

Closure Report

Site Description

Site Name:	South Mattix Battery
Company:	Oxy Permian Ltd.
Legal Description:	U/L G, Section 15, T24S, R37E
County:	Lea County, NM
GPS Coordinates:	N 32.21699° W 103.14929°

Release Data

Date of Release:	04/10/2014
Type of Release:	Oil
Source of Release:	External corrosion on a 2" line from the pump to the header
Volume of Release:	15 bbls
Volume Recovered:	1 bbl

Remediation Specifications

Remediation Parameters:	Excavate to a depth of 3 feet in the area around SP1. Excavate to a depth of 1 foot in the area of SP2. Obtain confirmation field screens. Backfill the site with clean soil.	
Remediation Activities:	10/13/2014 to 10/20/2014	
Plan Sent to OCD:	06/26/2014	Email from Cliff Brunson to Geoffrey Leking
OCD Approval of Plan:	07/01/2014	Email from Geoffrey Leking to Cliff Brunson
Plan Sent to BLM:	06/26/2014	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	06/30/2014	Meeting between C. Brunson & J. Van Curen

Supporting Documentation

Initial C-141	Signed 04/15/2014
Final C-141	Signed 11/03/2014
Site Diagram	April 2014
Groundwater Plot	75'-100'
TOPO Maps	April 2014
Lab Summary	04/28/2014 and 10/16/2014
Lab Analysis	04/28/2014 and 10/16/2014
Correspondence	Request and approval of remediation plan via email

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.

11/10/2014

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

Form C-141
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	South Mattix Battery	Facility Type	Battery
Surface Owner	Grobey	Mineral Owner	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	15	24S	37E					Lea

Latitude N 32.21709° Longitude W 103.14918°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	15 bbls	Volume Recovered	1 bbls
Source of Release	External corrosion on a 2" circulating line from the circulating pump to the header	Date and Hour of Occurrence	04/10/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking-NMOCD, Jennifer Van Curen-BLM		
By Whom?	Jennifer Gilkey	Date and Hour	04/10/2014 @ 11:41 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

External corrosion on a 2" circulating line from the circulating pump to the header leaked 15 bbls of oil onto the ground. A vacuum truck recovered 1 bbls of oil and the line was repaired or replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 40' x 20' on location. Remediation will be completed in accordance with an approved remediation plan from NMOCD and the BLM.

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

Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Coordinator	Approval Date:	Expiration Date:	
E-mail Address: Chancey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>4-15-14</u> Phone: (575) 397-8216			

* Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	South Mattix Battery	Facility Type	Battery
Surface Owner	Grobey	Mineral Owner	
		API No. 30-025-11111	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	15	24S	37E					Lea

Latitude N 32.21699° Longitude W 103.14929°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	15 bbls	Volume Recovered	1 bbls
Source of Release	External corrosion on a 2" circulating line from the circulating pump to the header	Date and Hour of Occurrence	04/10/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking-NMOCD, Jennifer Van Curen-BLM		
By Whom?	Jennifer Gilkey	Date and Hour	04/10/2014 @ 11:41 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

External corrosion on a 2" circulating line from the circulating pump to the header leaked 15 bbls of oil onto the ground. A vacuum truck recovered 1 bbls of oil and the line was repaired or replaced.

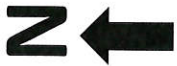
Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 40' x 20' on location. Remediation will be completed in accordance with an approved remediation plan from NMOCD and the BLM.

