

RECEIVED

By JKeyes at 3:14 pm, Oct 26, 2015

Closure Report**APPROVED**

By JKeyes at 3:14 pm, Oct 26, 2015

Site Description

Site Name:	Madera 17 Federal #1H
Company:	Oxy Permian Ltd.
Legal Description:	U/L B, Section 17, T26S, R35E
County:	Lea County, NM
GPS Coordinates:	N 32.04947° W 103.38851°

Release Data

Date of Release:	07/21/2015
Type of Release:	Oil and produced water
Source of Release:	heater treater fire tube gasket failure
Volume of Release:	135 bbls oil, 20 bbls water
Volume Recovered:	130 bbls oil, 13 bbls produced water

Remediation Specifications

Remediation Parameters:	Surface scrape the areas around SP1, SP2, SP3, SP4, and SP5 to a depth of 6 inches. Backdrag the overspray area represented by sample points SP6 and SP7. Backfill the site with clean soil.	
Remediation Activities:	09/25/2015 to 09/30/2015	
Plan Sent to OCD:	08/17/2015	Email from Cliff Brunson to Kellie Jones
OCD Approval of Plan:	08/18/2015	Email from Kellie Jones to Cliff Brunson
Plan Sent to BLM:	08/18/2015	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	08/19/2015	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 08/13/2015
Final C-141	Signed 10/07/2015
Site Diagram	July 2015
Groundwater Plot	125'-150'
TOPO Maps	July 2015
Lab Summary	08/06/2015
Lab Analysis	08/06/2015
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.

10/23/2015

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

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	6 Desta Drive, Midland, TX 79705	Telephone No.	(432) 685-5824
Facility Name	Madera 17 Federal #1H	Facility Type	Well
Surface Owner	BLM	Mineral Owner	API No. 30-25-41059

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	17	26S	35E					Lea County, NM

Latitude N 32.04947° Longitude W 103.38851°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	135 bbls oil, 20 bbls produced water	Volume Recovered	130 bbls oil, 13 bbls produced water
Source of Release	Over-pressure of a line caused the heater treater fire tube gasket to fail	Date and Hour of Occurrence	07/21/2015	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?	Kellie Jones- NMOCD; Shelly Tucker and James Amos- BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	07/21/2015 @ 4:45 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.*

Over-pressure of a line caused the heater treater fire tube gasket to fail thus spilling 135 bbls of oil and 20 bbls of produced water onto the ground. A vacuum truck recovered 130 bbls of oil and 13 bbls of produced water and the gasket was repaired/replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 250' x 50' both on and off location. 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: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Lead	Approval Date:	Expiration Date:	
E-mail Address: <u>Chancey_Summers@oxy.com</u>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>8-13-15</u> Phone: (432) 685-5824			

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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State of New Mexico
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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	Dusty Wilson
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(432) 685-5771
Facility Name	Madera 17 Federal #1H	Facility Type	Well
Surface Owner	BLM	Mineral Owner	
		API No.	30-25-41059

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	17	26S	35E					Lea County, NM

Latitude N 32.04947° Longitude W 103.38851°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	135 bbls oil, 20 bbls produced water	Volume Recovered	130 bbls oil, 13 bbls produced water
Source of Release	Over-pressure of a line caused the heater treater fire tube gasket to fail	Date and Hour of Occurrence	07/21/2015	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?	Kellie Jones- NMOCD; Shelly Tucker and James Amos- BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	07/21/2015 @ 4:45 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.*

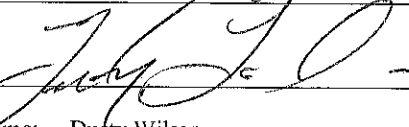
Describe Cause of Problem and Remedial Action Taken.*

Over-pressure of a line caused the heater treater fire tube gasket to fail thus spilling 135 bbls of oil and 20 bbls of produced water onto the ground. A vacuum truck recovered 130 bbls of oil and 13 bbls of produced water and the gasket was repaired/replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 250' x 50' both on and off location. Remediation was completed in accordance with the remediation plan approved by Kellie Jones of NMOCD via email on 08/18/2015 and approved by Shelly Tucker of the BLM via email on 08/19/2015.

