

PJXK 1535150940
4833

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	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	MLMU #98	Facility Type	Battery location
Surface Owner	Kelly Myers	Mineral Owner	API No. 30-025-10906 (nearest well)

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	31	23S	37E					Lea County, NM

Latitude N 32.25897° Longitude W 103.20735°

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	2 bbls oil, 18 bbls produced water	Volume Recovered	0 bbls
Source of Release	Over pressure in 3" poly production flow line	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 @ 4:18 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 in a 3" poly production flow line caused 2 bbls of oil and 18 bbls of produced water to leak onto the ground. No fluids were recovered and the line was repaired or replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 80' x 80' 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.

OIL CONSERVATION DIVISION

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

* Attach Additional Sheets If Necessary

DEC 2 2 2015

Leking, Geoffrey R, EMNRD

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Thursday, June 26, 2014 8:20 PM
To: Leking, Geoffrey R, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY-MLMU #98-Remediation Plan
Attachments: Remediation Packet, MLMU #98.pdf

HOBBS OCD

JUN 26 2014

RECEIVED

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 back drag the spill area in the areas of SP1 and SP2. In the areas around SP3 and SP4, Oxy will excavate to a depth of 1 foot 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
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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Leking, Geoffrey R, EMNRD

From: Leking, Geoffrey R, EMNRD
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.leking@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,

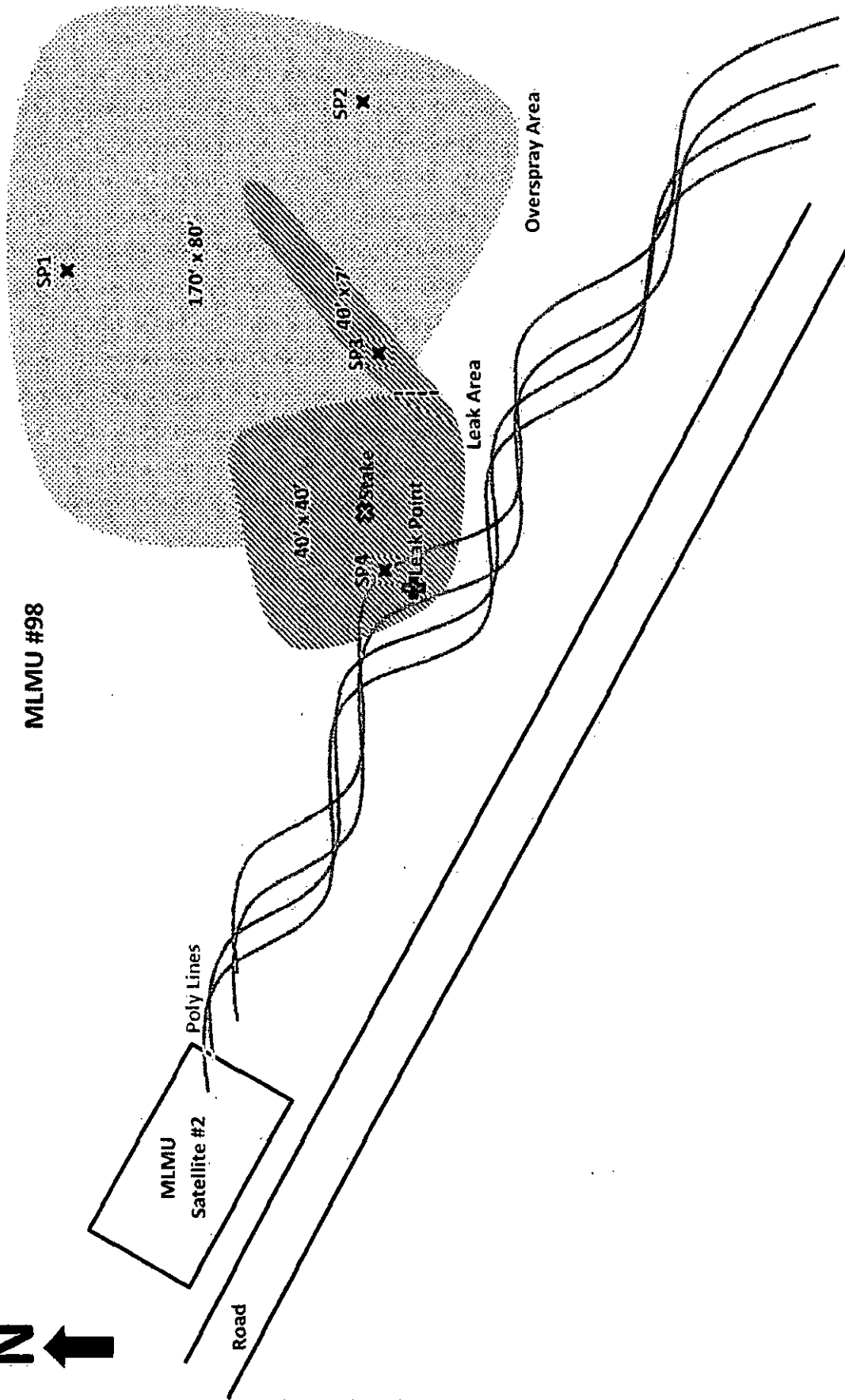
This e-mail is to confirm our conversation on June 19, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 4 feet in the area around SP1, 1 foot in the areas of SP2 and SP3, 2 feet in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



