

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

HOBBS OCD

MAR 27 2014

RECEIVED

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	CJ Summers
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	South Mattix Unit Fed #17	Facility Type	

Surface Owner	BLM	Mineral Owner		API No.	30-025-20298
---------------	-----	---------------	--	---------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	15	24S	37E	1980'	N	1980'	E	Lea Co.

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	7 bbls oil, 13 bbls produced water	Volume Recovered	0 bbls
Source of Release	1" steel line to pressure switch at wellhead	Date and Hour of Occurrence	08/12/2013	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 and James Amos- BLM		
By Whom?	Rachael McPherson	Date and Hour	08/13/2013 @ 10:51 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The failure of an one inch steel line to pressure switch at the wellhead released 7 bbls of oil and 13 bbls of produced water onto the ground. No fluids were recovered and the line was repaired/replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected areas are the location pad and the pasture. Remediation was completed in accordance with a remediation plan approved by Geoffrey Leking of NMOCD via email on 10/03/2013 and approved by Jennifer Van Curen of the BLM via email on 10/06/2013.

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 federal, state, or local laws and/or regulations.

Signature:

Printed Name: Chancey Summers

Title: HES Specialist

E-mail Address: Chancey.Summers@oxy.com

Date: 3-24-14

Phone: (575) 397-8216

Appro

APPROVED

Approval Date: 2/3/14 Expiration Date:

Conditions of Approval:

Attached ☐

* Attach Additional Sheets If Necessary

KP 4137

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Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	South Mattix Unit Fed #17	Facility Type	
Surface Owner	BLM	Mineral Owner	
		API No.	30-025-20298

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
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NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	7 bbls oil, 13 bbls produced water	Volume Recovered	0 bbls
Source of Release	1" steel line to pressure switch at wellhead	Date and Hour of Occurrence	08/12/2013	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 and James Amos- BLM		
By Whom?	Rachael McPherson	Date and Hour	08/13/2013 @ 10:51 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

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The affected areas are the location pad and the pasture. Remediation will be completed in accordance with a remediation plan approved by NMOCD and the BLM.

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OIL CONSERVATION DIVISION

Signature: 

Printed Name: Chancey Summers

Approved by District Supervisor:

Title: HES Specialist

Approval Date:

Expiration Date:

E-mail Address: Chancey.Summers@oxy.com

Conditions of Approval:

Attached ☐

Date: 8/22/13 Phone: (575) 397-8216

* Attach Additional Sheets If Necessary

Closure Report

HOBBS OCD

MAR 27 2014

Site Description		RECEIVED
Site Name:	SMU Federal #17	
Company:	Oxy Permian Ltd.	
Legal Description:	U/L G, Section 15, T24S, R37E	
County:	Lea County, NM	
GPS Coordinates:	N 32.21942° W 103.14868°	

Release Data	
Date of Release:	08/12/2013
Type of Release:	Oil and produced water
Source of Release:	1" steel line to pressure switch at well head
Volume of Release:	7 bbls oil and 13 bbls produced water
Volume Recovered:	0 bbls

Remediation Specifications		
Remediation Parameters:	Excavate the area around SP1 to a depth of the surface to 1 foot. Excavate the rest of the spill area to a depth of 4 feet. Obtain confirmation bottom and sidewall samples. Backfill the silt with clean soil.	
Remediation Activities:	03/12/14 to 03/20/14	
Plan Sent to OCD:	10/02/2013	Email from Cliff Brunson to Geoffrey Leking
OCD Approval of Plan:	10/03/2013	Email from Geoffrey Leking to Cliff Brunson
Plan Sent to BLM:	10/03/2013	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	10/06/2013	Email from J. Van Curen to Cliff Brunson

Supporting Documentation	
Initial C-141	Signed 08/22/2013
Final C-141	Signed 03/24/2014
Site Diagram	August 2013
Groundwater Plot	<100'
TOPO Maps	August 2013
Lab Summary	8/28/13 and 3/14/14
Lab Analysis	8/28/13 and 3/14/14
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.	03/26/14