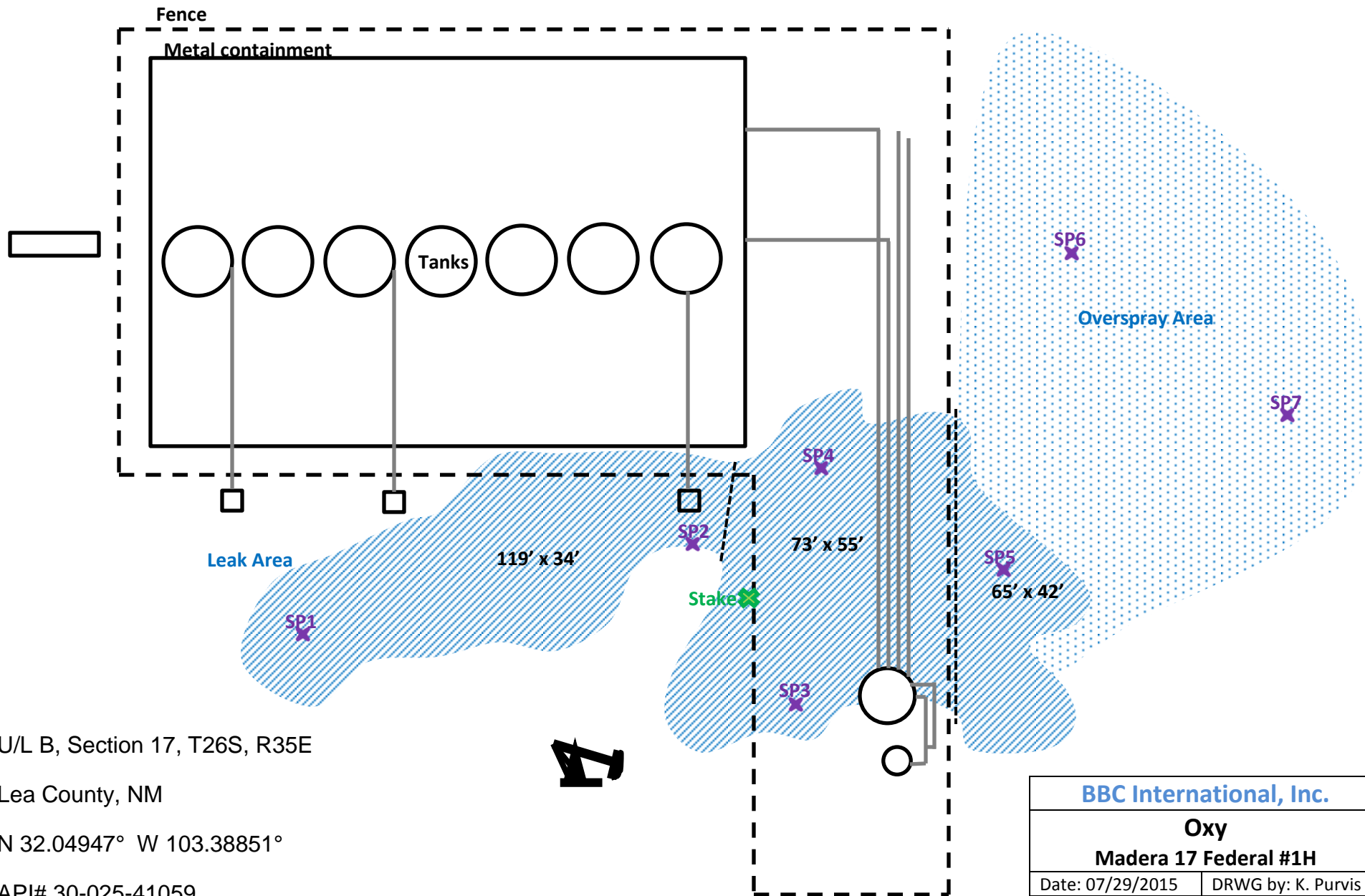
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Dusty Wilson	Approved by Environmental Specialist:		
Title: Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: <u>Dusty.Wilson@oxy.com</u>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>10/7/15</u> Phone: (432) 685-5771			

* Attach Additional Sheets If Necessary

Oxy

Madera 17 Federal #1H



U/L B, Section 17, T26S, R35E

Lea County, NM

N 32.04947° W 103.38851°

API# 30-025-41059

BBC International, Inc.

