

## Closure Report

### 2RP-5216

#### Site Description

Site Name:	McKittrick Hills 11-5 SWD Battery	Incident ID: NAB1903245326
Company:	Oxy, USA Inc.	API: 30-015-33611
Legal Description:	U/L M, Section 2, T21S, R24E	
County:	Eddy County, NM	
GPS Coordinates:	N 32.41420 W -103.47431	

#### Release Data

Date of Release:	1/8/2019
Type of Release:	Crude Oil
Source of Release:	Hole in Oil Tank
Volume of Release:	Unknown
Volume Recovered:	0 bbls

#### Remediation Specifications

Remediation Parameters:	Impacted soil was excavated to a depth of 7 feet. Confirmation samples were collected which meets closure criteria. Site has been back filled with clean soil.
Remediation Activities:	4/8/19 to 4/16/19 and 7/9/2020 to 7/29/2020

Plan Sent to OCD:	1/25/2019	Email from Kathy Purvis to Mike Bratcher
OCD Approval of Plan:	2/1/2019	Email from Robert Hamlet to Kathy Purvis
Plan Sent to BLM:	n/a	Not required
BLM Approval of Plan:	n/a	Not required

#### Supporting Documentation

Initial C-141	signed and included	
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 3/14/19 & 7/22/20	
Depth to Groundwater	USGS Info	

#### Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.		
Cliff Brunson, President of BBC International Inc.		9/8/2020

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	NAB1903245326
District RP	2RP-5216
Facility ID	
Application ID	pAB1903244576

## Release Notification

### Responsible Party

Responsible Party	OXY USA INC.	OGRID	16696
Contact Name	WADE DITTRICH	Contact Telephone	(575) 390-2828
Contact email	WADE_DITTRICH@OXY.COM	Incident # (assigned by OCD)	NAB1903245326
Contact mailing address	PO BOX 4294; HOUSTON, TX 77210		

### Location of Release Source

Latitude N 32.41420 Longitude W -104.47431  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	MCKITTRICK 11-5 SWD BATTERY	Site Type	BATTERY
Date Release Discovered	UNKNOWN 1/08/2019**	API# (if applicable)	30-015-33611

\*\*Per Wade D.: State Land discovered the spill. AB

Unit Letter	Section	Township	Range	County
M	2	21S	24E	EDDY COUNTY, NM

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) UNKNOWN	Volume Recovered (bbls) 0 BBLS
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

UNKNOWN

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State of New Mexico  
Oil Conservation Division

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Incident ID	NAB1903245326
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Facility ID	
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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### 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.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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: 1-25-19

email: wade\_dittrich@oxy.com

Telephone: (575) 390-2828

#### OCD Only

Received by: 

Date: 2/1/2019

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State of New Mexico  
Oil Conservation Division

Incident ID	NAB1903245326
District RP	2RP-5216
Facility ID	
Application ID	pAB1903244576

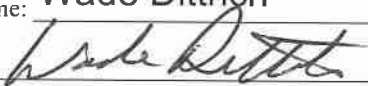
## Closure

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 (electronic submittals in .pdf format are preferred) 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.

**Closure Report Attachment Checklist:** Each of the following items must be included in the closure report.

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to 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.

Printed Name: Wade Dittrich Title: Environmental Coordinator  
Signature:  Date: 8-6-2020  
email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_



# Oxy McKittrick Hills 11-5 SWD Battery

Leak Date: 1-8-2019  
Eddy County, NM  
API: 30-015-33611  
Incident ID: NAB1903245326

Legend

4 ft Excavation

7 ft Excavation

8 ft Excavation

Confirmation Sample Points

Leak Area A

Leak Area B



Oxy, McKittrick Hills 11-5 SWD Battery (1-8-19)

**Leak Area A**

Confirmation Sample Points:

B1, N 32.41432 W 104.47406

B2, N 32.41440 W 104.47403

B3, N 32.41435 W 104.47400

B4, N 32.41440 W 104.47395

B5, N 32.41437 W 104.47388

Oxy, McKittrick Hills 11-5 SWD Battery (1-8-19)

**Leak Area B**

Confirmation Sample Points:

B1, N 32.41440 W 104.47421

B2, N 32.41443 W 104.47419

B3, N 32.41442 W 104.47414

B4, N 32.41438 W 104.47415

SW1, N 32.41437 W 104.47420

SW2, N 32.41443 W 104.47421

SW3, N 32.41444 W 104.47416















07/24/2020



07/27/2020





Laboratory Analytical Results Summary  
McKittrick Hills 11-5 SWD Battery

		Sample ID	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'
Analyte	Method	Date	3/14/19	3/14/19	3/14/19	3/14/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.112	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.601	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		0.713	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		64	112	96	32
GRO	TPH 8015M		19.8	<10.0	<10.0	<10.0
DRO	TPH 8015M		1460	575	54.3	27.6
EXT DRO	TPH 8015M		335	127	<10.0	<10.0

		Sample ID	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'	SP2 @ 6'	SP2 @ 7'	SP2 @ 8'	SP2 @ 9'
Analyte	Method	Date	3/14/19	3/14/19	3/14/19	3/14/19	3/14/19	3/14/19	3/14/19	3/14/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.500	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.052	<0.050	1.21	0.109	0.1	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.287	1.88	5.31	0.667	0.726	0.393	<0.050	<0.050
Total Xylenes	BTEX 8021B		3.96	11.2	47.4	2.35	3.23	1.52	<0.150	<0.150
Total BTEX	BTEX 8021B		4.3	13.1	53.9	3.13	4.06	1.91	<0.300	<0.300
Chloride	SM4500Cl-B		80	64	80	48	48	48	32	48
GRO	TPH 8015M		34.3	319	1060	89.1	98.6	60.8	<10.0	<10.0
DRO	TPH 8015M		6800	3750	8430	1840	1970	1500	28.3	34.5
EXT DRO	TPH 8015M		1830	834	1830	413	413	327	<10.0	<10.0

		Sample ID	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
Analyte	Method	Date	3/14/19	3/14/19	3/14/19	3/14/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.057	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.367	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		0.424	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		48	48	48	32
GRO	TPH 8015M		15.6	<10.0	<10.0	<10.0
DRO	TPH 8015M		910	14.4	<10.0	<10.0
EXT DRO	TPH 8015M		203	<10.0	<10.0	<10.0

		Sample ID	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	3/14/19	3/14/19	3/14/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.144	0.062	<0.050
Total Xylenes	BTEX 8021B		1.32	0.388	<0.150
Total BTEX	BTEX 8021B		1.46	0.45	<0.300
Chloride	SM4500Cl-B		64	80	32
GRO	TPH 8015M		21.9	<10.0	<10.0
DRO	TPH 8015M		5210	735	16.9
EXT DRO	TPH 8015M		1400	198	<10.0

Laboratory Analytical Results Summary  
McKittrick Hills 11-5 SWD Battery

		Sample ID	SP5 @ 2'
Analyte	Method	Date	3/14/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		64
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		251
EXT DRO	TPH 8015M		53.1



Laboratory Analytical Results Summary  
McKittrick 11 Fed SWD #5 (1-8-19)

		Sample ID	C Bottom 1	C Bottom 2	C Bottom 3	C Bottom 4
Analyte	Method	Date	7/22/20	7/22/20	7/22/20	7/22/20
			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		32.0	48.0	48.0	32.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		12.1	129	41.1	21.5
EXT DRO	TPH 8015M		<10.0	26.1	<10.0	<10.0

		Sample ID	C SW1	C SW2	C SW3
Analyte	Method	Date	7/22/20	7/22/20	7/22/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32.0	32.0	32.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		52.7	84.5	105
EXT DRO	TPH 8015M		<10.0	<10.0	16.8



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

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March 21, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MCKITTRICK HILLS 11 - 5 SWD BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/19/19 14:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

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:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 1 @ 2' (H901057-01)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2019	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	03/20/2019	ND	2.12	106	2.00	1.92	
Ethylbenzene*	0.112	0.050	03/20/2019	ND	2.27	113	2.00	2.66	
Total Xylenes*	0.601	0.150	03/20/2019	ND	6.59	110	6.00	3.44	
Total BTX	0.713	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 156 % 73.3-129

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/20/2019	ND	448	112	400	3.64	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19.8	10.0	03/20/2019	ND	214	107	200	4.20	
DRO >C10-C28*	1460	10.0	03/20/2019	ND	195	97.5	200	12.0	
EXT DRO >C28-C36	335	10.0	03/20/2019	ND					