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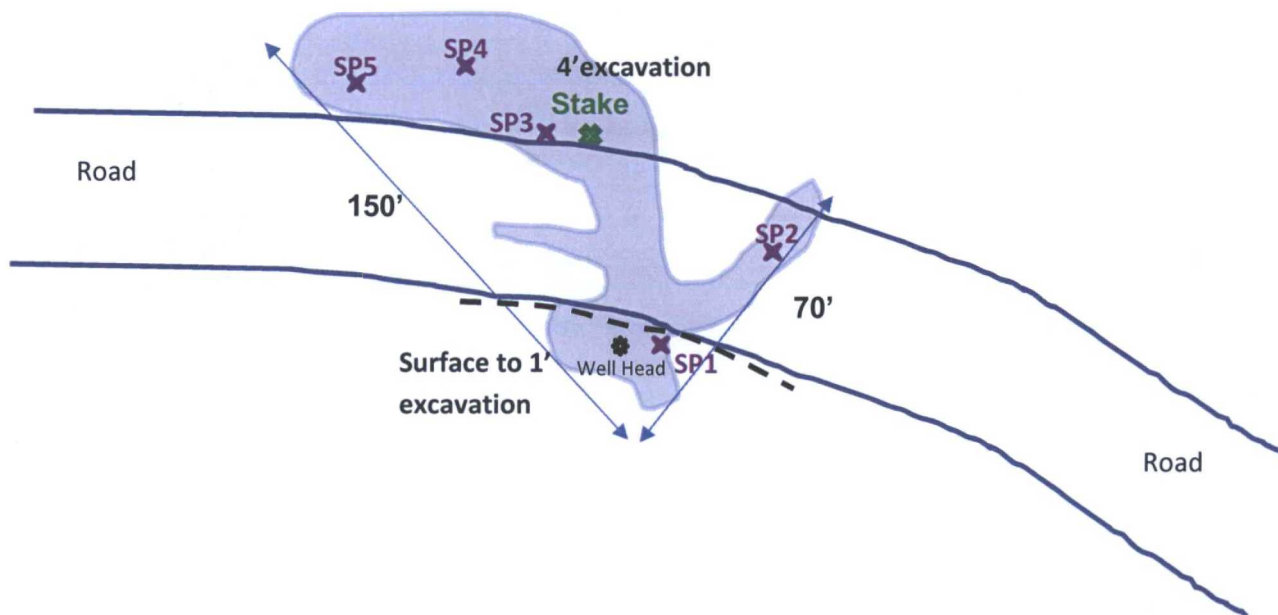
Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Chancey Summers		Approved by District Supervisor:	
Title: HES Specialist		Approval Date:	Expiration Date:
E-mail Address: Chancey.Summers@oxy.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8/22/13	Phone: (575) 397-8216		

* Attach Additional Sheets If Necessary



Oxy

South Mattix Unit Federal #017



U/L G, Section 15, T24S, R37E
Lea County, NM
N 32.21942° W 103.14868°

BBC International, Inc.

Oxy

South Mattix Unit #017

Date: 08/26/2013

DRWG by: JG

NOT TO SCALE

File: Oxy 2013

Groundwater Plot

Oxy SMU Fed #017

County
Lea Co.