Oxy
Madera 17 Federal #1H

Date: 07/29/2015

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2015



Groundwater Plot

Oxy Madera 17 Federal #1H

County
Lea

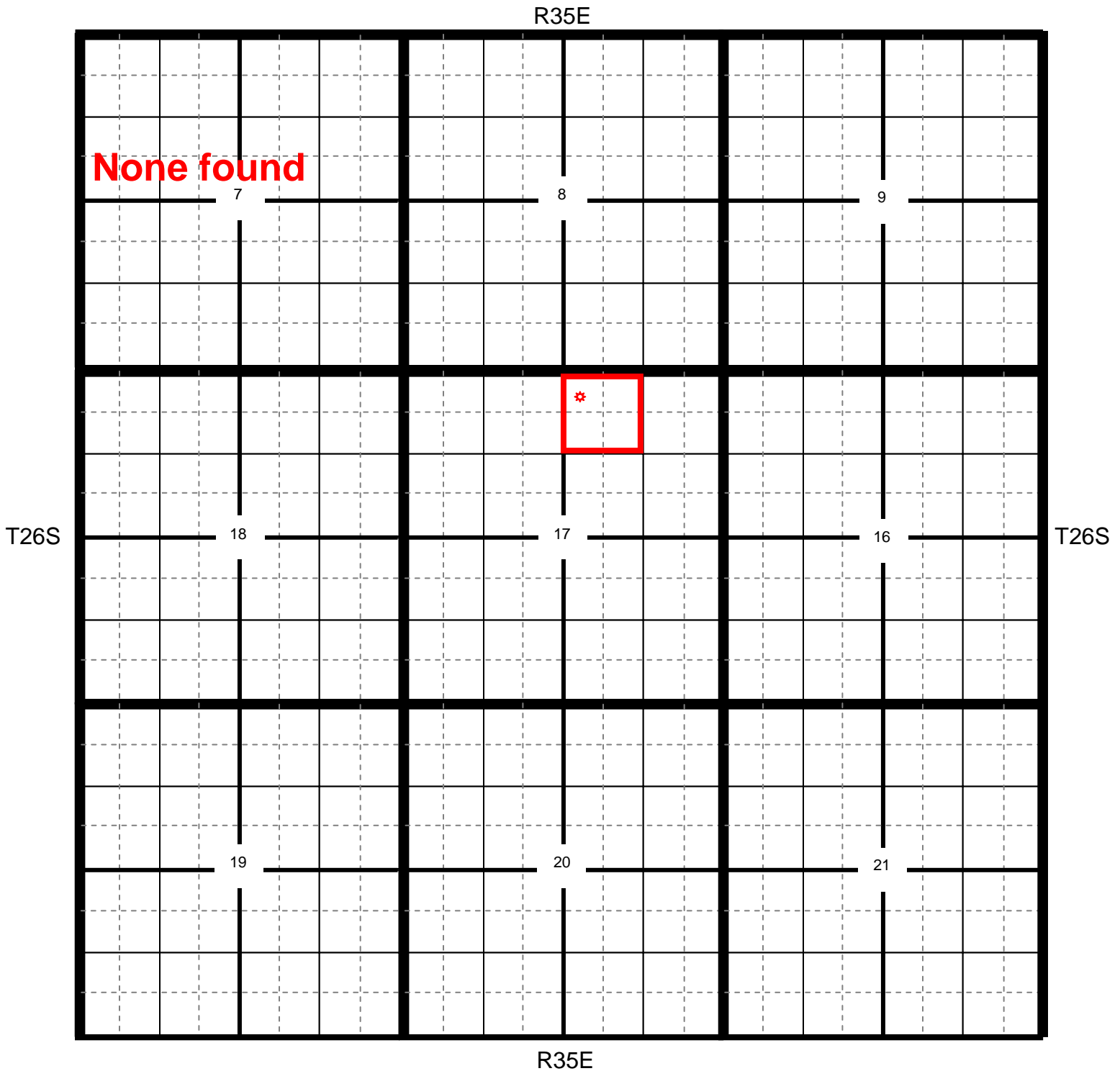
Unit Letter
B

Section
17

Township
T26S

Range
R35E

Trend Map <150'