Surrogate: 1-Chlorooctane 96.1 % 41-142

Surrogate: 1-Chlorooctadecane 126 % 37.6-147

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:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 1 @ 3' (H901057-02)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2019	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	03/20/2019	ND	2.12	106	2.00	1.92	
Ethylbenzene*	<0.050	0.050	03/20/2019	ND	2.27	113	2.00	2.66	
Total Xylenes*	<0.150	0.150	03/20/2019	ND	6.59	110	6.00	3.44	
Total BTX	<0.300	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 138 % 73.3-129

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/20/2019	ND	448	112	400	3.64	

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	03/20/2019	ND	214	107	200	4.20	
DRO >C10-C28*	575	10.0	03/20/2019	ND	195	97.5	200	12.0	
EXT DRO >C28-C36	127	10.0	03/20/2019	ND					

Surrogate: 1-Chlorooctane 84.8 % 41-142

Surrogate: 1-Chlorooctadecane 93.7 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such 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



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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:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 1 @ 4' (H901057-03)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2019	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	03/20/2019	ND	2.12	106	2.00	1.92	
Ethylbenzene*	<0.050	0.050	03/20/2019	ND	2.27	113	2.00	2.66	
Total Xylenes*	<0.150	0.150	03/20/2019	ND	6.59	110	6.00	3.44	
Total BTX	<0.300	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 73.3-129

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/20/2019	ND	448	112	400	3.64	

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	03/20/2019	ND	214	107	200	4.20	
DRO >C10-C28*	54.3	10.0	03/20/2019	ND	195	97.5	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					

Surrogate: 1-Chlorooctane 89.9 % 41-142

Surrogate: 1-Chlorooctadecane 88.9 % 37.6-147

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**Analytical Results For:**

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

Received:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 1 @ 5' (H901057-04)**

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	03/20/2019	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	03/20/2019	ND	2.12	106	2.00	1.92	
Ethylbenzene*	<0.050	0.050	03/20/2019	ND	2.27	113	2.00	2.66	
Total Xylenes*	<0.150	0.150	03/20/2019	ND	6.59	110	6.00	3.44	
Total BTX	<0.300	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/20/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	214	107	200	4.20	
DRO >C10-C28*	27.6	10.0	03/20/2019	ND	195	97.5	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					

Surrogate: 1-Chlorooctane 87.0 % 41-142

Surrogate: 1-Chlorooctadecane 85.9 % 37.6-147

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**Analytical Results For:**

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

Received:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 2 @ 2' (H901057-05)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2019	ND	2.08	104	2.00	1.66	
Toluene*	0.052	0.050	03/20/2019	ND	2.12	106	2.00	1.92	
Ethylbenzene*	0.287	0.050	03/20/2019	ND	2.27	113	2.00	2.66	
Total Xylenes*	3.96	0.150	03/20/2019	ND	6.59	110	6.00	3.44	
Total BTX	4.30	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 153 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/20/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	34.3	10.0	03/20/2019	ND	214	107	200	4.20	
DRO >C10-C28*	6800	10.0	03/20/2019	ND	195	97.5	200	12.0	
EXT DRO >C28-C36	1830	10.0	03/20/2019	ND					

Surrogate: 1-Chlorooctane 86.0 % 41-142

Surrogate: 1-Chlorooctadecane 356 % 37.6-147

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**Analytical Results For:**

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

Received:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 2 @ 3' (H901057-06)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/20/2019	ND	2.08	104	2.00	1.66	
Toluene*	<0.500	0.500	03/20/2019	ND	2.12	106	2.00	1.92	
Ethylbenzene*	1.88	0.500	03/20/2019	ND	2.27	113	2.00	2.66	
Total Xylenes*	11.2	1.50	03/20/2019	ND	6.59	110	6.00	3.44	
Total BTX	13.1	3.00	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 152 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/20/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	319	10.0	03/20/2019	ND	221	110	200	2.79	
DRO >C10-C28*	3750	10.0	03/20/2019	ND	209	105	200	6.60	
EXT DRO >C28-C36	834	10.0	03/20/2019	ND					