Oxy
MLMU #98



BBC International, Inc.	
Oxy	MLMU #98
Date: 04/21/2014	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014

Section 31, T23S, R37E
Lea County, NM
N 32.26430° W 103.21428°



Groundwater Plot

Oxy MLMU #98

County
Lea

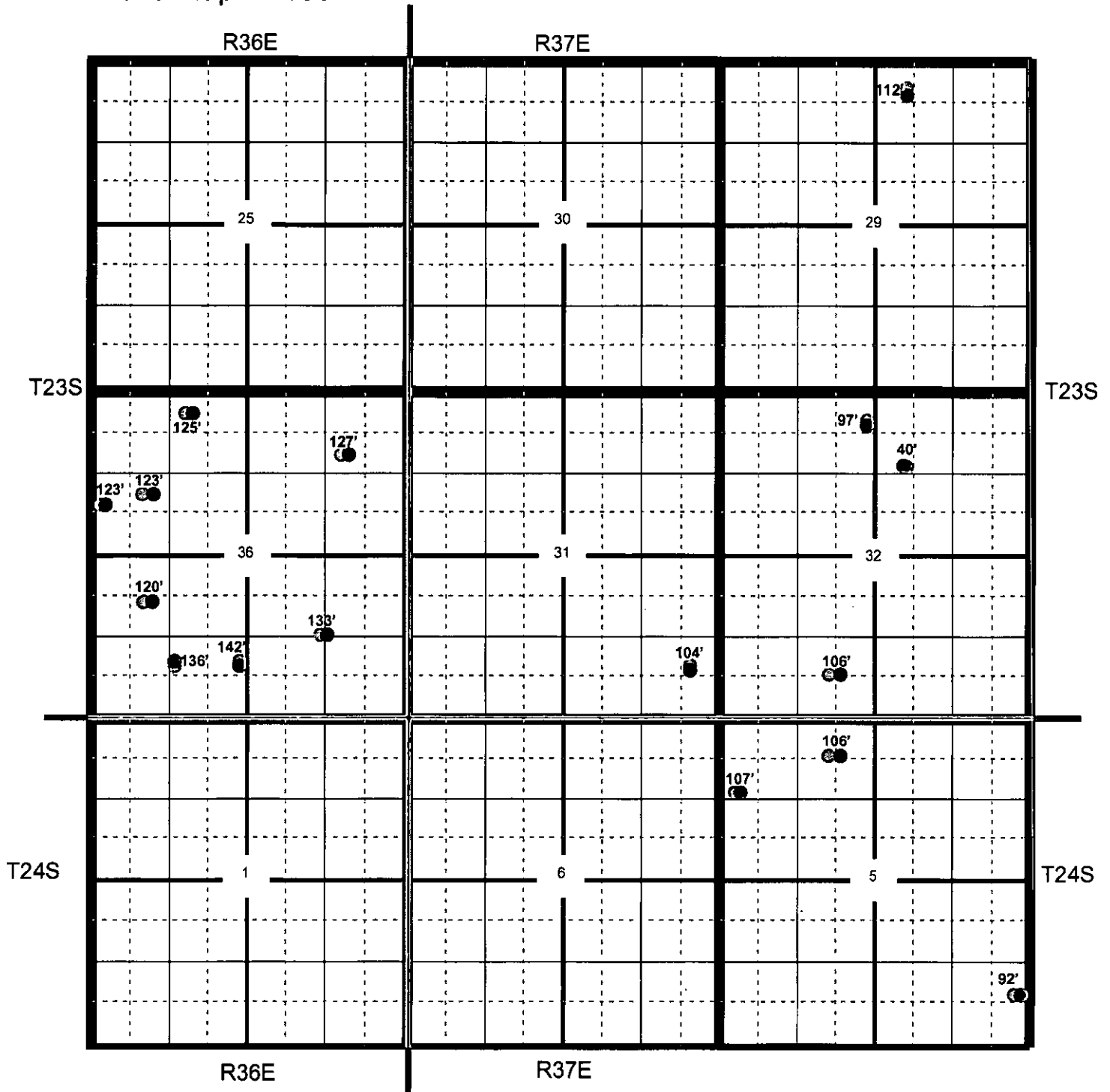
Unit Letter

Section
31

Township
23S

Range
37E

Trend Map 100'



• Location

• OCD

• USGS

• SEO

• All Databases



Section Quarters

Oxy MLMU #98

County
Lea

Unit Letter

Section
31

Township
23S

Range
37E

Trend Map 100'

1

2

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

104'

3

4

⊗ Location

● OCD

● USGS

● SEO

● All Databases

Laboratory Analytical Results Summary
MLMU #98

Analyte	Method	Sample Date	SP1 @ Surface 4/29/14 mg/Kg	SP1 @ 1' 4/29/14 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		<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		231	<10.0

Analyte	Method	Sample Date	SP2 @ Surface 4/29/14 mg/Kg	SP2 @ 1' 4/29/14 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		64.0	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		204	<10.0

Analyte	Method	Sample Date	SP3 @ Surface 4/29/14 mg/Kg	SP3 @ 1' 4/29/14 mg/Kg	SP3 @ 2' 4/29/14 mg/Kg	SP3 @ 3' 4/29/14 mg/Kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.718	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		4.82	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		16.3	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		21.9	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		1490	640	<16.0	<16.0
GRO	TPH 8015M		1220	<10.0	<10.0	<10.0
DRO	TPH 8015M		46600	81.6	62.1	<10.0

Analyte	Method	Sample Date	SP4 @ Surface 4/29/14 mg/Kg	SP4 @ 1' 4/29/14 mg/Kg	SP4 @ 2' 4/29/14 mg/Kg	SP4 @ 3' 4/29/14 mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		3080	448	320	48.0
GRO	TPH 8015M		<100	<10.0	<10.0	<10.0
DRO	TPH 8015M		18100	<10.0	1440	<10.0



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

May 06, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #98

Enclosed are the results of analyses for samples received by the laboratory on 04/30/14 10:05.

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: 04/30/2014
 Reported: 05/06/2014
 Project Name: MLMU #98
 Project Number: NONE GIVEN
 Project Location: JAL, NM

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H401298-01)

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	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	<0.050	0.050	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.20	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTEX	<0.300	0.300	05/05/2014	ND					

Surrogate: Dibromofluoromethane 94.5 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 107 % 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	05/05/2014	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	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	231	10.0	05/06/2014	ND	212	106	200	4.06	


Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.5 % 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: 04/30/2014
 Reported: 05/06/2014
 Project Name: MLMU #98
 Project Number: NONE GIVEN
 Project Location: JAL, NM

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H401298-02)

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	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	<0.050	0.050	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.20	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTEX	<0.300	0.300	05/05/2014	ND					

Surrogate: Dibromofluoromethane 95.3 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 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	05/05/2014	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	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	<10.0	10.0	05/06/2014	ND	212	106	200	4.06	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 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: 04/30/2014
 Reported: 05/06/2014
 Project Name: MLMU #98
 Project Number: NONE GIVEN
 Project Location: JAL, NM