★ Location

● OCD

● USGS

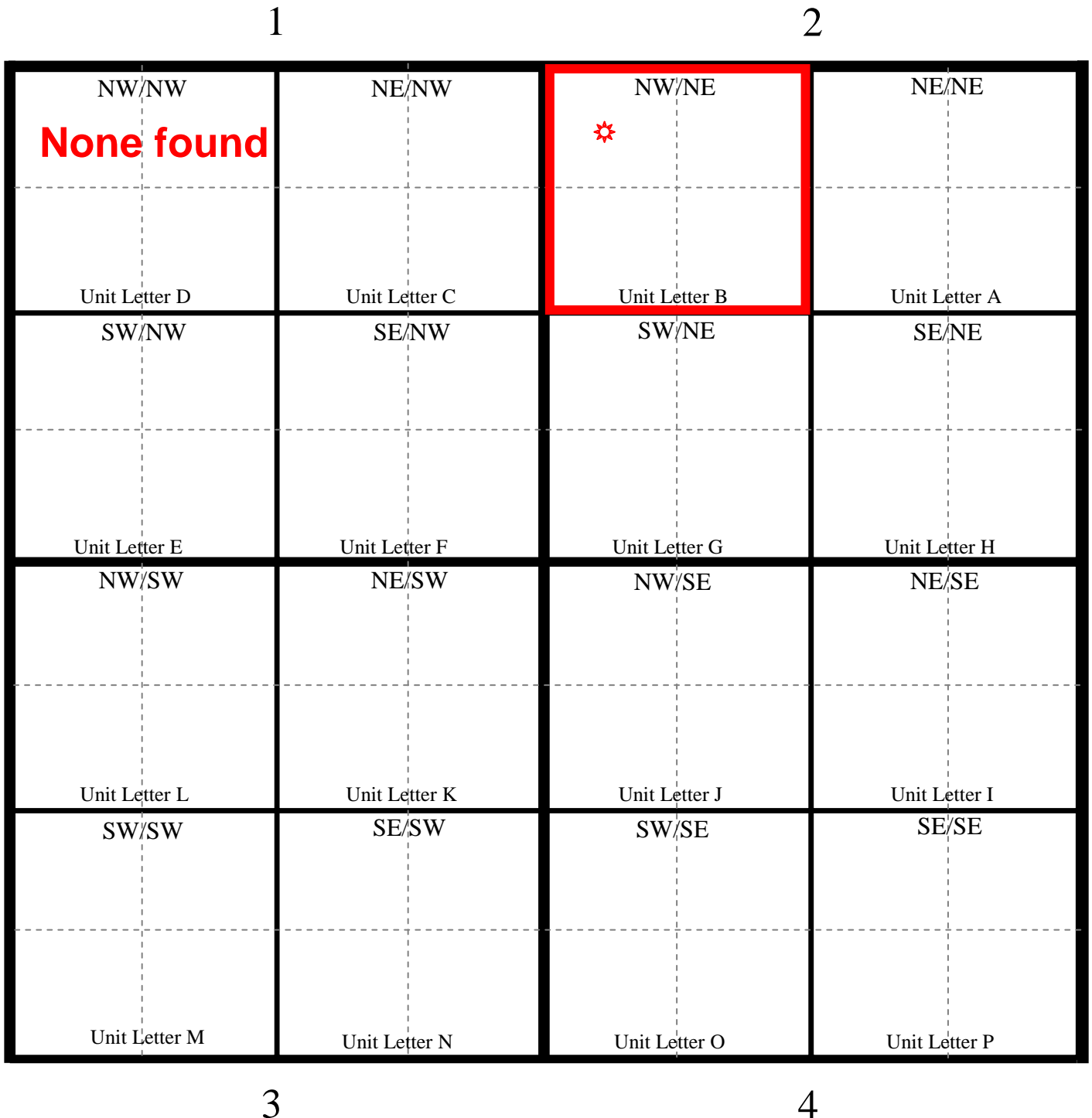
● SEO

● All Databases

Oxy Madera 17 Federal #1H

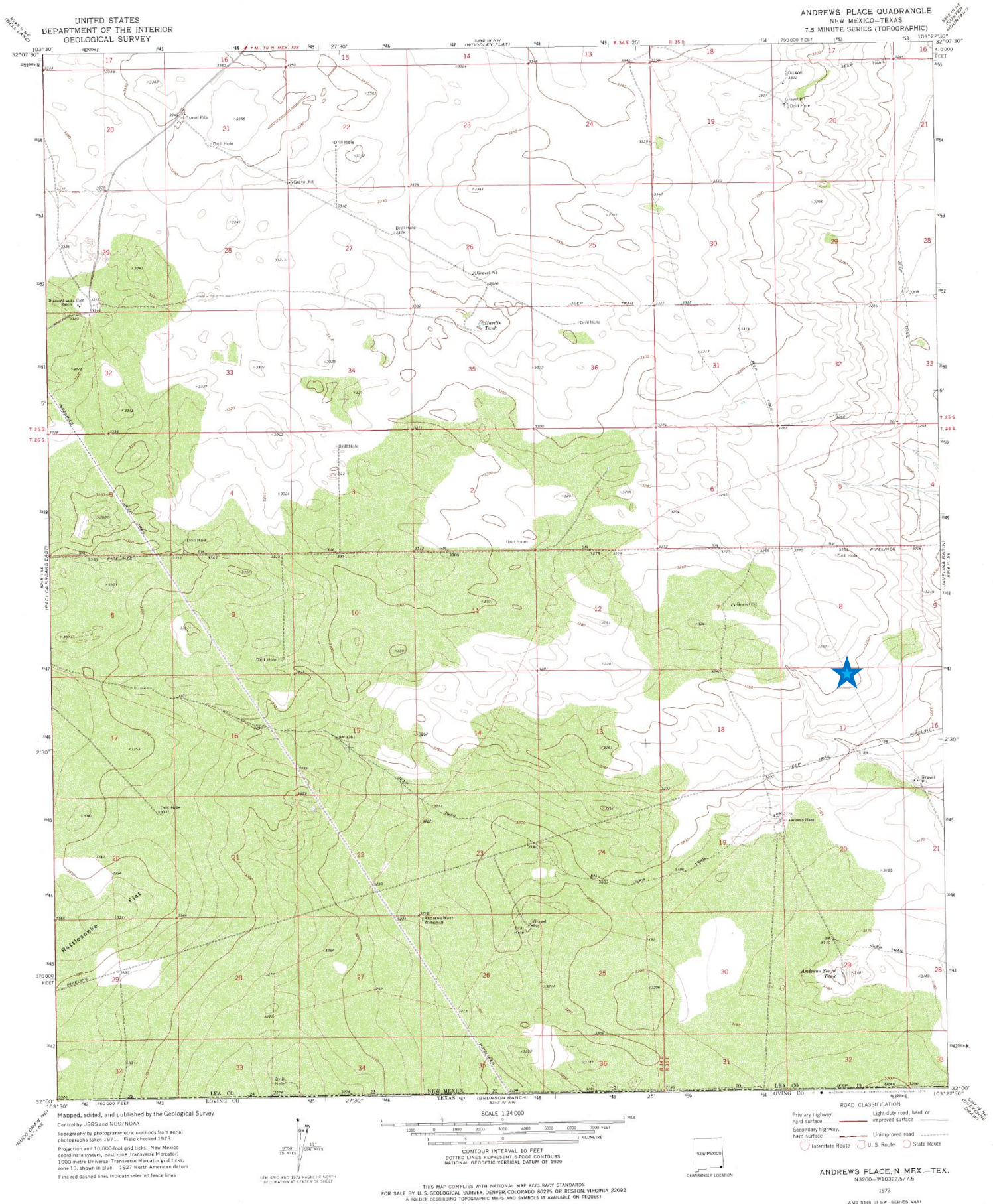
County	Unit Letter	Section	Township	Range
Lea	B	17	26S	35E

Trend Map 150'