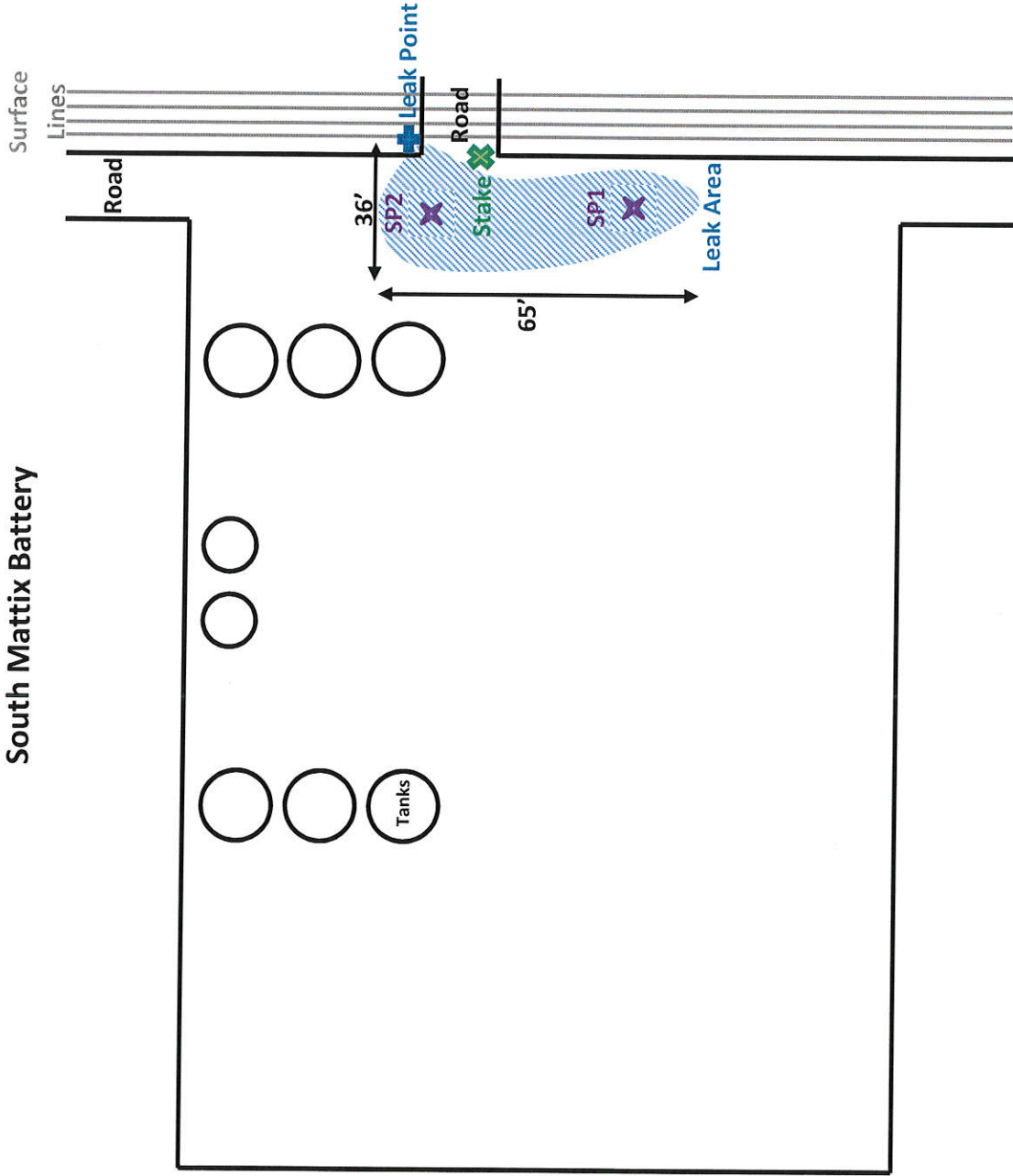
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger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

Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Coordinator	Approval Date:	Expiration Date:	
E-mail Address: Chancey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>11-3-14</u> Phone: (575) 397-8216			

* Attach Additional Sheets If Necessary



Oxy
South Mattix Battery



Section 15, T24S, R37E
Lea County, NM
N 32.21699° W 103.14929°

BBC International, Inc.	
Oxy	
South Mattix Battery	
Date: 04/21/2014	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014

