

Closure Report

APPROVED

Site Description

Site Name:	MK Stewart Tank Battery
Company:	Oxy Permian Ltd.
Legal Description:	U/L P, Section 28, T23S, R37E
County:	Lea County, NM
GPS Coordinates:	N 32.27069° W 103.16246°

Release Data

Date of Release:	02/20/2016
Type of Release:	Oil and produced water
Source of Release:	Hole in fire tube on heater treater
Volume of Release:	70 bbls oil, 5 bbls produced water
Volume Recovered:	37 bbls

Remediation Specifications

Remediation Parameters:	Excavate the areas around SP1 & SP2 to a depth of 1 ft. In the area of SP3, excavate to a depth of 3 ft or as practicable due to the multi-line header which poses potential safety issues. Backfill the site with clean soil.	
Remediation Activities:	07/11/2016 to 07/19/2016	
Plan Sent to OCD:	04/08/2016	Email from Cliff Brunson to Jamie Keyes
OCD Approval of Plan:	04/11/2016	Email from Jamie Keyes to Cliff Brunson
Plan Sent to BLM:	04/08/2016	Email from Cliff Brunson to Dara Glass
BLM Approval of Plan:	06/01/2016	Email from Dara Glass to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 03/09/2016
Final C-141	Signed 07/26/2016
Site Diagram	March 2016
Groundwater Plot	75'-100'
TOPO Maps	March 2016
Lab Summary	03/07/2016
Lab Analysis	03/07/2016
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.

08/01/2016

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	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	MK Stewart Tank Battery	Facility Type	Battery

Surface Owner	BLM	Mineral Owner		API No.	30-025-22432
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	28	23S	37E					Lea County, NM

Latitude N 32.27069° Longitude W 103.16246°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	70 bbls oil, 5 bbls produced water	Volume Recovered	37 bbls
Source of Release	Hole in fire tube on heater treater	Date and Hour of Occurrence	02/20/2016	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?	Jamie Keyes-NMOCD, Shelly Tucker-BLM		
By Whom?	Cliff Brunson @ BBC International	Date and Hour	02/21/2016 @ 4:25 pm		
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.*

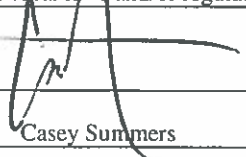
Describe Cause of Problem and Remedial Action Taken.*

A hole in the fire tube caused 70 bbls of oil and 5 bbls of produced water to spill inside the berm. A vacuum truck recovered 27 bbls of oil and the fire tube was repaired.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 140' x 20' on location inside the berm. Remediation will be completed in accordance with a remediation plan approved by 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: Casey Summers		Approved by Environmental Specialist:	
Title: NM Environmental Advisor		Approval Date:	Expiration Date:
E-mail Address: Casey.Summers@oxy.com		Conditions of Approval:	
Date: 3-9-16 Phone: (575) 513-8289		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

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	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	MK Stewart Tank Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-025-22432

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	28	23S	37E					Lea County, NM

Latitude N 32.27069° Longitude W 103.16246°

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Source of Release	Hole in fire tube on heater treater	Date and Hour of Occurrence	02/20/2016	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?	Jamie Keyes-NMOCD, Shelly Tucker-BLM		
By Whom?	Cliff Brunson @ BBC International	Date and Hour	02/21/2016 @ 4:25 pm		
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.*

A hole in the fire tube caused 70 bbls of oil and 5 bbls of produced water to spill inside the berm. A vacuum truck recovered 27 bbls of oil and the fire tube was repaired.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 140' x 20' on location inside the berm. Remediation was completed in accordance with a remediation plan approved by Jamie Keyes of NMOCD via email on 04/11/2016 and by Dara Glass of the BLM via email on 06/01/2016.

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.