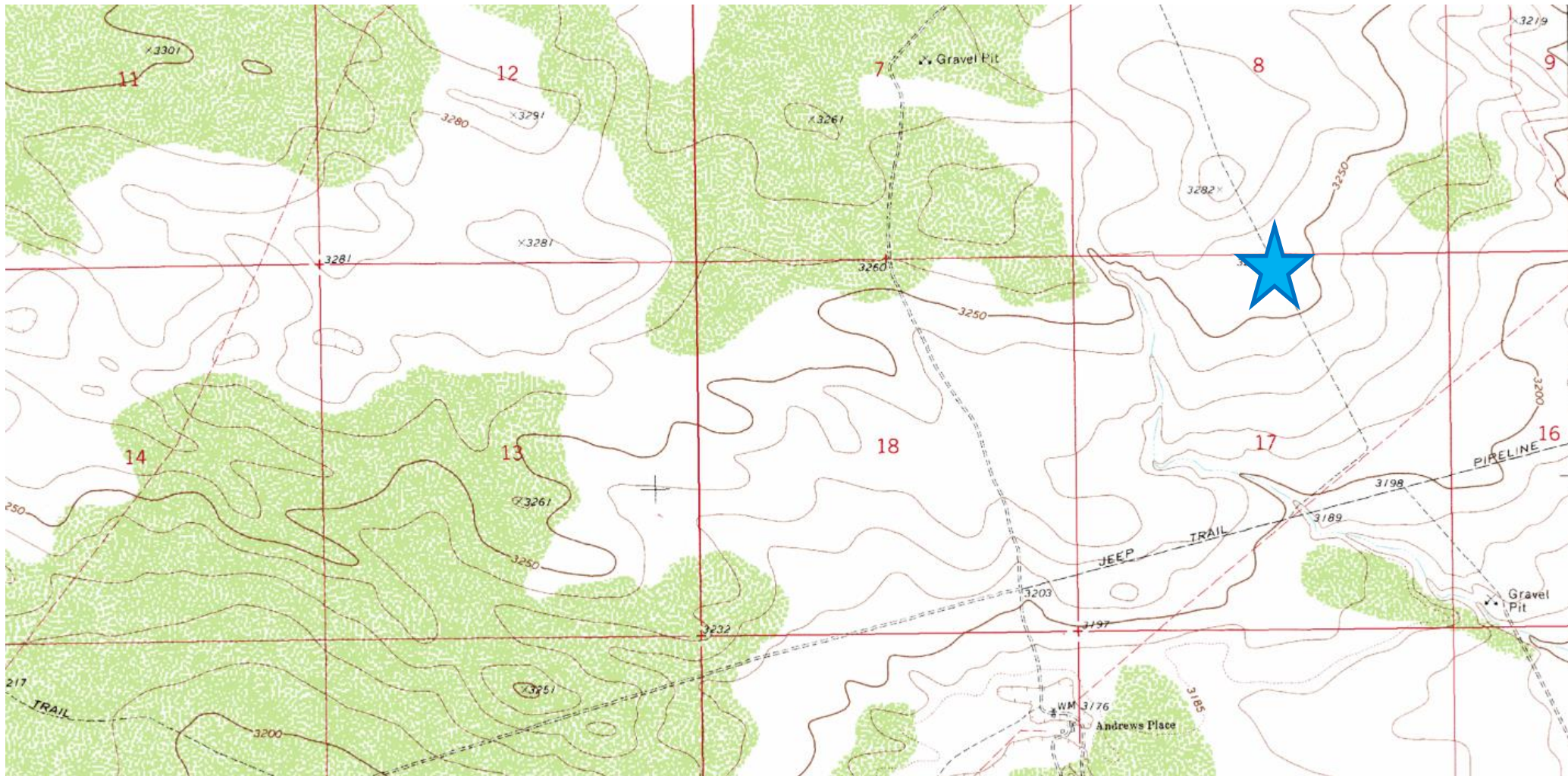
Oxy

Madera 17 Federal #1H



Oxy

Madera 17 Federal #1H



**Laboratory Analytical Results Summary
Madera 17 Federal #1H**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	8/6/15	8/6/15	8/6/15
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.052	<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		368	272	32
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	8/6/15	8/6/15	8/6/15
			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	<16.0	16
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	8/6/15	8/6/15	8/6/15
			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		<16.0	<16.0	32
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	8/6/15	8/6/15	8/6/15
			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	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	8/6/15	8/6/15	8/6/15
			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	<16.0	32
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP6 @ 1'
Analyte	Method	Date	8/6/15
			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		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP7 @ 1'
Analyte	Method	Date	8/6/15
			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		48
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

August 14, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MADERA 17 FED 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/07/15 13:59.

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: 08/07/2015
Reported: 08/14/2015
Project Name: MADERA 17 FED 1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP1 @ 1' (H502069-01)

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	08/11/2015	ND	2.00	99.9	2.00	1.69	
Toluene*	0.052	0.050	08/11/2015	ND	2.14	107	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/11/2015	ND	2.06	103	2.00	7.49	
Total Xylenes*	<0.150	0.150	08/11/2015	ND	6.12	102	6.00	6.95	
Total BTX	<0.300	0.300	08/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	08/12/2015	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	08/08/2015	ND	205	102	200	1.07	
DRO >C10-C28	<10.0	10.0	08/08/2015	ND	190	95.2	200	1.70	

Surrogate: 1-Chlorooctane 115 % 47.2-157

Surrogate: 1-Chlorooctadecane 126 % 52.1-176

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: 08/07/2015
Reported: 08/14/2015
Project Name: MADERA 17 FED 1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP1 @ 2' (H502069-02)

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	08/11/2015	ND	2.22	111	2.00	0.0643		
Toluene*	<0.050	0.050	08/11/2015	ND	2.14	107	2.00	0.619		
Ethylbenzene*	<0.050	0.050	08/11/2015	ND	2.36	118	2.00	0.403		
Total Xylenes*	<0.150	0.150	08/11/2015	ND	6.68	111	6.00	0.406		
Total BTEx	<0.300	0.300	08/11/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/12/2015	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	08/08/2015	ND	205	102	200	1.07	
DRO >C10-C28	<10.0	10.0	08/08/2015	ND	190	95.2	200	1.70	

Surrogate: 1-Chlorooctane 111 % 47.2-157

Surrogate: 1-Chlorooctadecane 124 % 52.1-176

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

Received: 08/07/2015
Reported: 08/14/2015
Project Name: MADERA 17 FED 1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP1 @ 3' (H502069-03)