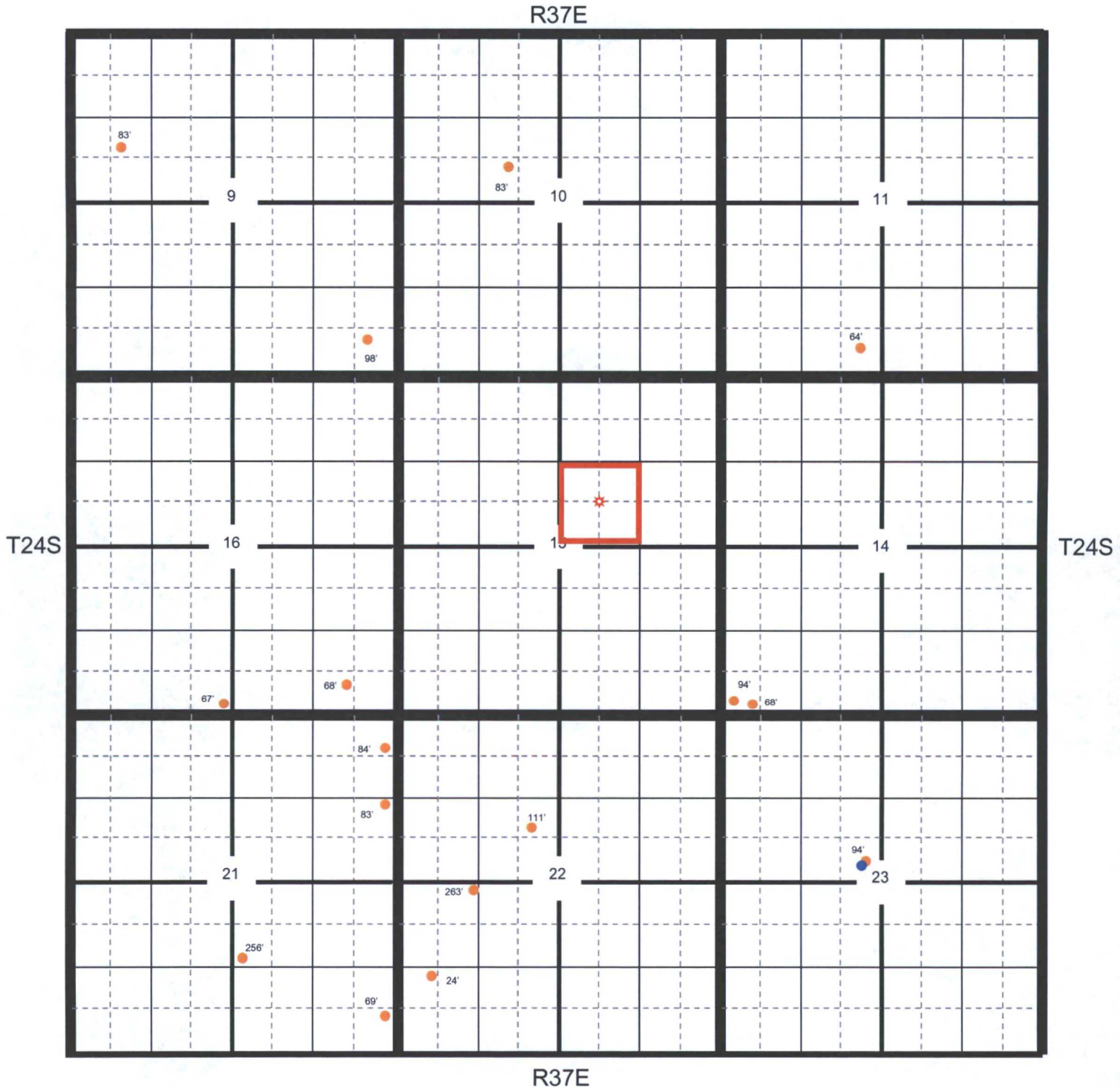
Unit Letter
G

Section
15

Township
24S

Range
37E

Trend Map <100'