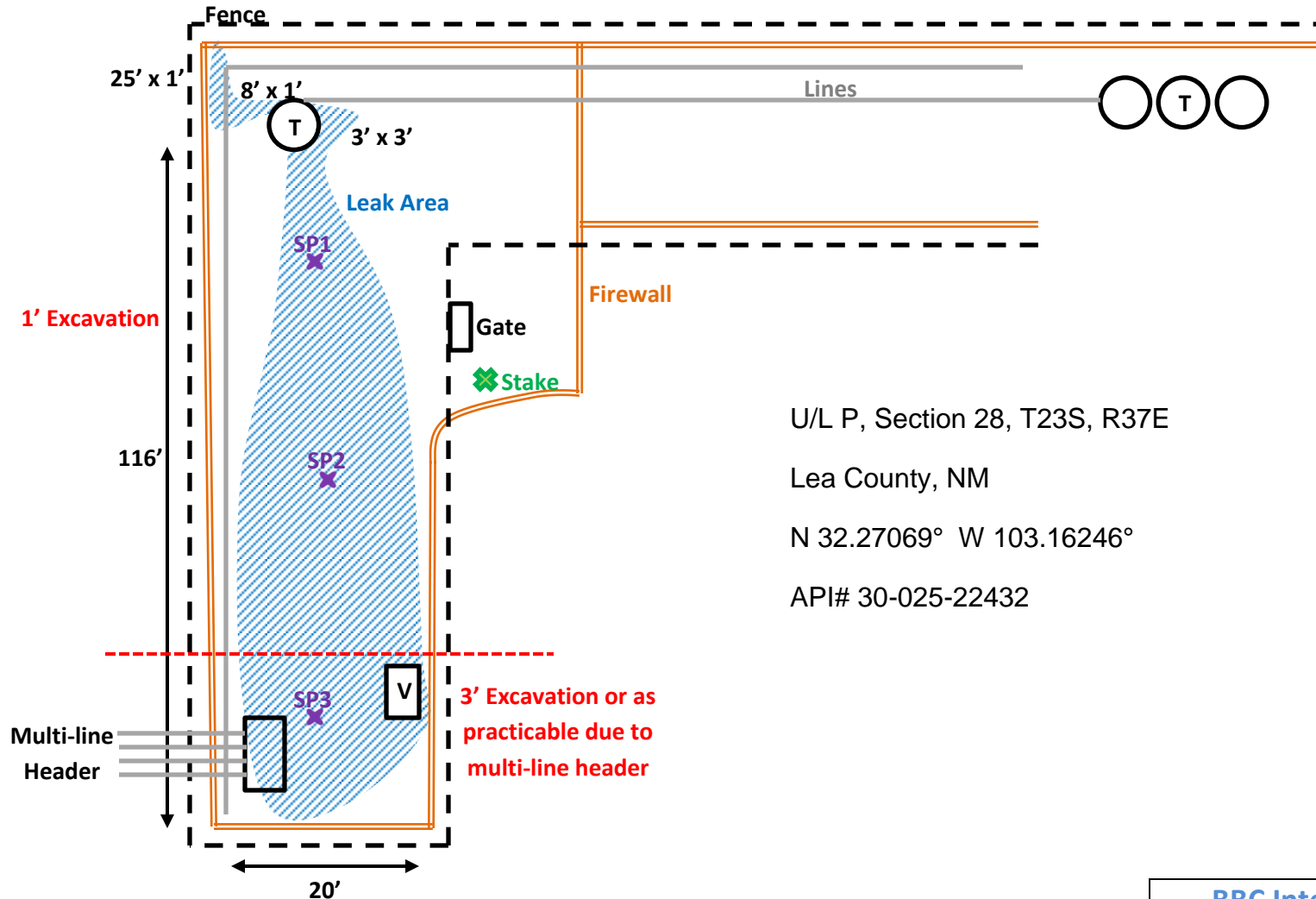
Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Casey Summers		Approved by Environmental Specialist: 	
Title: NM Environmental Advisor		Approval Date: 08/01/2016	Expiration Date: ///
E-mail Address: Casey_Summers@oxy.com	Conditions of Approval: ///		Attached <input type="checkbox"/> IRP 4206
Date: 7-26-16	Phone: (575) 513-8289		

* Attach Additional Sheets If Necessary



Oxy

MK Stewart Tank Battery (02/20/2016)



U/L P, Section 28, T23S, R37E

Lea County, NM

N 32.27069° W 103.16246°

API# 30-025-22432

BBC International, Inc.