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	08/11/2015	ND	2.22	111	2.00	0.0643	
Toluene*	<0.050	0.050	08/11/2015	ND	2.14	107	2.00	0.619	
Ethylbenzene*	<0.050	0.050	08/11/2015	ND	2.36	118	2.00	0.403	
Total Xylenes*	<0.150	0.150	08/11/2015	ND	6.68	111	6.00	0.406	
Total BTEx	<0.300	0.300	08/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500CI-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	08/12/2015	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	08/08/2015	ND	205	102	200	1.07	
DRO >C10-C28	<10.0	10.0	08/08/2015	ND	190	95.2	200	1.70	

Surrogate: 1-Chlorooctane 110 % 47.2-157

Surrogate: 1-Chlorooctadecane 139 % 52.1-176

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: 08/07/2015
Reported: 08/14/2015
Project Name: MADERA 17 FED 1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP2 @ 1' (H502069-04)

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	08/11/2015	ND	2.22	111	2.00	0.0643	
Toluene*	<0.050	0.050	08/11/2015	ND	2.14	107	2.00	0.619	
Ethylbenzene*	<0.050	0.050	08/11/2015	ND	2.36	118	2.00	0.403	
Total Xylenes*	<0.150	0.150	08/11/2015	ND	6.68	111	6.00	0.406	
Total BTX	<0.300	0.300	08/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 85.6-137

Chloride, SM4500CI-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	08/12/2015	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	08/08/2015	ND	205	102	200	1.07	
DRO >C10-C28	<10.0	10.0	08/08/2015	ND	190	95.2	200	1.70	

Surrogate: 1-Chlorooctane 110 % 47.2-157

Surrogate: 1-Chlorooctadecane 125 % 52.1-176

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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: 08/07/2015
Reported: 08/14/2015
Project Name: MADERA 17 FED 1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP2 @ 2' (H502069-05)

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	08/11/2015	ND	2.22	111	2.00	0.0643	
Toluene*	<0.050	0.050	08/11/2015	ND	2.14	107	2.00	0.619	
Ethylbenzene*	<0.050	0.050	08/11/2015	ND	2.36	118	2.00	0.403	
Total Xylenes*	<0.150	0.150	08/11/2015	ND	6.68	111	6.00	0.406	
Total BTEx	<0.300	0.300	08/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

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	08/12/2015	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	08/08/2015	ND	205	102	200	1.07	
DRO >C10-C28	<10.0	10.0	08/08/2015	ND	190	95.2	200	1.70	

Surrogate: 1-Chlorooctane 115 % 47.2-157

Surrogate: 1-Chlorooctadecane 136 % 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: 08/07/2015
 Reported: 08/14/2015
 Project Name: MADERA 17 FED 1H
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/06/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: SP2 @ 3' (H502069-06)

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	08/11/2015	ND	2.22	111	2.00	0.0643	
Toluene*	<0.050	0.050	08/11/2015	ND	2.14	107	2.00	0.619	
Ethylbenzene*	<0.050	0.050	08/11/2015	ND	2.36	118	2.00	0.403	
Total Xylenes*	<0.150	0.150	08/11/2015	ND	6.68	111	6.00	0.406	
Total BTEx	<0.300	0.300	08/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

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	08/12/2015	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	08/08/2015	ND	205	102	200	1.07	
DRO >C10-C28	<10.0	10.0	08/08/2015	ND	190	95.2	200	1.70	

Surrogate: 1-Chlorooctane 122 % 47.2-157

Surrogate: 1-Chlorooctadecane 156 % 52.1-176

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 Received: 08/07/2015
 Reported: 08/14/2015
 Project Name: MADERA 17 FED 1H
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/06/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: SP3 @ 1' (H502069-07)

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	08/11/2015	ND	2.22	111	2.00	0.0643		
Toluene*	<0.050	0.050	08/11/2015	ND	2.14	107	2.00	0.619		
Ethylbenzene*	<0.050	0.050	08/11/2015	ND	2.36	118	2.00	0.403		
Total Xylenes*	<0.150	0.150	08/11/2015	ND	6.68	111	6.00	0.406		
Total BTEx	<0.300	0.300	08/11/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

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	08/12/2015	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	08/08/2015	ND	205	102	200	1.07	
DRO >C10-C28	<10.0	10.0	08/08/2015	ND	190	95.2	200	1.70	

Surrogate: 1-Chlorooctane 116 % 47.2-157

Surrogate: 1-Chlorooctadecane 147 % 52.1-176

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Received: 08/07/2015
Reported: 08/14/2015
Project Name: MADERA 17 FED 1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP3 @ 2' (H502069-08)

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	08/11/2015	ND	2.22	111	2.00	0.0643	
Toluene*	<0.050	0.050	08/11/2015	ND	2.14	107	2.00	0.619	
Ethylbenzene*	<0.050	0.050	08/11/2015	ND	2.36	118	2.00	0.403	
Total Xylenes*	<0.150	0.150	08/11/2015	ND	6.68	111	6.00	0.406	
Total BTEx	<0.300	0.300	08/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

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	08/12/2015	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	08/10/2015	ND	204	102	200	5.09	
DRO >C10-C28	<10.0	10.0	08/10/2015	ND	189	94.4	200	13.2	

Surrogate: 1-Chlorooctane 125 % 47.2-157

Surrogate: 1-Chlorooctadecane 155 % 52.1-176

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Received: 08/07/2015
Reported: 08/14/2015
Project Name: MADERA 17 FED 1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP3 @ 3' (H502069-09)