Groundwater Plot

Oxy South Mattix Battery

County
Lea

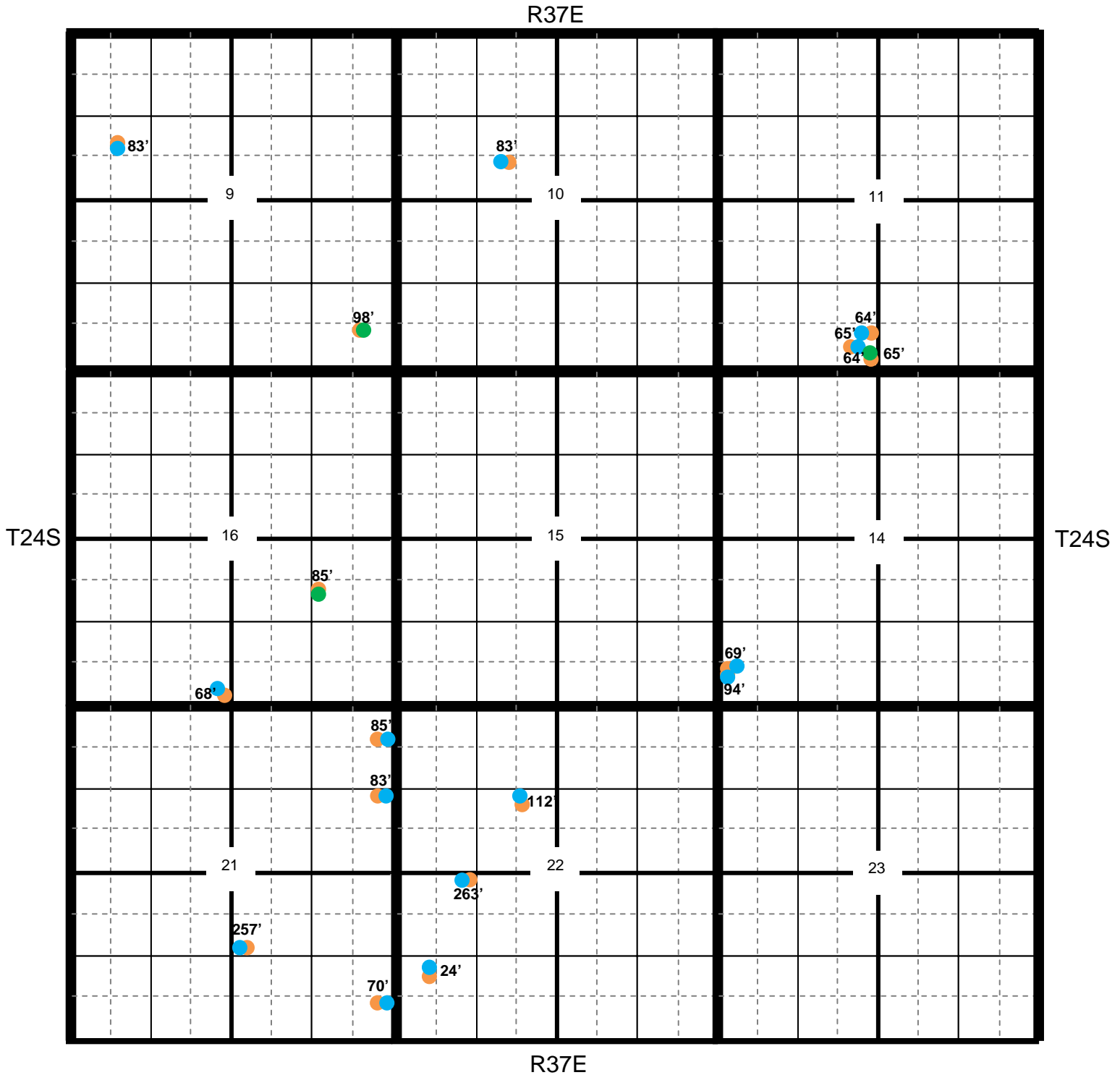
Unit Letter

Section
15

Township
24S

Range
37E

Trend Map 75'-100'



Location

OCD

USGS

SEO

All Databases

Oxy South Mattix Battery