Oxy

MK Stewart Tank Battery

Date: 03/08/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016

Groundwater Plot

Oxy MK Stewart Tank Battery

County
Lea

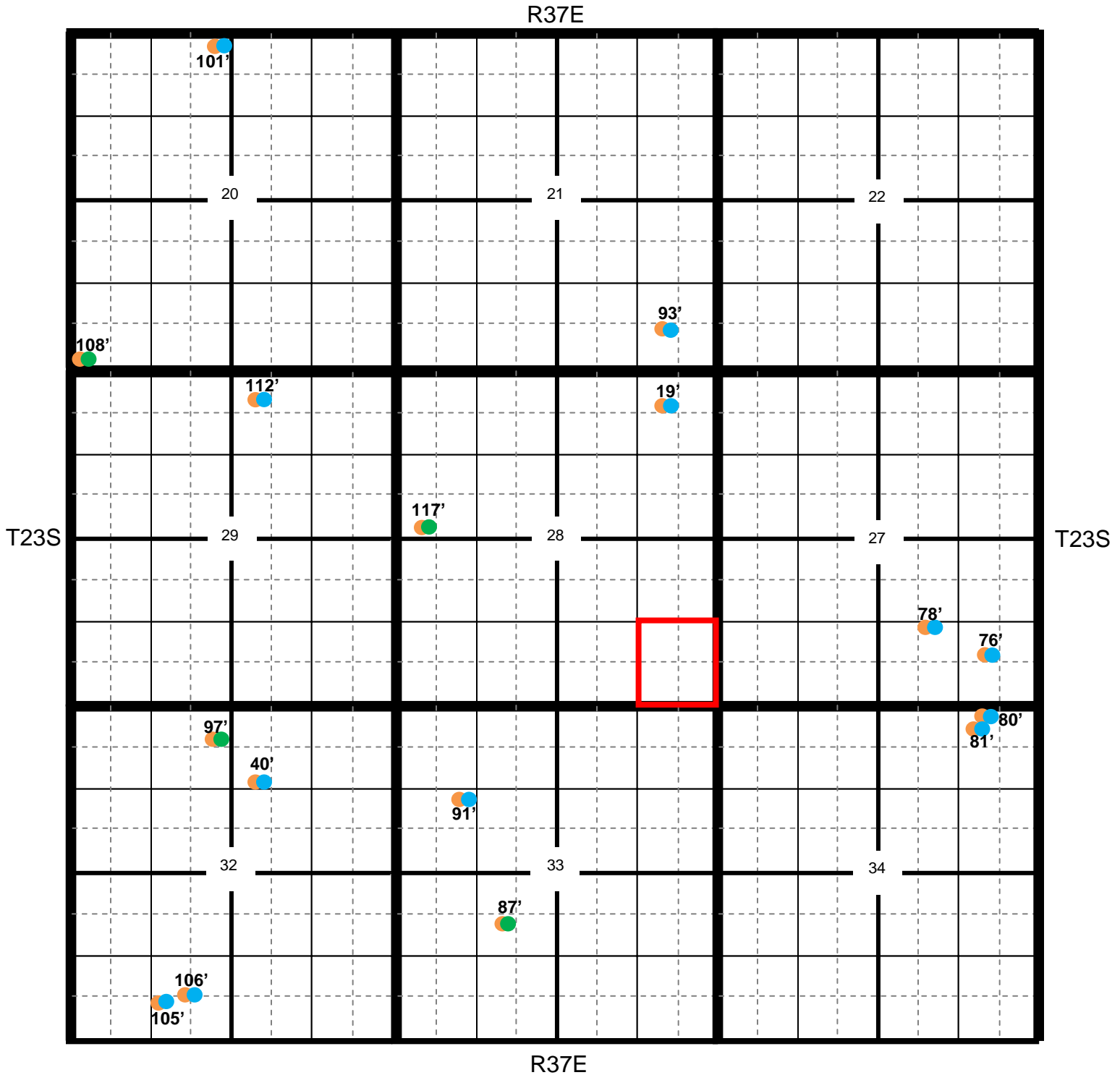
Unit Letter
P

Section
28

Township
23S

Range
37E

Trend Map 75'-100'