★ Location

● OCD

● USGS

● SEO

● All Databases

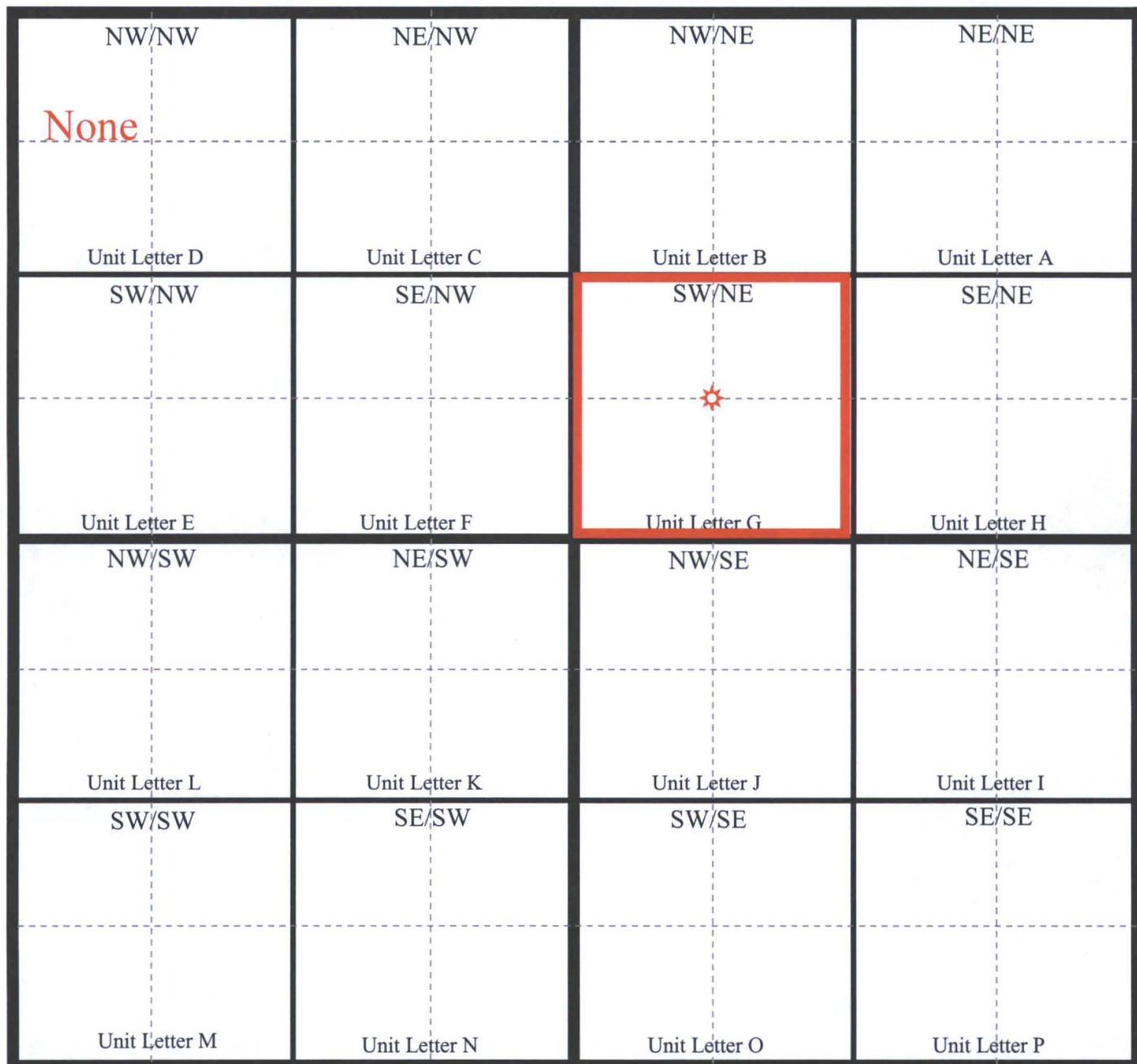
Oxy SMU #017

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

Trend Map <100'