County Lea Unit Letter Section 15 Township 24S Range 37E

Trend Map 75'-100'

1

2

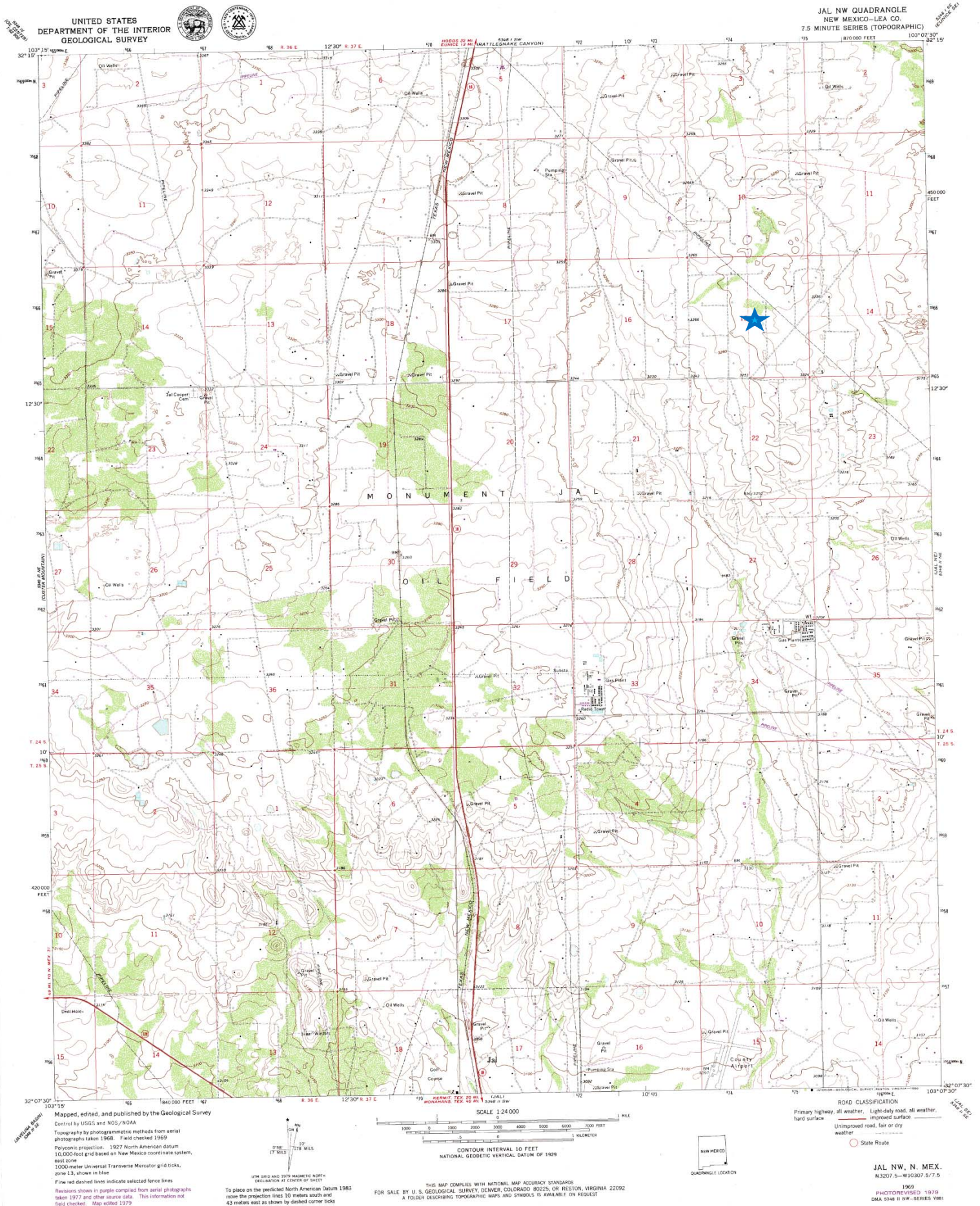
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Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