Location

OCD

USGS

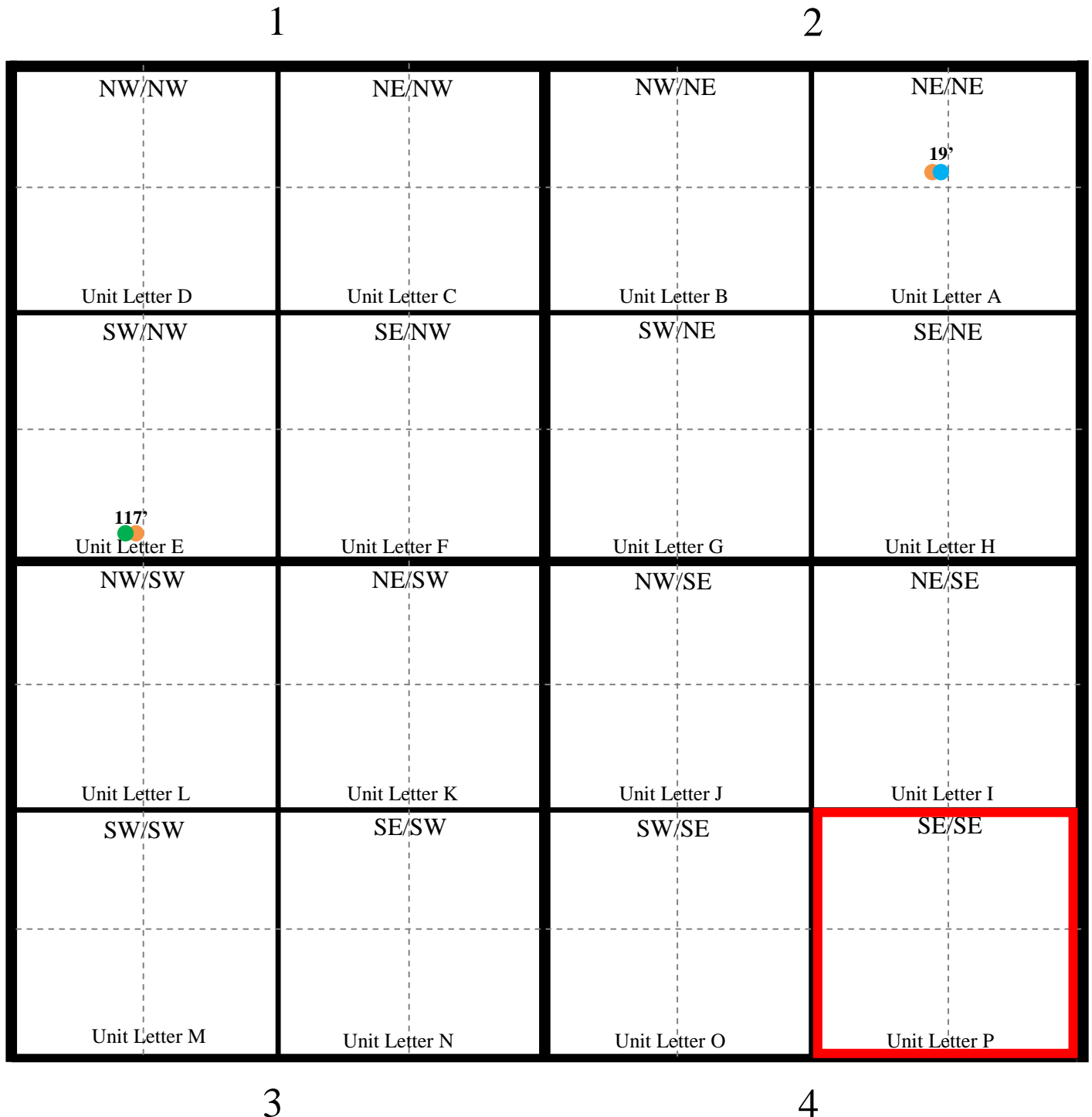
SEO

All Databases

Oxy MK Stewart Tank Battery

County Lea Unit Letter P Section 28 Township 23S Range 37E

Trend Map 75'-100'



Oxy



ROAD CLASSIFICATION

highway, all weather, improved surface	Light-duty road
major highway, all weather, improved surface	Unimproved road
minor highway, all weather, improved surface	weather