1

2

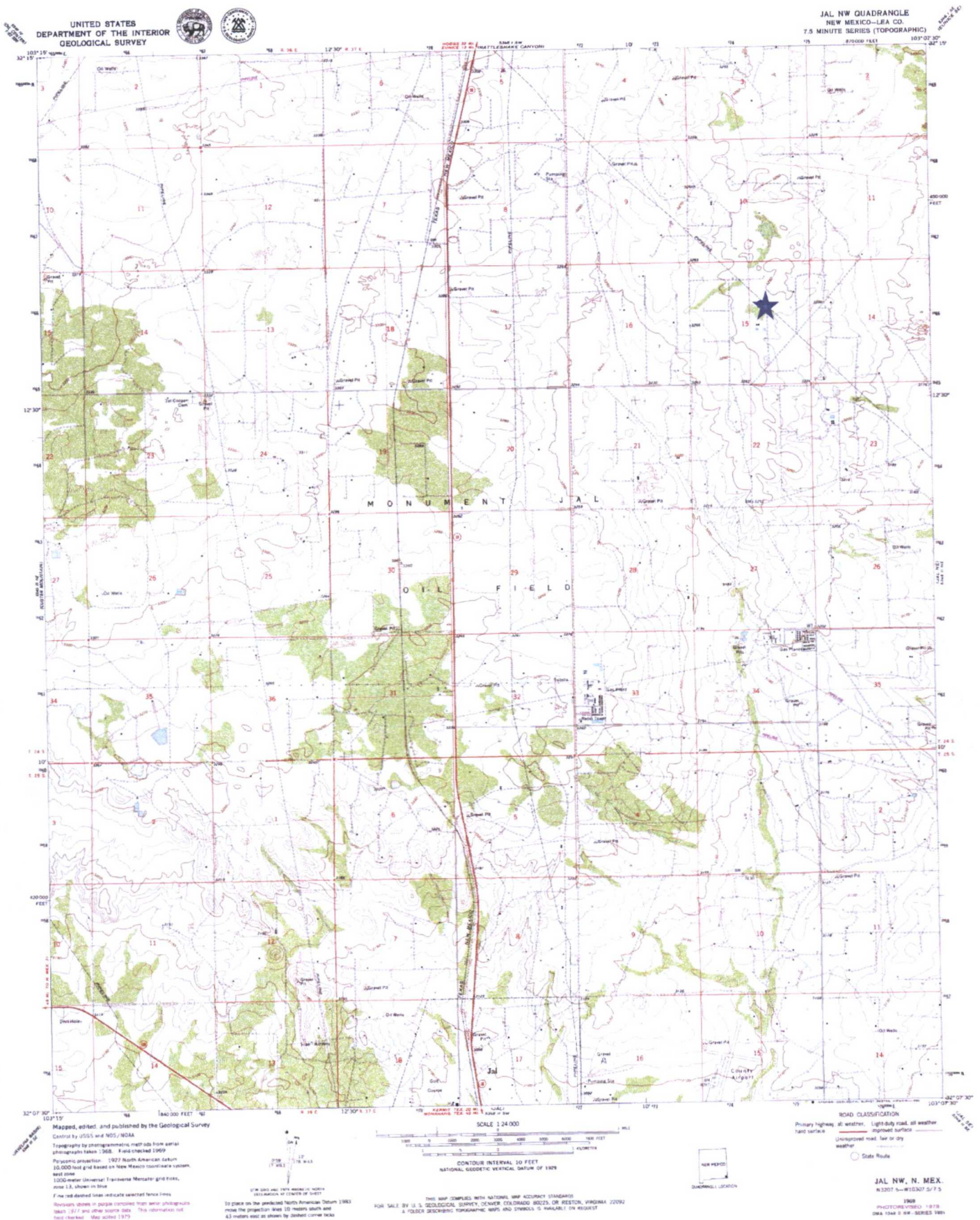


3

4

Oxy

South Mattix Unit #017



South Mattix Unit 017



Laboratory Analytical Results Summary
South Mattix Unit Federal #17

Analyte	Method	Sample Date	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
			8/28/13	8/28/13	8/28/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	n/a	<0.300
Chloride	SM4500Cl-B		144	272	16
GRO	TPH 8015M		<10.0	n/a	<10.0
DRO	TPH 8015M		<10.0	n/a	<10.0