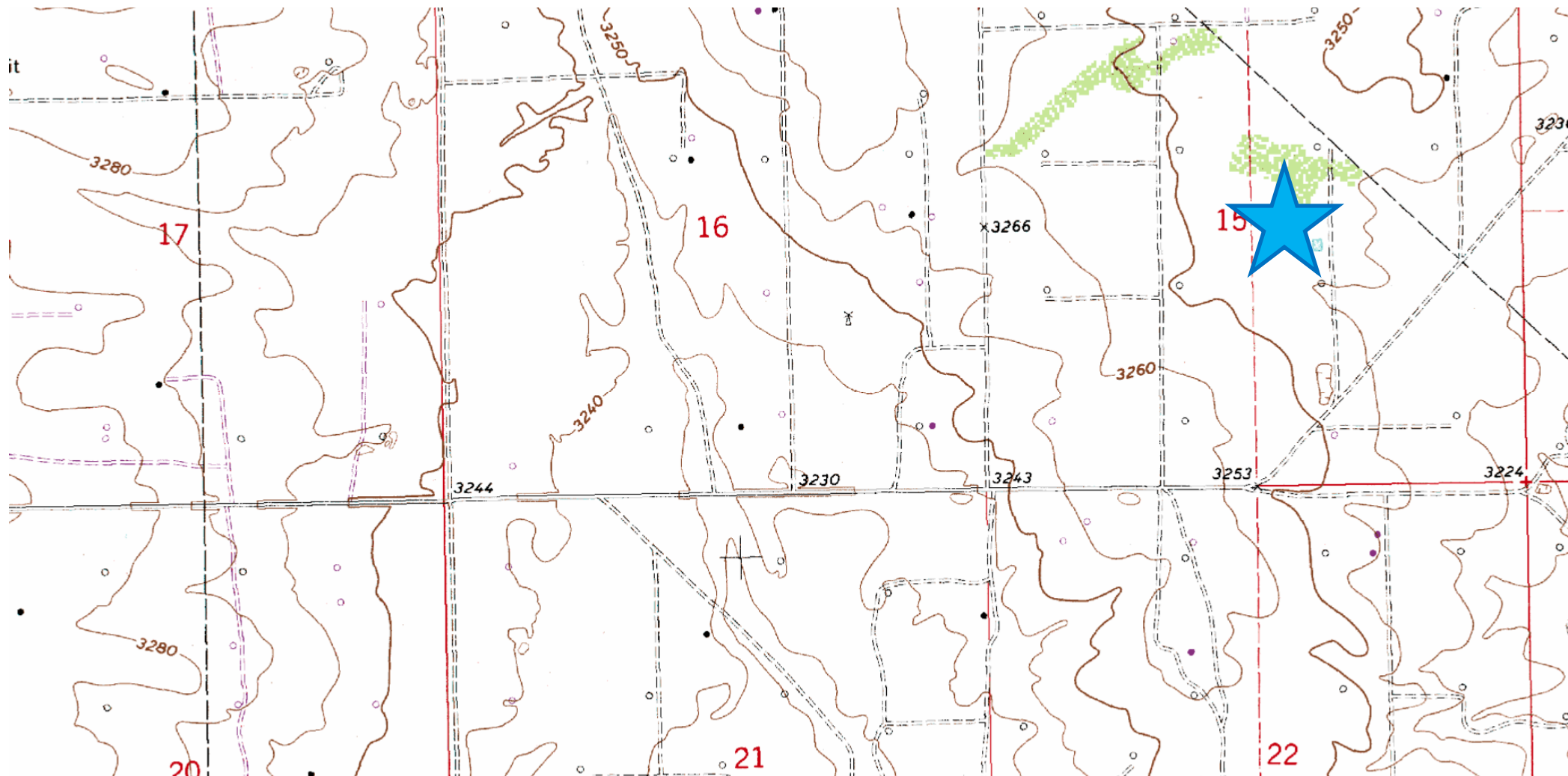
Oxy

South Mattix Battery



Oxy

South Mattix Battery



**Laboratory Analytical Results Summary
South Mattix Battery**

		Sample	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'
Analyte	Method	Date	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.263	1.70	5.16	<0.200	<0.050	<0.050
Toluene	BTEX 8021B		3.05	18.3	43.1	1.34	<0.050	<0.050
Ethylbenzene	BTEX 8021B		2.34	12.1	21.2	0.989	<0.050	<0.050
Total Xylenes	BTEX 8021B		9.64	44.8	83.6	4.26	<0.150	<0.150
Total BTEX	BTEX 8021B		15.3	76.9	153	6.59	<0.300	<0.300
Chloride	SM4500Cl-B		416	64.0	32.0	48.0	32.0	144
GRO	TPH 8015M		816	3200	6090	202	<50.0	<10.0
DRO	TPH 8015M		43300	9830	16800	1430	<50.0	<10.0

		Sample	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<2.00	0.129	<0.050	<0.050
Toluene	BTEX 8021B		3.70	15.3	2.19	0.103	<0.050
Ethylbenzene	BTEX 8021B		2.38	10.5	1.16	0.076	<0.050
Total Xylenes	BTEX 8021B		9.80	38.7	5.02	0.308	<0.150
Total BTEX	BTEX 8021B		15.9	64.6	8.50	0.486	<0.300
Chloride	SM4500Cl-B		512	48.0	16.0	16.0	160
GRO	TPH 8015M		579	1940	189	<100	<10.0
DRO	TPH 8015M		34400	6960	714	<100	<10.0

**Laboratory Analytical Results Summary
South Mattix Battery**

<i>Confirmation</i>		Sample	SP1 @ 4'	SP2 @ 2'
Analyte	Method	Date	10/16/14	10/16/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		64	48
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		589	471

May 05, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SOUTH MATTIX BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/29/14 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	SOUTH MATTIX BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: SP 1 @ SURFACE (H401272-01)

BTEX 8260B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.263	0.100	05/03/2014	ND	2.48	124	2.00	0.626	
Toluene*	3.05	0.100	05/03/2014	ND	2.13	107	2.00	5.57	
Ethylbenzene*	2.34	0.100	05/03/2014	ND	2.05	102	2.00	6.01	
Total Xylenes*	9.64	0.300	05/03/2014	ND	6.42	107	6.00	4.81	
Total BTEX	15.3	0.600	05/03/2014	ND					

Surrogate: Dibromofluoromethane 100 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 168 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	04/30/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	816	100	05/01/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	43300	100	05/01/2014	ND	210	105	200	2.67	

Surrogate: 1-Chlorooctane 178 % 65.2-140

Surrogate: 1-Chlorooctadecane 1200 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/29/2014
Reported: 05/05/2014
Project Name: SOUTH MATTIX BATTERY
Project Number: NONE GIVEN
Project Location: JAL, NM

Sampling Date: 04/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1 (H401272-02)

BTX 8260B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.70	0.500	05/03/2014	ND	2.48	124	2.00	0.626	
Toluene*	18.3	0.500	05/03/2014	ND	2.13	107	2.00	5.57	
Ethylbenzene*	12.1	0.500	05/03/2014	ND	2.05	102	2.00	6.01	
Total Xylenes*	44.8	1.50	05/03/2014	ND	6.42	107	6.00	4.81	
Total BTX	76.9	3.00	05/03/2014	ND					

Surrogate: Dibromofluoromethane 102 % 61.3-142
Surrogate: Toluene-d8 111 % 71.3-129
Surrogate: 4-Bromofluorobenzene 183 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/30/2014	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3200	100	05/01/2014	ND	190	94.9	200	1.34		
DRO >C10-C28	9830	100	05/01/2014	ND	210	105	200	2.67		