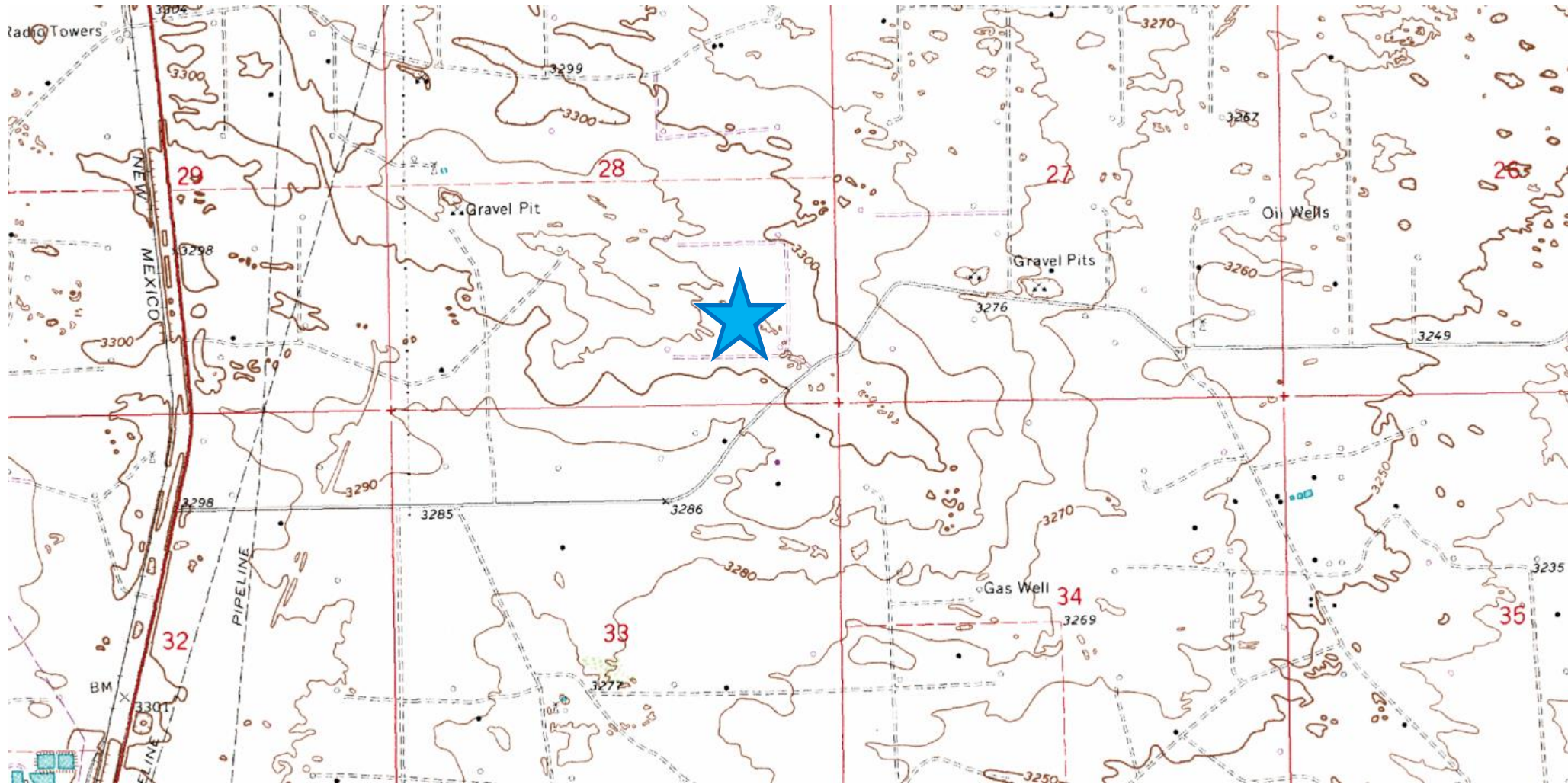
 State Route

RATTLESNAKE CANYON, N. MEX.

1969
PHOTOREVISED 1979
DMA 5348 I SW-SERIES V661

Oxy

MK Stewart Tank Battery



**Laboratory Analytical Results Summary
MK Stewart Tank Battery**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 6'	SP1 @ 7'
Analyte	Method	Date	3/7/16	3/7/16	3/7/16	3/7/16	3/7/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		1.64	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		4.87	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		15.5	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		22	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		1200	592	560	<16.0	<16.0
GRO	TPH 8015M		926	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		5830	<10.0	<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
Analyte	Method	Date	3/7/16	3/7/16	3/7/16	3/7/16	3/7/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		1010	192	176	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	227	<10.0	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 4'	SP3 @ 6'
Analyte	Method	Date	3/7/16	3/7/16	3/7/16	3/7/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	3.78	<0.050	<0.050
Toluene	BTEX 8021B		1.3	56.9	<0.050	<0.050
Ethylbenzene	BTEX 8021B		3.88	75.8	0.202	<0.050
Total Xylenes	BTEX 8021B		11.8	195	0.665	<0.150
Total BTEX	BTEX 8021B		17	332	0.867	<0.300
Chloride	SM4500Cl-B		1460	<16.0	176	<16.0
GRO	TPH 8015M		473	7020	40	<10.0
DRO	TPH 8015M		3630	24800	648	<10.0