Analyte	Method	Sample Date	SP2 @ 1'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
			8/28/13	8/28/13	8/28/13	8/28/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		5120	4320	816	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		24.5	<10.0	n/a	<10.0

Analyte	Method	Sample Date	SP3 @ 1'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
			8/28/13	8/28/13	8/28/13	8/28/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		6320	4240	976	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		30.1	<10.0	n/a	<10.0

Analyte	Method	Sample Date	SP4 @ 1'	SP4 @ 3'	SP4 @ 4'	SP4 @ 5'
			8/29/13	8/29/13	8/29/13	8/29/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		6000	4480	992	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		28.1	<10.0	n/a	<10.0

Analyte	Method	Sample Date	SP5 @ 1'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'
			8/29/13	8/29/13	8/29/13	8/29/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		6000	3340	944	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		24.9	<10.0	n/a	<10.0

**Laboratory Analytical Results Summary
SMU Federal #17**

Analyte	Method	Sample Date	SIDEWALL 1	SIDEWALL 2	SIDEWALL 3	SIDEWALL 4	BOTTOM
			3/14/14 mg/kg	3/14/14 mg/kg	3/14/14 mg/kg	3/14/14 mg/kg	3/14/14 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		112	64	32	80	48
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0

September 11, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SOUTH MATTIX UNIT FED #017

Enclosed are the results of analyses for samples received by the laboratory on 09/04/13 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H302143-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: AR					

TPH 8015M		mg/kg		Analyzed By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	

Surrogate: 1-Chlorooctane 80.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.8 % 63.6-154

Sample ID: SP 1 @ 2' (H302143-02)

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	09/06/2013	ND	416	104	400	0.00		

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:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3' (H302143-03)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 89.4-126

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	09/06/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 78.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.7 % 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:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' (H302143-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5120	16.0	09/06/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	24.5	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 90.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.6 % 63.6-154

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

Received:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 3' (H302143-05)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4320	16.0	09/06/2013	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: AR							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 79.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.4 % 63.6-154

Sample ID: SP 2 @ 4' (H302143-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	09/06/2013	ND	416	104	400	0.00		

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Analytical Results For:

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Cliff Brunson
P.O. Box 805
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Fax To: (575) 397-0397

Received:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP2 @ 5' (H302143-07)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 89.4-126

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	09/06/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 77.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.6 % 63.6-154

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Received:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H302143-08)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6320	16.0	09/06/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	30.1	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 86.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.0 % 63.6-154

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Received: 09/04/2013
Reported: 09/11/2013
Project Name: SOUTH MATTIX UNIT FED #017
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/28/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 3' (H302143-09)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	09/06/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 80.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.1 % 63.6-154

Sample ID: SP 3 @ 4' (H302143-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	09/06/2013	ND	416	104	400	0.00		

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Analytical Results For:

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Fax To: (575) 397-0397

Received:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 5' (H302143-11)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 89.4-126

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	09/06/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 79.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.7 % 63.6-154

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

Received:	09/04/2013	Sampling Date:	08/29/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 1' (H302143-12)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 89.4-126

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	09/06/2013	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: AR							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	28.1	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 85.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.2 % 63.6-154

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

Received:	09/04/2013	Sampling Date:	08/29/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 3' (H302143-13)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	09/06/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	

Surrogate: 1-Chlorooctane 84.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.1 % 63.6-154

Sample ID: SP 4 @ 4' (H302143-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	09/06/2013	ND	416	104	400	0.00	

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Fax To: (575) 397-0397

Received:	09/04/2013	Sampling Date:	08/29/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 5' (H302143-15)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 89.4-126