Surrogate: 1-Chlorooctane 169 % 41-142

Surrogate: 1-Chlorooctadecane 158 % 37.6-147

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**Analytical Results For:**

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

Received:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 2 @ 4' (H901057-07)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/20/2019	ND	2.08	104	2.00	1.66	
Toluene*	1.21	0.500	03/20/2019	ND	2.12	106	2.00	1.92	
Ethylbenzene*	5.31	0.500	03/20/2019	ND	2.27	113	2.00	2.66	
Total Xylenes*	47.4	1.50	03/20/2019	ND	6.59	110	6.00	3.44	
Total BTX	53.9	3.00	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 162 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/20/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1060	10.0	03/20/2019	ND	221	110	200	2.79	
DRO >C10-C28*	8430	10.0	03/20/2019	ND	209	105	200	6.60	
EXT DRO >C28-C36	1830	10.0	03/20/2019	ND					

Surrogate: 1-Chlorooctane 285 % 41-142

Surrogate: 1-Chlorooctadecane 331 % 37.6-147

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**Analytical Results For:**

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

Received:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 2 @ 5' (H901057-08)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2019	ND	2.08	104	2.00	1.66	
Toluene*	0.109	0.050	03/20/2019	ND	2.12	106	2.00	1.92	
Ethylbenzene*	0.667	0.050	03/20/2019	ND	2.27	113	2.00	2.66	
Total Xylenes*	2.35	0.150	03/20/2019	ND	6.59	110	6.00	3.44	
Total BTX	3.13	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 212 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/20/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	89.1	10.0	03/20/2019	ND	221	110	200	2.79	
DRO >C10-C28*	1840	10.0	03/20/2019	ND	209	105	200	6.60	
EXT DRO >C28-C36	413	10.0	03/20/2019	ND					

Surrogate: 1-Chlorooctane 125 % 41-142

Surrogate: 1-Chlorooctadecane 136 % 37.6-147

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**Analytical Results For:**

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

Received:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 2 @ 6' (H901057-09)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2019	ND	2.08	104	2.00	1.66	
Toluene*	<b>0.100</b>	0.050	03/20/2019	ND	2.12	106	2.00	1.92	
Ethylbenzene*	<b>0.726</b>	0.050	03/20/2019	ND	2.27	113	2.00	2.66	
Total Xylenes*	<b>3.23</b>	0.150	03/20/2019	ND	6.59	110	6.00	3.44	
Total BTEX	<b>4.06</b>	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 218 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>48.0</b>	16.0	03/20/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>98.6</b>	10.0	03/20/2019	ND	221	110	200	2.79	
DRO >C10-C28*	<b>1970</b>	10.0	03/20/2019	ND	209	105	200	6.60	
EXT DRO >C28-C36	<b>413</b>	10.0	03/20/2019	ND					

Surrogate: 1-Chlorooctane 127 % 41-142

Surrogate: 1-Chlorooctadecane 139 % 37.6-147

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**Analytical Results For:**

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

Received:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 2 @ 7' (H901057-10)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2019	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	03/20/2019	ND	2.12	106	2.00	1.92	
Ethylbenzene*	<b>0.393</b>	0.050	03/20/2019	ND	2.27	113	2.00	2.66	
Total Xylenes*	<b>1.52</b>	0.150	03/20/2019	ND	6.59	110	6.00	3.44	
Total BTX	<b>1.91</b>	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 191 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>48.0</b>	16.0	03/20/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>60.8</b>	10.0	03/21/2019	ND	221	110	200	2.79	
DRO >C10-C28*	<b>1500</b>	10.0	03/21/2019	ND	209	105	200	6.60	
EXT DRO >C28-C36	<b>327</b>	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 126 % 37.6-147

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**Analytical Results For:**

BBC International, Inc.  
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 Fax To: (575) 397-0397

Received:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 2 @ 8' (H901057-11)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2019	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	03/20/2019	ND	2.12	106	2.00	1.92	
Ethylbenzene*	<0.050	0.050	03/20/2019	ND	2.27	113	2.00	2.66	
Total Xylenes*	<0.150	0.150	03/20/2019	ND	6.59	110	6.00	3.44	
Total BTX	<0.300	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/20/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2019	ND	221	110	200	2.79	
DRO >C10-C28*	28.3	10.0	03/21/2019	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 89.8 % 41-142

Surrogate: 1-Chlorooctadecane 86.8 % 37.6-147

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**Analytical Results For:**

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

Received:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 2 @ 9' (H901057-12)**