Surrogate: 1-Chlorooctane 210 % 65.2-140
Surrogate: 1-Chlorooctadecane 255 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/29/2014
Reported: 05/05/2014
Project Name: SOUTH MATTIX BATTERY
Project Number: NONE GIVEN
Project Location: JAL, NM

Sampling Date: 04/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 2 (H401272-03)

BTX 8260B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.16	1.00	05/03/2014	ND	2.48	124	2.00	0.626	
Toluene*	43.1	1.00	05/03/2014	ND	2.13	107	2.00	5.57	
Ethylbenzene*	21.2	1.00	05/03/2014	ND	2.05	102	2.00	6.01	
Total Xylenes*	83.6	3.00	05/03/2014	ND	6.42	107	6.00	4.81	
Total BTX	153	6.00	05/03/2014	ND					

Surrogate: Dibromofluoromethane 98.6 % 61.3-142
Surrogate: Toluene-d8 112 % 71.3-129
Surrogate: 4-Bromofluorobenzene 161 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/30/2014	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	6090	200	05/01/2014	ND	184	92.1	200	3.15	
DRO >C10-C28	16800	200	05/01/2014	ND	203	101	200	3.24	

Surrogate: 1-Chlorooctane 244 % 65.2-140
Surrogate: 1-Chlorooctadecane 304 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	SOUTH MATTIX BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: SP 1 @ 3 (H401272-04)

BTEx 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	05/03/2014	ND	2.48	124	2.00	0.626	
Toluene*	1.34	0.200	05/03/2014	ND	2.13	107	2.00	5.57	
Ethylbenzene*	0.989	0.200	05/03/2014	ND	2.05	102	2.00	6.01	
Total Xylenes*	4.26	0.600	05/03/2014	ND	6.42	107	6.00	4.81	
Total BTEX	6.59	1.20	05/03/2014	ND					

Surrogate: Dibromofluoromethane 101 % 61.3-142
Surrogate: Toluene-d8 101 % 71.3-129
Surrogate: 4-Bromofluorobenzene 129 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/30/2014	ND	400	100	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	202	50.0	05/02/2014	ND	184	92.1	200	3.15	
DRO >C10-C28	1430	50.0	05/02/2014	ND	203	101	200	3.24	

Surrogate: 1-Chlorooctane 107 % 65.2-140
Surrogate: 1-Chlorooctadecane 127 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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Hobbs NM, 88241
Fax To: (575) 397-0397

Received: 04/29/2014
Reported: 05/05/2014
Project Name: SOUTH MATTIX BATTERY
Project Number: NONE GIVEN
Project Location: JAL, NM

Sampling Date: 04/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 4 (H401272-05)

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2014	ND	2.48	124	2.00	0.626	
Toluene*	<0.050	0.050	05/03/2014	ND	2.13	107	2.00	5.57	
Ethylbenzene*	<0.050	0.050	05/03/2014	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	05/03/2014	ND	6.42	107	6.00	4.81	
Total BTX	<0.300	0.300	05/03/2014	ND					

Surrogate: Dibromofluoromethane 102 % 61.3-142
Surrogate: Toluene-d8 98.6 % 71.3-129
Surrogate: 4-Bromofluorobenzene 113 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/30/2014	ND	400	100	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	<50.0	50.0	05/01/2014	ND	184	92.1	200	3.15	
DRO >C10-C28	<50.0	50.0	05/01/2014	ND	203	101	200	3.24	

Surrogate: 1-Chlorooctane 104 % 65.2-140
Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/29/2014
Reported: 05/05/2014
Project Name: SOUTH MATTIX BATTERY
Project Number: NONE GIVEN
Project Location: JAL, NM

Sampling Date: 04/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 5 (H401272-06)

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2014	ND	2.48	124	2.00	0.626	
Toluene*	<0.050	0.050	05/03/2014	ND	2.13	107	2.00	5.57	
Ethylbenzene*	<0.050	0.050	05/03/2014	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	05/03/2014	ND	6.42	107	6.00	4.81	
Total BTX	<0.300	0.300	05/03/2014	ND					

Surrogate: Dibromofluoromethane 97.7 % 61.3-142
Surrogate: Toluene-d8 96.6 % 71.3-129
Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/30/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2014	ND	184	92.1	200	3.15	
DRO >C10-C28	<10.0	10.0	05/01/2014	ND	203	101	200	3.24	

Surrogate: 1-Chlorooctane 110 % 65.2-140
Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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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:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	SOUTH MATTIX BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: SP 2 @ SURFACE (H401272-07)