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	08/11/2015	ND	2.22	111	2.00	0.0643	
Toluene*	<0.050	0.050	08/11/2015	ND	2.14	107	2.00	0.619	
Ethylbenzene*	<0.050	0.050	08/11/2015	ND	2.36	118	2.00	0.403	
Total Xylenes*	<0.150	0.150	08/11/2015	ND	6.68	111	6.00	0.406	
Total BTX	<0.300	0.300	08/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

Chloride, SM4500CI-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	08/12/2015	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	08/10/2015	ND	204	102	200	5.09	
DRO >C10-C28	<10.0	10.0	08/10/2015	ND	189	94.4	200	13.2	

Surrogate: 1-Chlorooctane 118 % 47.2-157

Surrogate: 1-Chlorooctadecane 130 % 52.1-176

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

Received: 08/07/2015
Reported: 08/14/2015
Project Name: MADERA 17 FED 1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP4 @ 1' (H502069-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2015	ND	2.22	111	2.00	0.0643	
Toluene*	<0.050	0.050	08/11/2015	ND	2.14	107	2.00	0.619	
Ethylbenzene*	<0.050	0.050	08/11/2015	ND	2.36	118	2.00	0.403	
Total Xylenes*	<0.150	0.150	08/11/2015	ND	6.68	111	6.00	0.406	
Total BTX	<0.300	0.300	08/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500CI-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	08/12/2015	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	08/10/2015	ND	204	102	200	5.09	
DRO >C10-C28	<10.0	10.0	08/10/2015	ND	189	94.4	200	13.2	

Surrogate: 1-Chlorooctane 120 % 47.2-157

Surrogate: 1-Chlorooctadecane 141 % 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: 08/07/2015
Reported: 08/14/2015
Project Name: MADERA 17 FED 1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP4 @ 2' (H502069-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2015	ND	2.22	111	2.00	0.0643	
Toluene*	<0.050	0.050	08/11/2015	ND	2.14	107	2.00	0.619	
Ethylbenzene*	<0.050	0.050	08/11/2015	ND	2.36	118	2.00	0.403	
Total Xylenes*	<0.150	0.150	08/11/2015	ND	6.68	111	6.00	0.406	
Total BTX	<0.300	0.300	08/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

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	08/12/2015	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	08/10/2015	ND	204	102	200	5.09	
DRO >C10-C28	<10.0	10.0	08/10/2015	ND	189	94.4	200	13.2	

Surrogate: 1-Chlorooctane 119 % 47.2-157

Surrogate: 1-Chlorooctadecane 134 % 52.1-176

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Fax To: (575) 397-0397

Received: 08/07/2015
Reported: 08/14/2015
Project Name: MADERA 17 FED 1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP4 @ 3' (H502069-12)

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	08/11/2015	ND	2.22	111	2.00	0.0643	
Toluene*	<0.050	0.050	08/11/2015	ND	2.14	107	2.00	0.619	
Ethylbenzene*	<0.050	0.050	08/11/2015	ND	2.36	118	2.00	0.403	
Total Xylenes*	<0.150	0.150	08/11/2015	ND	6.68	111	6.00	0.406	
Total BTX	<0.300	0.300	08/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 85.6-137

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	08/12/2015	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	08/10/2015	ND	204	102	200	5.09	
DRO >C10-C28	<10.0	10.0	08/10/2015	ND	189	94.4	200	13.2	

Surrogate: 1-Chlorooctane 122 % 47.2-157

Surrogate: 1-Chlorooctadecane 139 % 52.1-176

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Fax To: (575) 397-0397

Received: 08/07/2015
Reported: 08/14/2015
Project Name: MADERA 17 FED 1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP5 @ 1' (H502069-13)

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	08/11/2015	ND	2.22	111	2.00	0.0643	
Toluene*	<0.050	0.050	08/11/2015	ND	2.14	107	2.00	0.619	
Ethylbenzene*	<0.050	0.050	08/11/2015	ND	2.36	118	2.00	0.403	
Total Xylenes*	<0.150	0.150	08/11/2015	ND	6.68	111	6.00	0.406	
Total BTX	<0.300	0.300	08/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

Chloride, SM4500CI-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	08/12/2015	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	08/10/2015	ND	204	102	200	5.09	
DRO >C10-C28	<10.0	10.0	08/10/2015	ND	189	94.4	200	13.2	

Surrogate: 1-Chlorooctane 117 % 47.2-157

Surrogate: 1-Chlorooctadecane 130 % 52.1-176

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: 08/07/2015
Reported: 08/14/2015
Project Name: MADERA 17 FED 1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP5 @ 2' (H502069-14)

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	08/11/2015	ND	2.22	111	2.00	0.0643	
Toluene*	<0.050	0.050	08/11/2015	ND	2.14	107	2.00	0.619	
Ethylbenzene*	<0.050	0.050	08/11/2015	ND	2.36	118	2.00	0.403	
Total Xylenes*	<0.150	0.150	08/11/2015	ND	6.68	111	6.00	0.406	
Total BTX	<0.300	0.300	08/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 85.6-137

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	08/12/2015	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	08/10/2015	ND	204	102	200	5.09	
DRO >C10-C28	<10.0	10.0	08/10/2015	ND	189	94.4	200	13.2	

Surrogate: 1-Chlorooctane 120 % 47.2-157

Surrogate: 1-Chlorooctadecane 135 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 08/07/2015
Reported: 08/14/2015
Project Name: MADERA 17 FED 1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP5 @ 3' (H502069-15)