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ SURFACE (H401298-03)
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	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	<0.050	0.050	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.20	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTEX	<0.300	0.300	05/05/2014	ND					

Surrogate: Dibromofluoromethane 96.7 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 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	05/05/2014	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	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	204	10.0	05/06/2014	ND	212	106	200	4.06	


Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 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: 04/30/2014
 Reported: 05/06/2014
 Project Name: MLMU #98
 Project Number: NONE GIVEN
 Project Location: JAL, NM

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H401298-04)

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	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	<0.050	0.050	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.20	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTEX	<0.300	0.300	05/05/2014	ND					

Surrogate: Dibromofluoromethane 98.0 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 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	05/05/2014	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	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	<10.0	10.0	05/06/2014	ND	212	106	200	4.06	

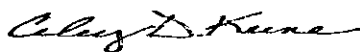
Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 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: 04/30/2014
 Reported: 05/06/2014
 Project Name: MLMU #98
 Project Number: NONE GIVEN
 Project Location: JAL, NM

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H401298-05)

BTEX 8260B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	0.718	0.100	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	4.82	0.100	05/05/2014	ND	2.13	107	2.00	5.20	
Total Xylenes*	16.3	0.300	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTEX	21.9	0.600	05/05/2014	ND					

Surrogate: Dibromofluoromethane 95.9 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 178 % 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	1490	16.0	05/05/2014	ND	400	100	400	3.92	

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	1220	100	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	46600	100	05/06/2014	ND	212	106	200	4.06	


Surrogate: 1-Chlorooctane 305 % 65.2-140

Surrogate: 1-Chlorooctadecane 1330 % 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: 04/30/2014
 Reported: 05/06/2014
 Project Name: MLMU #98
 Project Number: NONE GIVEN
 Project Location: JAL, NM

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H401298-06)

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	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	<0.050	0.050	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.20	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTEx	<0.300	0.300	05/05/2014	ND					

Surrogate: Dibromofluoromethane 93.9 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 107 % 65.7-141

Chloride, SM4500Cl-8		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	05/05/2014	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	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	81.6	10.0	05/06/2014	ND	212	106	200	4.06	

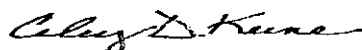
Surrogate: 1-Chlorooctane 122 % 65.2-140

Surrogate: 1-Chlorooctadecane 130 % 63.6-154

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 Hobbs NM, 88241
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 Received: 04/30/2014
 Reported: 05/06/2014
 Project Name: MLMU #98
 Project Number: NONE GIVEN
 Project Location: JAL, NM

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 2' (H401298-07)

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	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	<0.050	0.050	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.20	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTEX	<0.300	0.300	05/05/2014	ND					

Surrogate: Dibromofluoromethane 98.5 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 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	05/05/2014	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	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	62.1	10.0	05/06/2014	ND	212	106	200	4.06	


Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Received: 04/30/2014
Reported: 05/06/2014
Project Name: MLMU #98
Project Number: NONE GIVEN
Project Location: JAL, NM

Sampling Date: 04/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 3' (H401298-08)

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	05/06/2014	ND	2.17	108	2.00	3.34	
Toluene*	<0.050	0.050	05/06/2014	ND	2.16	108	2.00	1.38	
Ethylbenzene*	<0.050	0.050	05/06/2014	ND	2.11	106	2.00	0.152	
Total Xylenes*	<0.150	0.150	05/06/2014	ND	6.44	107	6.00	0.679	
Total BTEX	<0.300	0.300	05/06/2014	ND					

Surrogate: Dibromofluoromethane 95.6 % 61.3-142

Surrogate: Toluene-d8 105 % 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	<16.0	16.0	05/05/2014	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	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	<10.0	10.0	05/06/2014	ND	212	106	200	4.06	

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Received: 04/30/2014
Reported: 05/06/2014
Project Name: MLMU #98
Project Number: NONE GIVEN
Project Location: JAL, NM

Sampling Date: 04/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 4' (H401298-09)

