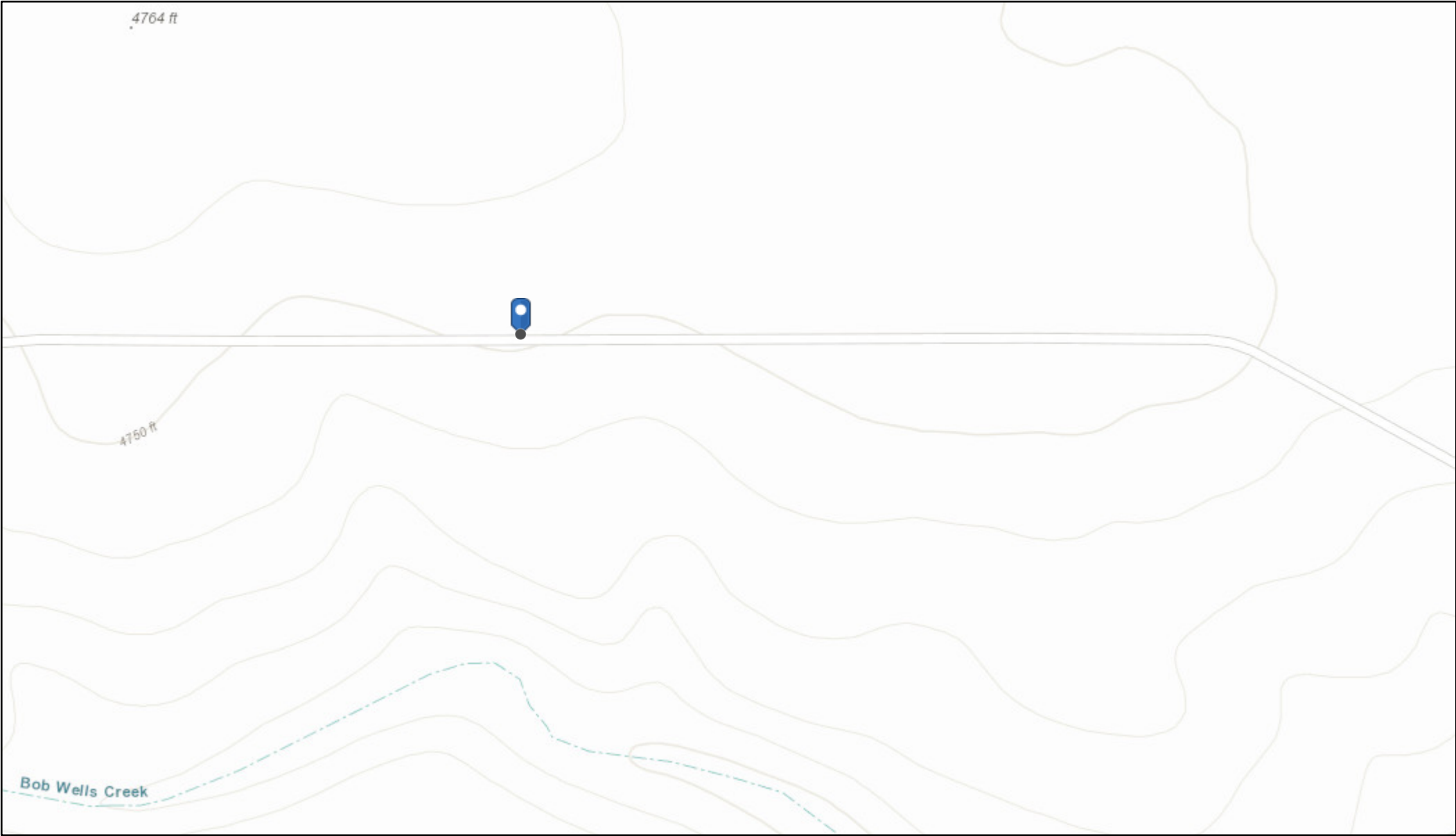
(<http://www.dhs.gov>) [Ready.gov](http://www.ready.gov) (<http://www.ready.gov>) [USA.gov](http://www.usa.gov) (<http://www.usa.gov>) DisasterAssistance.gov (<http://www.disasterassistance.gov/>)



(<https://www.oig.dhs.gov/hotline>)

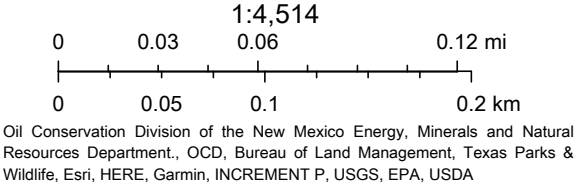
 Official website of the Department of Homeland Security

Oxy Bravo Dome Plant(2/19/21) 3000 ft' H2O



6/28/2021, 4:02:32 PM

- | | | | | | | | | |
|---------------------|---|----------------------------|---|----------------|---|----------------------------|---|--------------------|
| Wells - Large Scale | ✱ | CO2, Cancelled | ✱ | Gas, Active | ✱ | Gas, Temporarily Abandoned | ✱ | Injection, Plugged |
| ? undefined | ✱ | CO2, New | ✱ | Gas, Cancelled | ✱ | Injection, Active | ✱ | |
| ● Miscellaneous | ✱ | CO2, Plugged | ✱ | Gas, New | ✱ | Injection, Cancelled | ✱ | |
| ✱ CO2, Active | ✱ | CO2, Temporarily Abandoned | ✱ | Gas, Plugged | ✱ | Injection, New | ✱ | |



Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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1625 N. French Dr., Hobbs, NM 88240
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District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 38238

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 38238
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	8/30/2021