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	05/03/2014	ND	2.48	124	2.00	0.626	
Toluene*	3.70	0.500	05/03/2014	ND	2.13	107	2.00	5.57	
Ethylbenzene*	2.38	0.500	05/03/2014	ND	2.05	102	2.00	6.01	
Total Xylenes*	9.80	1.50	05/03/2014	ND	6.42	107	6.00	4.81	
Total BTX	15.9	3.00	05/03/2014	ND					

Surrogate: Dibromofluoromethane 97.8 % 61.3-142
Surrogate: Toluene-d8 95.3 % 71.3-129
Surrogate: 4-Bromofluorobenzene 123 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	04/30/2014	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	579	200	05/01/2014	ND	184	92.1	200	3.15		
DRO >C10-C28	34400	200	05/01/2014	ND	203	101	200	3.24		

Surrogate: 1-Chlorooctane 130 % 65.2-140
Surrogate: 1-Chlorooctadecane 956 % 63.6-154

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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: 04/29/2014
Reported: 05/05/2014
Project Name: SOUTH MATTIX BATTERY
Project Number: NONE GIVEN
Project Location: JAL, NM

Sampling Date: 04/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1 (H401272-08)

BTEx 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	05/03/2014	ND	2.48	124	2.00	0.626	
Toluene*	15.3	2.00	05/03/2014	ND	2.13	107	2.00	5.57	
Ethylbenzene*	10.5	2.00	05/03/2014	ND	2.05	102	2.00	6.01	
Total Xylenes*	38.7	6.00	05/03/2014	ND	6.42	107	6.00	4.81	
Total BTEX	64.6	12.0	05/03/2014	ND					

Surrogate: Dibromofluoromethane 101 % 61.3-142
Surrogate: Toluene-d8 101 % 71.3-129
Surrogate: 4-Bromofluorobenzene 122 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/30/2014	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1940	100	05/01/2014	ND	184	92.1	200	3.15		
DRO >C10-C28	6960	100	05/01/2014	ND	203	101	200	3.24		

Surrogate: 1-Chlorooctane 177 % 65.2-140
Surrogate: 1-Chlorooctadecane 220 % 63.6-154

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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: 04/29/2014
Reported: 05/05/2014
Project Name: SOUTH MATTIX BATTERY
Project Number: NONE GIVEN
Project Location: JAL, NM

Sampling Date: 04/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 2 (H401272-09)

BTX 8260B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.129	0.100	05/03/2014	ND	2.48	124	2.00	0.626	
Toluene*	2.19	0.100	05/03/2014	ND	2.13	107	2.00	5.57	
Ethylbenzene*	1.16	0.100	05/03/2014	ND	2.05	102	2.00	6.01	
Total Xylenes*	5.02	0.300	05/03/2014	ND	6.42	107	6.00	4.81	
Total BTX	8.50	0.600	05/03/2014	ND					

Surrogate: Dibromofluoromethane 97.0 % 61.3-142
Surrogate: Toluene-d8 102 % 71.3-129
Surrogate: 4-Bromofluorobenzene 148 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/30/2014	ND	400	100	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	189	100	05/01/2014	ND	184	92.1	200	3.15	
DRO >C10-C28	714	100	05/01/2014	ND	203	101	200	3.24	

Surrogate: 1-Chlorooctane 90.1 % 65.2-140
Surrogate: 1-Chlorooctadecane 147 % 63.6-154

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Analytical Results For:

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Cliff Brunson
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Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	SOUTH MATTIX BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: SP 2 @ 3 (H401272-10)

BTEx 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2014	ND	2.48	124	2.00	0.626	
Toluene*	0.103	0.050	05/03/2014	ND	2.13	107	2.00	5.57	
Ethylbenzene*	0.076	0.050	05/03/2014	ND	2.05	102	2.00	6.01	
Total Xylenes*	0.308	0.150	05/03/2014	ND	6.42	107	6.00	4.81	
Total BTEX	0.486	0.300	05/03/2014	ND					

Surrogate: Dibromofluoromethane 97.8 % 61.3-142
Surrogate: Toluene-d8 98.5 % 71.3-129
Surrogate: 4-Bromofluorobenzene 119 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/30/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	05/01/2014	ND	184	92.1	200	3.15	
DRO >C10-C28	<100	100	05/01/2014	ND	203	101	200	3.24	

Surrogate: 1-Chlorooctane 108 % 65.2-140
Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/29/2014
Reported: 05/05/2014
Project Name: SOUTH MATTIX BATTERY
Project Number: NONE GIVEN
Project Location: JAL, NM

Sampling Date: 04/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 4 (H401272-11)

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2014	ND	2.48	124	2.00	0.626	
Toluene*	<0.050	0.050	05/03/2014	ND	2.13	107	2.00	5.57	
Ethylbenzene*	<0.050	0.050	05/03/2014	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	05/03/2014	ND	6.42	107	6.00	4.81	
Total BTX	<0.300	0.300	05/03/2014	ND					