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	05/06/2014	ND	2.17	108	2.00	3.34	
Toluene*	<0.050	0.050	05/06/2014	ND	2.16	108	2.00	1.38	
Ethylbenzene*	<0.050	0.050	05/06/2014	ND	2.11	106	2.00	0.152	
Total Xylenes*	<0.150	0.150	05/06/2014	ND	6.44	107	6.00	0.679	
Total BTEX	<0.300	0.300	05/06/2014	ND					

Surrogate: Dibromofluoromethane 98.6 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 98.8 % 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	05/05/2014	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	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	<10.0	10.0	05/06/2014	ND	212	106	200	4.06	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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 Received: 04/30/2014
 Reported: 05/06/2014
 Project Name: MLMU #98
 Project Number: NONE GIVEN
 Project Location: JAL, NM

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ SURFACE (H401298-10)

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*	<0.050	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 BTEX	<0.300	0.300	05/03/2014	ND					

Surrogate: Dibromofluoromethane 102 % 61.3-142

Surrogate: Toluene-d8 99.4 % 71.3-129

Surrogate: 4-Bromofluorobenzene 112 % 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	3080	16.0	05/05/2014	ND	400	100	400	3.92	
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	<100	100	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	18100	100	05/06/2014	ND	212	106	200	4.06	

Surrogate: 1-Chlorooctane 82.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 759 % 63.6-154

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Fax To: (575) 397-0397

Received: 04/30/2014
Reported: 05/06/2014
Project Name: MLMU #98
Project Number: NONE GIVEN
Project Location: JAL, NM

Sampling Date: 04/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1' (H401298-11)

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	2.17	109	2.00	0.904	
Toluene*	<0.050	0.050	05/03/2014	ND	2.33	117	2.00	2.93	
Ethylbenzene*	<0.050	0.050	05/03/2014	ND	2.25	112	2.00	2.74	
Total Xylenes*	<0.150	0.150	05/03/2014	ND	6.94	116	6.00	3.25	
Total BTEX	<0.300	0.300	05/03/2014	ND					

Surrogate: Dibromofluoromethane 98.8 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 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	448	16.0	05/05/2014	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	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	<10.0	10.0	05/06/2014	ND	212	106	200	4.06	

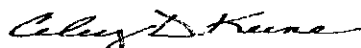
Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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 Cliff Brunson
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 Received: 04/30/2014
 Reported: 05/06/2014
 Project Name: MLMU #98
 Project Number: NONE GIVEN
 Project Location: JAL, NM

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 2' (H401298-12)

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	2.17	109	2.00	0.904	
Toluene*	<0.050	0.050	05/03/2014	ND	2.33	117	2.00	2.93	
Ethylbenzene*	<0.050	0.050	05/03/2014	ND	2.25	112	2.00	2.74	
Total Xylenes*	<0.150	0.150	05/03/2014	ND	6.94	116	6.00	3.25	
Total BTEX	<0.300	0.300	05/03/2014	ND					

Surrogate: Dibromofluoromethane 103 % 61.3-142

Surrogate: Toluene-d8 98.7 % 71.3-129

Surrogate: 4-Bromofluorobenzene 124 % 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	320	16.0	05/05/2014	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	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	1440	10.0	05/06/2014	ND	212	106	200	4.06	

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 137 % 63.6-154

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 Received: 04/30/2014
 Reported: 05/06/2014
 Project Name: MLMU #98
 Project Number: NONE GIVEN
 Project Location: JAL, NM

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 3' (H401298-13)
BTEX 82608
mg/kg
Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2014	ND	2.17	109	2.00	0.904	
Toluene*	<0.050	0.050	05/05/2014	ND	2.33	117	2.00	2.93	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.25	112	2.00	2.74	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.94	116	6.00	3.25	
Total BTEX	<0.300	0.300	05/05/2014	ND					

Surrogate: Dibromofluoromethane 95.7 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 96.9 % 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	05/05/2014	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	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	<10.0	10.0	05/06/2014	ND	212	106	200	4.06	

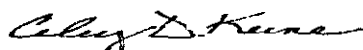
Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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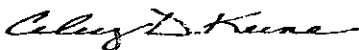
Notes and Definitions

- 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

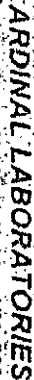
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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