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	03/20/2019	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	03/20/2019	ND	2.12	106	2.00	1.92	
Ethylbenzene*	<0.050	0.050	03/20/2019	ND	2.27	113	2.00	2.66	
Total Xylenes*	<0.150	0.150	03/20/2019	ND	6.59	110	6.00	3.44	
Total BTX	<0.300	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/20/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2019	ND	221	110	200	2.79	
DRO >C10-C28*	34.5	10.0	03/21/2019	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 90.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.8 % 37.6-147

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\*=Accredited Analyte

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**Analytical Results For:**

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

Received:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 3 @ 2' (H901057-13)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2019	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	03/20/2019	ND	2.12	106	2.00	1.92	
Ethylbenzene*	0.057	0.050	03/20/2019	ND	2.27	113	2.00	2.66	
Total Xylenes*	0.367	0.150	03/20/2019	ND	6.59	110	6.00	3.44	
Total BTX	0.424	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 147 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/20/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	15.6	10.0	03/21/2019	ND	221	110	200	2.79	
DRO >C10-C28*	910	10.0	03/21/2019	ND	209	105	200	6.60	
EXT DRO >C28-C36	203	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 96.7 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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**Analytical Results For:**

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

Received:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 3 @ 3' (H901057-14)**

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	03/20/2019	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	03/20/2019	ND	2.12	106	2.00	1.92	
Ethylbenzene*	<0.050	0.050	03/20/2019	ND	2.27	113	2.00	2.66	
Total Xylenes*	<0.150	0.150	03/20/2019	ND	6.59	110	6.00	3.44	
Total BTX	<0.300	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/20/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2019	ND	221	110	200	2.79	
DRO >C10-C28*	14.4	10.0	03/21/2019	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 86.9 % 41-142

Surrogate: 1-Chlorooctadecane 81.2 % 37.6-147

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**Analytical Results For:**

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

Received:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 3 @ 4' (H901057-15)**

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	03/20/2019	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	03/20/2019	ND	2.12	106	2.00	1.92	
Ethylbenzene*	<0.050	0.050	03/20/2019	ND	2.27	113	2.00	2.66	
Total Xylenes*	<0.150	0.150	03/20/2019	ND	6.59	110	6.00	3.44	
Total BTX	<0.300	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/20/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2019	ND	221	110	200	2.79	
DRO >C10-C28*	<10.0	10.0	03/21/2019	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 84.9 % 41-142

Surrogate: 1-Chlorooctadecane 79.6 % 37.6-147

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**Analytical Results For:**

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

Received:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 3 @ 5' (H901057-16)**

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	03/20/2019	ND	2.01	100	2.00	2.30	
Toluene*	<0.050	0.050	03/20/2019	ND	2.04	102	2.00	3.39	
Ethylbenzene*	<0.050	0.050	03/20/2019	ND	2.15	108	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/20/2019	ND	6.28	105	6.00	3.93	
Total BTX	<0.300	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/20/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2019	ND	221	110	200	2.79	
DRO >C10-C28*	<10.0	10.0	03/21/2019	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 88.0 % 41-142

Surrogate: 1-Chlorooctadecane 84.0 % 37.6-147

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**Analytical Results For:**

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

Received:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 4 @ 2' (H901057-17)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2019	ND	2.01	100	2.00	2.30	
Toluene*	<0.050	0.050	03/20/2019	ND	2.04	102	2.00	3.39	
Ethylbenzene*	<b>0.144</b>	0.050	03/20/2019	ND	2.15	108	2.00	3.07	
Total Xylenes*	<b>1.32</b>	0.150	03/20/2019	ND	6.28	105	6.00	3.93	
Total BTX	<b>1.46</b>	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 145 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>64.0</b>	16.0	03/20/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>21.9</b>	10.0	03/21/2019	ND	221	110	200	2.79	
DRO >C10-C28*	<b>5210</b>	10.0	03/21/2019	ND	209	105	200	6.60	
EXT DRO >C28-C36	<b>1400</b>	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 90.4 % 41-142

Surrogate: 1-Chlorooctadecane 286 % 37.6-147

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**Analytical Results For:**

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

Received:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 4 @ 3' (H901057-18)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2019	ND	2.01	100	2.00	2.30	
Toluene*	<0.050	0.050	03/20/2019	ND	2.04	102	2.00	3.39	
Ethylbenzene*	0.062	0.050	03/20/2019	ND	2.15	108	2.00	3.07	
Total Xylenes*	0.388	0.150	03/20/2019	ND	6.28	105	6.00	3.93	
Total BTX	0.450	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 145 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/20/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2019	ND	221	110	200	2.79	
DRO >C10-C28*	735	10.0	03/21/2019	ND	209	105	200	6.60	
EXT DRO >C28-C36	198	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 88.0 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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**Analytical Results For:**