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	09/06/2013	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: AR							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 69.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 69.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/04/2013	Sampling Date:	08/29/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 1' (H302143-16)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 112 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	09/06/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	24.9	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 84.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.0 % 63.6-154

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Analytical Results For:

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

Received: 09/04/2013
Reported: 09/11/2013
Project Name: SOUTH MATTIX UNIT FED #017
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/29/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 3' (H302143-17)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3340	16.0	09/06/2013	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: AR				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	

Surrogate: 1-Chlorooctane 83.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.0 % 63.6-154

Sample ID: SP 5 @ 4' (H302143-18)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	09/06/2013	ND	416	104	400	0.00	

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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:	09/04/2013	Sampling Date:	08/29/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 5' (H302143-19)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 89.4-126

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	09/06/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	

Surrogate: 1-Chlorooctane 78.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.8 % 63.6-154

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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

March 18, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SMU #17

Enclosed are the results of analyses for samples received by the laboratory on 03/17/14 8:30.

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: 03/17/2014
Reported: 03/18/2014
Project Name: SMU #17
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SIDEWALL #1 (H400791-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2014	ND	2.32	116	2.00	2.90		
Toluene*	<0.050	0.050	03/17/2014	ND	2.21	110	2.00	2.66		
Ethylbenzene*	<0.050	0.050	03/17/2014	ND	2.16	108	2.00	2.78		
Total Xylenes*	<0.150	0.150	03/17/2014	ND	6.27	104	6.00	2.30		
Total BTEX	<0.300	0.300	03/17/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/17/2014	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: ms					

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	03/17/2014	ND	217	108	200	2.29	
DRO >C10-C28	<10.0	10.0	03/17/2014	ND	213	107	200	1.57	

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Analytical Results For:

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

Received: 03/17/2014
Reported: 03/18/2014
Project Name: SMU #17
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SIDEWALL #2 (H400791-02)

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	03/17/2014	ND	2.32	116	2.00	2.90		
Toluene*	<0.050	0.050	03/17/2014	ND	2.21	110	2.00	2.66		
Ethylbenzene*	<0.050	0.050	03/17/2014	ND	2.16	108	2.00	2.78		
Total Xylenes*	<0.150	0.150	03/17/2014	ND	6.27	104	6.00	2.30		
Total BTEX	<0.300	0.300	03/17/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

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	03/17/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/17/2014	ND	217	108	200	2.29		
DRO >C10-C28	<10.0	10.0	03/17/2014	ND	213	107	200	1.57		

Surrogate: 1-Chlorooctane 93.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.1 % 63.6-154

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Analytical Results For:

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

Received: 03/17/2014
Reported: 03/18/2014
Project Name: SMU #17
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SIDEWALL #3 (H400791-03)

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	03/17/2014	ND	2.32	116	2.00	2.90		
Toluene*	<0.050	0.050	03/17/2014	ND	2.21	110	2.00	2.66		
Ethylbenzene*	<0.050	0.050	03/17/2014	ND	2.16	108	2.00	2.78		
Total Xylenes*	<0.150	0.150	03/17/2014	ND	6.27	104	6.00	2.30		
Total BTEX	<0.300	0.300	03/17/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 89.4-126

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	03/17/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2014	ND	217	108	200	2.29	
DRO >C10-C28	<10.0	10.0	03/17/2014	ND	213	107	200	1.57	

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Analytical Results For:

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

Received: 03/17/2014
Reported: 03/18/2014
Project Name: SMU #17
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SIDEWALL #4 (H400791-04)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2014	ND	2.32	116	2.00	2.90		
Toluene*	<0.050	0.050	03/17/2014	ND	2.21	110	2.00	2.66		
Ethylbenzene*	<0.050	0.050	03/17/2014	ND	2.16	108	2.00	2.78		
Total Xylenes*	<0.150	0.150	03/17/2014	ND	6.27	104	6.00	2.30		
Total BTEX	<0.300	0.300	03/17/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/17/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2014	ND	217	108	200	2.29	
DRO >C10-C28	<10.0	10.0	03/17/2014	ND	213	107	200	1.57	