March 18, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MK STEWART TB

Enclosed are the results of analyses for samples received by the laboratory on 03/11/16 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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: 03/11/2016
Reported: 03/18/2016
Project Name: MK STEWART TB
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/07/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H600538-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/15/2016	ND	2.00	99.8	2.00	1.29	
Toluene*	1.64	0.500	03/15/2016	ND	1.93	96.4	2.00	1.42	
Ethylbenzene*	4.87	0.500	03/15/2016	ND	1.72	85.8	2.00	0.785	
Total Xylenes*	15.5	1.50	03/15/2016	ND	5.26	87.7	6.00	0.123	
Total BTX	22.0	3.00	03/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	03/17/2016	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	926	50.0	03/14/2016	ND	220	110	200	4.67		
DRO >C10-C28	5830	50.0	03/14/2016	ND	236	118	200	7.31		

Surrogate: 1-Chlorooctane 201 % 35-147

Surrogate: 1-Chlorooctadecane 159 % 28-171

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: 03/11/2016
Reported: 03/18/2016
Project Name: MK STEWART TB
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/07/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 3' (H600538-02)

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	03/15/2016	ND	2.00	99.8	2.00	1.29	
Toluene*	<0.050	0.050	03/15/2016	ND	1.93	96.4	2.00	1.42	
Ethylbenzene*	<0.050	0.050	03/15/2016	ND	1.72	85.8	2.00	0.785	
Total Xylenes*	<0.150	0.150	03/15/2016	ND	5.26	87.7	6.00	0.123	
Total BTEX	<0.300	0.300	03/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	03/17/2016	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	03/14/2016	ND	220	110	200	4.67	
DRO >C10-C28	<10.0	10.0	03/14/2016	ND	236	118	200	7.31	

Surrogate: 1-Chlorooctane 106 % 35-147

Surrogate: 1-Chlorooctadecane 114 % 28-171

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: 03/11/2016
 Reported: 03/18/2016
 Project Name: MK STEWART TB
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/07/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 5' (H600538-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2016	ND	2.00	99.8	2.00	1.29	
Toluene*	<0.050	0.050	03/15/2016	ND	1.93	96.4	2.00	1.42	
Ethylbenzene*	<0.050	0.050	03/15/2016	ND	1.72	85.8	2.00	0.785	
Total Xylenes*	<0.150	0.150	03/15/2016	ND	5.26	87.7	6.00	0.123	
Total BTEx	<0.300	0.300	03/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	03/17/2016	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	03/14/2016	ND	220	110	200	4.67	
DRO >C10-C28	<10.0	10.0	03/14/2016	ND	236	118	200	7.31	

Surrogate: 1-Chlorooctane 98.9 % 35-147

Surrogate: 1-Chlorooctadecane 83.9 % 28-171

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:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/18/2016	Sampling Type:	Soil
Project Name:	MK STEWART TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 6' (H600538-04)

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	03/15/2016	ND	2.00	99.8	2.00	1.29	
Toluene*	<0.050	0.050	03/15/2016	ND	1.93	96.4	2.00	1.42	
Ethylbenzene*	<0.050	0.050	03/15/2016	ND	1.72	85.8	2.00	0.785	
Total Xylenes*	<0.150	0.150	03/15/2016	ND	5.26	87.7	6.00	0.123	
Total BTX	<0.300	0.300	03/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.6-140

Chloride, SM4500CI-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	03/17/2016	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	03/14/2016	ND	220	110	200	4.67	
DRO >C10-C28	<10.0	10.0	03/14/2016	ND	236	118	200	7.31	

Surrogate: 1-Chlorooctane 94.0 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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: 03/11/2016
Reported: 03/18/2016
Project Name: MK STEWART TB
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/07/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 7' (H600538-05)

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	03/15/2016	ND	2.00	99.8	2.00	1.29	
Toluene*	<0.050	0.050	03/15/2016	ND	1.93	96.4	2.00	1.42	
Ethylbenzene*	<0.050	0.050	03/15/2016	ND	1.72	85.8	2.00	0.785	
Total Xylenes*	<0.150	0.150	03/15/2016	ND	5.26	87.7	6.00	0.123	
Total BTEX	<0.300	0.300	03/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.6-140

Chloride, SM4500CI-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	03/17/2016	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	03/14/2016	ND	220	110	200	4.67	
DRO >C10-C28	<10.0	10.0	03/14/2016	ND	236	118	200	7.31	