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

Received:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 4 @ 4' (H901057-19)**

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	03/20/2019	ND	2.01	100	2.00	2.30	
Toluene*	<0.050	0.050	03/20/2019	ND	2.04	102	2.00	3.39	
Ethylbenzene*	<0.050	0.050	03/20/2019	ND	2.15	108	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/20/2019	ND	6.28	105	6.00	3.93	
Total BTX	<0.300	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/20/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2019	ND	221	110	200	2.79	
DRO >C10-C28*	16.9	10.0	03/21/2019	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 87.3 % 41-142

Surrogate: 1-Chlorooctadecane 82.2 % 37.6-147

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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:	03/19/2019	Sampling Date:	03/14/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: SP 5 @ 2' (H901057-20)**

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	03/20/2019	ND	2.01	100	2.00	2.30	
Toluene*	<0.050	0.050	03/20/2019	ND	2.04	102	2.00	3.39	
Ethylbenzene*	<0.050	0.050	03/20/2019	ND	2.15	108	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/20/2019	ND	6.28	105	6.00	3.93	
Total BTX	<0.300	0.300	03/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/20/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2019	ND	221	110	200	2.79	
DRO >C10-C28*	251	10.0	03/21/2019	ND	209	105	200	6.60	
EXT DRO >C28-C36	53.1	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 81.4 % 41-142

Surrogate: 1-Chlorooctadecane 83.2 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by 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 "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager





# **CARDINAL LABORATORIES**

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

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

1 of 2

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-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CI</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPHXT</div> </div>																											
Address: P.O. Box 805				Company: <i>Oxy</i>																															
City: Hobbs State: NM Zip: 88241				Attn: <i>W. Dittich</i>																															
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																															
Project #: Project Owner: Oxy				City:																															
Project Name: McKittrick Hills 11-5 SWD Battery				State: Zip:																															
Project Location: Eddy County, NM				Phone #:																															
Sampler Name: Jeff Ornelas				Fax #:																															
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.	SAMPLING																									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME																					
	<i>H901057</i>																																		
	<i>1</i>	SP1 @ 2'	<i>G</i>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		3/14/19	8:40 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		
	<i>2</i>	SP1 @ 3'											3/14/19	8:55 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		
	<i>3</i>	SP1 @ 4'											3/14/19	9:19 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		
	<i>4</i>	SP1 @ 5'											3/14/19	9:33 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		
	<i>5</i>	SP2 @ 2'											3/14/19	9:35 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		
	<i>6</i>	SP2 @ 3'											3/14/19	9:55 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		
	<i>7</i>	SP2 @ 4'											3/14/19	10:15 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		
	<i>8</i>	SP2 @ 5'											3/14/19	10:33 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		
	<i>9</i>	SP2 @ 6'											3/14/19	10:44 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		
	<i>10</i>	SP2 @ 7'											3/14/19	10:59 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>3/14/19</i> Time: <i>5:00pm</i>	Received By: <i>Maellana</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>Maellana</i>	Date: <i>3/19/19</i> Time: <i>2:40pm</i>	Received By: <i>Jamara Olden</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>2.7°C #97</i>			REMARKS:	
Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			CHECKED BY: (Initials) <i>TO</i>	

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



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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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[illegible]

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Relinquished By:	Date: 3/14/19	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 5:00pm		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 3-19-19	Received By:	REMARKS:	
	Time: 2:40pm			
Delivered By: (Circle One)		Sample Condition		
Sampler - UPS - Bus - Other:	2.7°C #97	Cool <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		
		CHECKED BY: (Initials)		

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



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July 28, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MCKITTRICK HILLS 11 - 5 SWD BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/27/20 12:00.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/27/2020	Sampling Date:	07/22/2020
Reported:	07/28/2020	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: C BOTTOM 1 (H001943-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2020	ND	1.79	89.7	2.00	8.74	
Toluene*	<0.050	0.050	07/27/2020	ND	1.80	90.2	2.00	9.02	
Ethylbenzene*	<0.050	0.050	07/27/2020	ND	1.82	91.1	2.00	8.36	
Total Xylenes*	<0.150	0.150	07/27/2020	ND	5.23	87.2	6.00	8.33	
Total BTEX	<0.300	0.300	07/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 73.3-129