Surrogate: Dibromofluoromethane 103 % 61.3-142
Surrogate: Toluene-d8 99.3 % 71.3-129
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/30/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2014	ND	184	92.1	200	3.15	
DRO >C10-C28	<10.0	10.0	05/01/2014	ND	203	101	200	3.24	

Surrogate: 1-Chlorooctane 104 % 65.2-140
Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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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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

[illegible]

CARDINAL LABORATORIES

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

CHAIN OF CUSTODY AND ANALYSIS REQUEST

[illegible]



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

October 20, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SOUTH MATTIX BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/17/14 9:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/17/2014
Reported: 10/20/2014
Project Name: SOUTH MATTIX BATTERY
Project Number: NONE GIVEN
Project Location: JAL, NM

Sampling Date: 10/16/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 4' / CONFIRMATION (H403201-01)

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	10/17/2014	ND	1.74	86.8	2.00	4.70	
Toluene*	<0.050	0.050	10/17/2014	ND	1.73	86.6	2.00	4.59	
Ethylbenzene*	<0.050	0.050	10/17/2014	ND	1.74	87.0	2.00	4.74	
Total Xylenes*	<0.150	0.150	10/17/2014	ND	5.14	85.7	6.00	4.45	
Total BTEX	<0.300	0.300	10/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/17/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/17/2014	ND	188	93.9	200	0.805	
DRO >C10-C28	589	10.0	10/17/2014	ND	190	95.0	200	2.86	

Surrogate: 1-Chlorooctane 111 % 47.2-157

Surrogate: 1-Chlorooctadecane 145 % 52.1-176

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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:	10/17/2014	Sampling Date:	10/16/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	SOUTH MATTIX BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: SP 2 @ 2' / CONFIRMATION (H403201-02)

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	10/17/2014	ND	1.74	86.8	2.00	4.70	
Toluene*	<0.050	0.050	10/17/2014	ND	1.73	86.6	2.00	4.59	
Ethylbenzene*	<0.050	0.050	10/17/2014	ND	1.74	87.0	2.00	4.74	
Total Xylenes*	<0.150	0.150	10/17/2014	ND	5.14	85.7	6.00	4.45	
Total BTX	<0.300	0.300	10/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/17/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/17/2014	ND	188	93.9	200	0.805	
DRO >C10-C28	471	10.0	10/17/2014	ND	190	95.0	200	2.86	

Surrogate: 1-Chlorooctane 111 % 47.2-157

Surrogate: 1-Chlorooctadecane 127 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

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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Celey D. Keene, Lab Director/Quality Manager



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

#54

Kathy Purvis

From: Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>
Sent: Tuesday, July 01, 2014 2:42 PM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OCD Concurrence with Various OXY Remediation Plans

Cliff

The OCD concurs with the :

- 1) OXY-State C Trac 11 Battery-Remediation Plan
- 2) OXY-Fred Turner JR B Battery-Remediation Plan
- 3) OXY-Federal 27 #8-Remediation Plan
- 4) OXY-MLMU #98-Remediation Plan
- 5) OXY-South Mattix Battery-Remediation Plan
- 6) OXY-MLMU Satellite #2-Remediation Plan
- 7) OXY-MLMU #71-Remediation Plan

Approval of the Red Tank 35 Fed #3 Remediation Plan is dependent on your response regarding the excavation depth at SP2 and SP3. Thanks Cliff.

Geoffrey Leking
Environmental Specialist
NMOCD-Hobbs
1625 N. French Drive
Hobbs, NM 88240
Office: (575) 393-6161 Ext. 113
Cell: (575) 399-2990
email: geoffreyr.leting@state.nm.us

From: Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Thursday, June 26, 2014 8:30 PM
To: Leking, Geoffrey R, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY-State C Trac 11 Battery-Remediation Plan

Geoff,

This e-mail is to confirm our conversation on June 19, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 4 feet in the area around SP1, 1 foot in the areas of SP2 and SP3, 2 feet in the area of SP4, and 1 foot in the areas of SP5 and SP6 as depicted on the attached site diagram. Then the site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
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Kathy Purvis

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Thursday, June 26, 2014 8:20 PM
To: Jennifer Van Curen
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY-South Mattix Battery-Remediation Plan
Attachments: Remediation Packet, South Mattix Battery.pdf

Jennifer,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Geoff Leking of the NMOCD. Oxy will excavate to a depth of 3 feet in the area around SP1 and excavate to a depth of 1 foot in the area of SP2 as depicted on the attached site diagram. Then the site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated. If you have any questions, please let us know.

Thanks, Cliff

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