Surrogate: 1-Chlorooctane 98.4 % 35-147

Surrogate: 1-Chlorooctadecane 97.8 % 28-171

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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: 03/11/2016
Reported: 03/18/2016
Project Name: MK STEWART TB
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/07/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H600538-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2016	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	03/15/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/15/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/15/2016	ND	5.30	88.4	6.00	1.65	
Total BTX	<0.300	0.300	03/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	03/17/2016	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	03/14/2016	ND	220	110	200	4.67	
DRO >C10-C28	<10.0	10.0	03/14/2016	ND	236	118	200	7.31	

Surrogate: 1-Chlorooctane 97.2 % 35-147

Surrogate: 1-Chlorooctadecane 87.6 % 28-171

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Received: 03/11/2016
Reported: 03/18/2016
Project Name: MK STEWART TB
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/07/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 2' (H600538-07)

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	03/15/2016	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	03/15/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/15/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/15/2016	ND	5.30	88.4	6.00	1.65	
Total BTX	<0.300	0.300	03/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/17/2016	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	03/14/2016	ND	220	110	200	4.67	
DRO >C10-C28	227	10.0	03/14/2016	ND	236	118	200	7.31	

Surrogate: 1-Chlorooctane 108 % 35-147

Surrogate: 1-Chlorooctadecane 117 % 28-171

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Received: 03/11/2016
Reported: 03/18/2016
Project Name: MK STEWART TB
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/07/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 3' (H600538-08)

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	03/15/2016	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	03/15/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/15/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/15/2016	ND	5.30	88.4	6.00	1.65	
Total BTX	<0.300	0.300	03/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/17/2016	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	03/14/2016	ND	220	110	200	4.67	
DRO >C10-C28	<10.0	10.0	03/14/2016	ND	236	118	200	7.31	

Surrogate: 1-Chlorooctane 95.3 % 35-147

Surrogate: 1-Chlorooctadecane 98.2 % 28-171

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Received: 03/11/2016
Reported: 03/18/2016
Project Name: MK STEWART TB
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/07/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 4' (H600538-09)

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	03/15/2016	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	03/15/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/15/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/15/2016	ND	5.30	88.4	6.00	1.65	
Total BTX	<0.300	0.300	03/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.6-140

Chloride, SM4500CI-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	03/17/2016	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	03/14/2016	ND	220	110	200	4.67	
DRO >C10-C28	<10.0	10.0	03/14/2016	ND	236	118	200	7.31	

Surrogate: 1-Chlorooctane 93.0 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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Received:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/18/2016	Sampling Type:	Soil
Project Name:	MK STEWART TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 5' (H600538-10)

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	03/15/2016	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	03/15/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/15/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/15/2016	ND	5.30	88.4	6.00	1.65	
Total BTEx	<0.300	0.300	03/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.6-140

Chloride, SM4500CI-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	03/17/2016	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	03/14/2016	ND	220	110	200	4.67	
DRO >C10-C28	<10.0	10.0	03/14/2016	ND	236	118	200	7.31	

Surrogate: 1-Chlorooctane 84.0 % 35-147

Surrogate: 1-Chlorooctadecane 94.4 % 28-171

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Fax To: (575) 397-0397

Received: 03/11/2016
Reported: 03/18/2016
Project Name: MK STEWART TB
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/07/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H600538-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	03/15/2016	ND	2.03	102	2.00	1.63	
Toluene*	1.30	0.200	03/15/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	3.88	0.200	03/15/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	11.8	0.600	03/15/2016	ND	5.30	88.4	6.00	1.65	
Total BTEX	17.0	1.20	03/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	03/17/2016	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	473	50.0	03/14/2016	ND	220	110	200	4.67	
DRO >C10-C28	3630	50.0	03/14/2016	ND	236	118	200	7.31	

Surrogate: 1-Chlorooctane 142 % 35-147

Surrogate: 1-Chlorooctadecane 138 % 28-171

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Received: 03/11/2016
Reported: 03/18/2016
Project Name: MK STEWART TB
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/07/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 3' (H600538-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.78	2.50	03/15/2016	ND	2.03	102	2.00	1.63	
Toluene*	56.9	5.00	03/15/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	75.8	5.00	03/15/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	195	15.0	03/15/2016	ND	5.30	88.4	6.00	1.65	
Total BTEX	332	27.5	03/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-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	03/17/2016	ND	432	108	400	3.77	

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	7020	100	03/14/2016	ND	220	110	200	4.67	
DRO >C10-C28	24800	100	03/14/2016	ND	236	118	200	7.31	