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	07/27/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2020	ND	212	106	200	4.68	
DRO >C10-C28*	12.1	10.0	07/27/2020	ND	256	128	200	16.9	
EXT DRO >C28-C36	<10.0	10.0	07/27/2020	ND					

Surrogate: 1-Chlorooctane 79.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.7 % 42.2-156

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:	07/27/2020	Sampling Date:	07/22/2020
Reported:	07/28/2020	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: C BOTTOM 2 (H001943-02)**

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	07/27/2020	ND	1.79	89.7	2.00	8.74		
Toluene*	<0.050	0.050	07/27/2020	ND	1.80	90.2	2.00	9.02		
Ethylbenzene*	<0.050	0.050	07/27/2020	ND	1.82	91.1	2.00	8.36		
Total Xylenes*	<0.150	0.150	07/27/2020	ND	5.23	87.2	6.00	8.33		
Total BTX	<0.300	0.300	07/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 73.3-129

Chloride, SM4500CI-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	07/27/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2020	ND	212	106	200	4.68	
DRO >C10-C28*	129	10.0	07/27/2020	ND	256	128	200	16.9	
EXT DRO >C28-C36	26.1	10.0	07/27/2020	ND					

Surrogate: 1-Chlorooctane 76.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.1 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	07/27/2020	Sampling Date:	07/22/2020
Reported:	07/28/2020	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: C BOTTOM 3 (H001943-03)**

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	07/27/2020	ND	1.79	89.7	2.00	8.74		
Toluene*	<0.050	0.050	07/27/2020	ND	1.80	90.2	2.00	9.02		
Ethylbenzene*	<0.050	0.050	07/27/2020	ND	1.82	91.1	2.00	8.36		
Total Xylenes*	<0.150	0.150	07/27/2020	ND	5.23	87.2	6.00	8.33		
Total BTX	<0.300	0.300	07/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 73.3-129

Chloride, SM4500CI-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	07/27/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2020	ND	212	106	200	4.68	
DRO >C10-C28*	41.1	10.0	07/27/2020	ND	256	128	200	16.9	
EXT DRO >C28-C36	<10.0	10.0	07/27/2020	ND					

Surrogate: 1-Chlorooctane 77.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.5 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/27/2020	Sampling Date:	07/22/2020
Reported:	07/28/2020	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: C BOTTOM 4 (H001943-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2020	ND	1.79	89.7	2.00	8.74		
Toluene*	<0.050	0.050	07/27/2020	ND	1.80	90.2	2.00	9.02		
Ethylbenzene*	<0.050	0.050	07/27/2020	ND	1.82	91.1	2.00	8.36		
Total Xylenes*	<0.150	0.150	07/27/2020	ND	5.23	87.2	6.00	8.33		
Total BTEX	<0.300	0.300	07/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 73.3-129

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	07/27/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2020	ND	212	106	200	4.68	
DRO >C10-C28*	21.5	10.0	07/27/2020	ND	256	128	200	16.9	
EXT DRO >C28-C36	<10.0	10.0	07/27/2020	ND					

Surrogate: 1-Chlorooctane 72.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/27/2020	Sampling Date:	07/22/2020
Reported:	07/28/2020	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: C SW 1 (H001943-05)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2020	ND	1.79	89.7	2.00	8.74		
Toluene*	<0.050	0.050	07/27/2020	ND	1.80	90.2	2.00	9.02		
Ethylbenzene*	<0.050	0.050	07/27/2020	ND	1.82	91.1	2.00	8.36		
Total Xylenes*	<0.150	0.150	07/27/2020	ND	5.23	87.2	6.00	8.33		
Total BTEx	<0.300	0.300	07/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 73.3-129

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	07/27/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2020	ND	212	106	200	4.68	
DRO >C10-C28*	52.7	10.0	07/27/2020	ND	256	128	200	16.9	
EXT DRO >C28-C36	<10.0	10.0	07/27/2020	ND					

Surrogate: 1-Chlorooctane 79.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.1 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	07/27/2020	Sampling Date:	07/22/2020
Reported:	07/28/2020	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: C SW 2 (H001943-06)**