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	08/11/2015	ND	2.22	111	2.00	0.0643	
Toluene*	<0.050	0.050	08/11/2015	ND	2.14	107	2.00	0.619	
Ethylbenzene*	<0.050	0.050	08/11/2015	ND	2.36	118	2.00	0.403	
Total Xylenes*	<0.150	0.150	08/11/2015	ND	6.68	111	6.00	0.406	
Total BTX	<0.300	0.300	08/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

Chloride, SM4500CI-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	08/12/2015	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	08/10/2015	ND	204	102	200	5.09	
DRO >C10-C28	<10.0	10.0	08/10/2015	ND	189	94.4	200	13.2	

Surrogate: 1-Chlorooctane 125 % 47.2-157

Surrogate: 1-Chlorooctadecane 161 % 52.1-176

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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: 08/07/2015
Reported: 08/14/2015
Project Name: MADERA 17 FED 1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP6 @ 1' (H502069-16)

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	08/11/2015	ND	2.22	111	2.00	0.0643	
Toluene*	<0.050	0.050	08/11/2015	ND	2.14	107	2.00	0.619	
Ethylbenzene*	<0.050	0.050	08/11/2015	ND	2.36	118	2.00	0.403	
Total Xylenes*	<0.150	0.150	08/11/2015	ND	6.68	111	6.00	0.406	
Total BTX	<0.300	0.300	08/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

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	08/12/2015	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	08/10/2015	ND	204	102	200	5.09	
DRO >C10-C28	<10.0	10.0	08/10/2015	ND	189	94.4	200	13.2	

Surrogate: 1-Chlorooctane 120 % 47.2-157

Surrogate: 1-Chlorooctadecane 151 % 52.1-176

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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: 08/07/2015
Reported: 08/14/2015
Project Name: MADERA 17 FED 1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP7 @ 1' (H502069-17)

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	08/11/2015	ND	2.22	111	2.00	0.0643	
Toluene*	<0.050	0.050	08/11/2015	ND	2.14	107	2.00	0.619	
Ethylbenzene*	<0.050	0.050	08/11/2015	ND	2.36	118	2.00	0.403	
Total Xylenes*	<0.150	0.150	08/11/2015	ND	6.68	111	6.00	0.406	
Total BTX	<0.300	0.300	08/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 85.6-137

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	08/12/2015	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	08/10/2015	ND	204	102	200	5.09	
DRO >C10-C28	<10.0	10.0	08/10/2015	ND	189	94.4	200	13.2	

Surrogate: 1-Chlorooctane 124 % 47.2-157

Surrogate: 1-Chlorooctadecane 136 % 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

ORDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

[illegible]

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

#54

Kathy Purvis

From: Jones, Kellie, EMNRD <Kellie.Jones@state.nm.us>
Sent: Tuesday, August 18, 2015 1:04 PM
To: Cliff Brunson; Tucker, Shelly
Cc: Keyes, Jamie, EMNRD; Oberding, Tomas, EMNRD; C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY Madera 17 Federal #1H - Remediation Plan

Cliff,

The work plan is approved as submitted. Ensure BLM approval.

Have a great day!

Kellie Jones
Environmental Specialist, District 1
Oil Conservation Division, EMNRD
575-393-6161 ext. 111
575-370-3180 (emergency-cell)
E-Mail: kellie.jones@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Please note:

- The OCD is no longer granting "risk-based," or standard closure of events/RPs with remediation deferred to site abandonment/sale/closure. The RP will remain open until such time as historic contamination is addressed.
- Photographic documentation is stipulated for all events involving liquids.

If you have any questions or concerns, and for notification, please contact me.

From: Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Monday, August 17, 2015 2:46 PM
To: Jones, Kellie, EMNRD
Cc: Keyes, Jamie, EMNRD; Oberding, Tomas, EMNRD; C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY Madera 17 Federal #1H - Remediation Plan

Kellie,

This e-mail is to confirm our discussion on Friday, August 14, 2015 concerning the remediation plan for the Oxy Madera 17 Federal #1H. 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.

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.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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Kathy Purvis

From: Tucker, Shelly <stucker@blm.gov>
Sent: Wednesday, August 19, 2015 11:28 AM
To: Jones, Kellie, EMNRD
Cc: Cliff Brunson; Keyes, Jamie, EMNRD; Oberding, Tomas, EMNRD; C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Re: OXY Madera 17 Federal #1H - Remediation Plan

BLM accepts/approves your Work Plan.

The BLM approval 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.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Bureau of Land Management

620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular

stucker@blm.gov



On Tue, Aug 18, 2015 at 1:03 PM, Jones, Kellie, EMNRD <Kellie.Jones@state.nm.us> wrote:

Cliff,

The work plan is approved as submitted. Ensure BLM approval.

Have a great day!

Kellie Jones

Environmental Specialist, District 1

Oil Conservation Division, EMNRD

575-393-6161 ext. 111

575-370-3180 (emergency-cell)

E-Mail: kellie.jones@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Please note:

-The OCD is no longer granting “risk-based,” or standard closure of events/RPs with remediation deferred to site abandonment/sale/closure. The RP will remain open until such time as historic contamination is addressed.

-Photographic documentation is stipulated for all events involving liquids.

If you have any questions or concerns, and for notification, please contact me.

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

Sent: Monday, August 17, 2015 2:46 PM

To: Jones, Kellie, EMNRD

Cc: Keyes, Jamie, EMNRD; Oberding, Tomas, EMNRD; C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject: OXY Madera 17 Federal #1H - Remediation Plan

Kellie,

This e-mail is to confirm our discussion on Friday, August 14, 2015 concerning the remediation plan for the Oxy Madera 17 Federal #1H. 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.

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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