Surrogate: 1-Chlorooctane 284 % 35-147

Surrogate: 1-Chlorooctadecane 462 % 28-171

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Fax To: (575) 397-0397

Received:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/18/2016	Sampling Type:	Soil
Project Name:	MK STEWART TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 4' (H600538-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2016	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	03/16/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	0.202	0.050	03/16/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	0.665	0.150	03/16/2016	ND	5.30	88.4	6.00	1.65	
Total BTX	0.867	0.300	03/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/17/2016	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	40.0	10.0	03/14/2016	ND	220	110	200	4.67	
DRO >C10-C28	648	10.0	03/14/2016	ND	236	118	200	7.31	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 96.1 % 28-171

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Received: 03/11/2016
Reported: 03/18/2016
Project Name: MK STEWART TB
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/07/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 6' (H600538-14)

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	03/16/2016	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	03/16/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/16/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/16/2016	ND	5.30	88.4	6.00	1.65	
Total BTX	<0.300	0.300	03/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

Chloride, SM4500CI-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	03/17/2016	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	03/14/2016	ND	220	110	200	4.67	
DRO >C10-C28	<10.0	10.0	03/14/2016	ND	236	118	200	7.31	

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

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*=Accredited Analyte

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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.
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

Kathy Purvis

From: Keyes, Jamie, EMNRD <Jamie.Keyes@state.nm.us>
Sent: Monday, April 11, 2016 7:16 AM
To: Cliff Brunson; Shelly Tucker
Cc: Casey Summers; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY-MK Stewart Tank Battery-Remediation Plan

Good morning,

The work plan is approved as is.

Thank you,

Jamie

From: Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Friday, April 08, 2016 4:25 PM
To: Keyes, Jamie, EMNRD; Shelly Tucker
Cc: Casey Summers; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY-MK Stewart Tank Battery-Remediation Plan

Jamie,

This e-mail is to confirm our discussion concerning the remediation plan for the Oxy MK Stewart Tank Battery release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Shelly,

Oxy is also requesting the BLM's approval of this remediation plan as well. If you would please respond via email with your approval, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
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Phone: (575) 397-6388
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Version: 2015.0.6189 / Virus Database: 4545/11988 - Release Date: 04/08/16

From: [Cliff Brunson](#)
To: [Kathy Purvis](#)
Subject: FW: FW: OXY-MK Stewart Tank Battery-Remediation Plan
Date: Thursday, June 30, 2016 3:56:45 PM

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
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From: Glass, Dara [mailto:djglass@blm.gov]
Sent: Wednesday, June 1, 2016 11:48 AM
To: Cliff Brunson <cbrunson@bbcinternational.com>; casey_summers@oxy.com
Cc: Shelly Tucker <stucker@blm.gov>; Keyes, Jamie, EMNRD <jamie.keyes@state.nm.us>
Subject: Re: FW: OXY-MK Stewart Tank Battery-Remediation Plan

Cliff and Casey,

The proposed work plan for the MK Stewart Tank Battery is approved. Please contact Shelly Tucker if you have any further questions or comments.

As a sidenote, this Friday will be my last day at the Carlsbad BLM office as I am transferring to Oregon. I wish you all the best and have appreciated working with you. My email will remain the same, so feel free to contact me at any time.

Thank you.

Dara

Dara Glass

diglass@blm.gov

Environmental Protection Specialist

Bureau Of Land Management, Carlsbad Field Office

Direct: 575.234.5924 Cell: 575.361.3572

To Report Spills: 575.234.6235

The BLM approval/acceptance does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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On Mon, Apr 18, 2016 at 8:15 AM, Tucker, Shelly <stucker@blm.gov> wrote:

Cliff - this release is Dara's...I have forwarded her the work plan for her review.

Thanks,
Shelly Tucker

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Friday, April 8, 2016 4:25 PM

To: Jamie Keyes <jamie.keyes@state.nm.us>; Shelly Tucker <stucker@blm.gov>

Cc: Casey Summers <Casey_Summers@oxy.com>; Dusty Wilson <dusty_wilson@oxy.com>; Jennifer Duarte <Jennifer_Duarte@oxy.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>

Subject: OXY-MK Stewart Tank Battery-Remediation Plan

Jamie,

This e-mail is to confirm our discussion concerning the remediation plan for the Oxy MK Stewart Tank Battery release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

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Shelly,

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Thanks, Cliff

Cliff P. Brunson, CEI, CRS
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