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2020	ND	1.79	89.7	2.00	8.74		
Toluene*	<0.050	0.050	07/27/2020	ND	1.80	90.2	2.00	9.02		
Ethylbenzene*	<0.050	0.050	07/27/2020	ND	1.82	91.1	2.00	8.36		
Total Xylenes*	<0.150	0.150	07/27/2020	ND	5.23	87.2	6.00	8.33		
Total BTEX	<0.300	0.300	07/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 73.3-129

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	07/27/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2020	ND	212	106	200	4.68	
DRO >C10-C28*	84.5	10.0	07/27/2020	ND	256	128	200	16.9	
EXT DRO >C28-C36	<10.0	10.0	07/27/2020	ND					

Surrogate: 1-Chlorooctane 83.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/27/2020	Sampling Date:	07/22/2020
Reported:	07/28/2020	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS 11 - 5 SWD BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY COUNTY, NM		

**Sample ID: C SW 3 (H001943-07)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2020	ND	1.79	89.7	2.00	8.74		
Toluene*	<0.050	0.050	07/27/2020	ND	1.80	90.2	2.00	9.02		
Ethylbenzene*	<0.050	0.050	07/27/2020	ND	1.82	91.1	2.00	8.36		
Total Xylenes*	<0.150	0.150	07/27/2020	ND	5.23	87.2	6.00	8.33		
Total BTEx	<0.300	0.300	07/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 73.3-129

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	07/27/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2020	ND	212	106	200	4.68	
DRO >C10-C28*	105	10.0	07/28/2020	ND	256	128	200	16.9	
EXT DRO >C28-C36	16.8	10.0	07/28/2020	ND					

Surrogate: 1-Chlorooctane 83.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager





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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

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

Celey D. Keene, Lab Director/Quality Manager



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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## National Water Information System: Web Interface

USGS Water Resources

Data Category:  
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Geographic Area:  
New Mexico

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Groundwater levels for New Mexico

Click to hide state-specific text

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 322930104291201

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 322930104291201 21S.24E.10.144321

Eddy County, New Mexico

Latitude 32°29'30", Longitude 104°29'12" NAD27

Land-surface elevation 3,900.0 feet above NGVD29

The depth of the well is 220.0 feet below land surface.

This well is completed in the Artesia Group (313ARTS) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measure
1987-10-07			D	153.48		2	R	S		

#### Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status	R	Site had been pumped recently.
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title: Groundwater for New Mexico: Water Levels**

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



Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2020-08-05 15:32:42 EDT

0.23 0.22 nadww02

Form C-141

Page 6

State of New Mexico  
Oil Conservation Division

Incident ID	NAB1903245326
District RP	2RP-5216
Facility ID	
Application ID	pAB1903244576


## Closure

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 (electronic submittals in .pdf format are preferred) 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.

**Closure Report Attachment Checklist:** Each of the following items must be included in the closure report.

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to 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.

Printed Name: Wade Dittrich Title: Environmental Coordinator  
Signature:  Date: 8-6-2020  
email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**

Received by: Robert Hamlet Date: 2/23/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Robert Hamlet Date: 2/23/2021  
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced



**From:** [Hamlet, Robert, EMNRD](#)  
**To:** ["Dittrich, John W"](#)  
**Cc:** [Bratcher, Mike, EMNRD](#); [Eads, Cristina, EMNRD](#); [Hensley, Chad, EMNRD](#)  
**Subject:** Closure Approval - OXY - McKittrick Hills 11-5 SWD Battery - (Incident #NAB1903245326)  
**Date:** Tuesday, February 23, 2021 9:45:00 AM  
**Attachments:** [Closure Approval - OXY - McKittrick Hills 11-5 SWD Battery - \(NAB1903245326\).pdf](#)

---

Wade,

We have received your closure report and final C-141 for **Incident #NAB1903245326 McKittrick Hills 11-5 SWD Battery**, thank you. This closure is approved.

Please let me know if you have any further questions.

Regards,

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**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 10149

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
OXY USA INC P.O. Box 4294 Houston, TX772104294			16696	10149	C-141
OCD Reviewer	Condition				
rhamlet	We have received your closure report and final C-141 for Incident #NAB1903245326 McKittrick Hills 11-5 SWD Battery, thank you. This closure is approved.				