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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

Received: 03/17/2014
Reported: 03/18/2014
Project Name: SMU #17
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BOTTOM (H400791-05)

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	03/17/2014	ND	2.32	116	2.00	2.90		
Toluene*	<0.050	0.050	03/17/2014	ND	2.21	110	2.00	2.66		
Ethylbenzene*	<0.050	0.050	03/17/2014	ND	2.16	108	2.00	2.78		
Total Xylenes*	<0.150	0.150	03/17/2014	ND	6.27	104	6.00	2.30		
Total BTEX	<0.300	0.300	03/17/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

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	03/17/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/18/2014	ND	217	108	200	2.29		
DRO >C10-C28	<10.0	10.0	03/18/2014	ND	213	107	200	1.57		

Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

141

Company Name: BBC International Inc.					BILL TO					ANALYSIS REQUEST							
Project Manager: Cliff Brunson																	
Address: P.O. Box 805																	
City: Hobbs					State: NM	Zip: 88241				Attn:							
Phone #: 575-397-6388					Fax #: 575-397-0397				Address: S.A.M.E.								
Project #:					Project Owner: DRY				City:								
Project Name: SMD # 17					State:	ZIP:											
Project Location:					Phone #:												
Sample Name: FERGIE Hernandez					Fax #:												
<small>(FOR LAB USE ONLY)</small>																	
Lab I.D.	Sample I.D.	(GRAB OR) (C)OMP	# CONTAINERS	MATRIX			PRESERV	SAMPLING									
				GROUNDWATER	WASTEWATER	SOIL	OIL ?	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	TPH	BTEX	CL-
H400791	SIDEWALL # 1	G	1										5.14.14	100	✓	✓	✓
	SIDEWALL # 2	G	1										5.14.14	108	✓	✓	✓
	SIDEWALL # 3	G	1										5.14.14	110	✓	✓	✓
	SIDEWALL # 4	G	1										5.14.14	115	✓	✓	✓
	BOTTOM																

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Relinquished By: FERGIE Hernandez		Date: 5.17.14	Received By: CLIFF BRUNSON
Time: 3:30		Date:	
Relinquished By:		Date:	
Time:		Received By:	

Delivered By: (Circle One)
☐ Driver ☒ Other
Sample Condition: Gool Intact Yes ☒ No ☐
CHECKED BY: [Signature]

REMARKS:
RUSH

Phone Result: ☐ Yes ☐ No **Add'l Phone #:**
Fax Result: ☐ Yes ☐ No **Add'l Fax #:**

Kathy Purvis

From: Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>
Sent: Thursday, October 03, 2013 2:06 PM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY-South Mattix Unit Federal #017-Remediation Plan

Cliff

RE: OXY-South Mattix Unit Federal #017-Remediation Plan

The remediation plan is approved as discussed at the September 25, 2013 meeting as detailed in your email below.

Please include all attachments to the email below in your closure report. Thank you.

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

From: Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Wednesday, October 02, 2013 3:24 PM
To: Leking, Geoffrey R, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY-South Mattix Unit Federal #017-Remediation Plan

Geoff,

This message is to confirm our discussion on September 25, 2013 concerning the remediation plan for the Oxy South Mattix Unit Federal #017 site. I have attached the site diagram and lab data summary table that we used in our discussion. As mutually agreed, Oxy will excavate to a depth of surface to 1 foot in the area around SP1 as depicted on the attached diagram. In the rest of the spill area, the excavation will be to 4 feet as shown on the diagram. The site will then be backfilled with clean soil.

If you would please reply back via e-mail with your concurrence to 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: Van Curen, Jennifer <jvancure@blm.gov>
Sent: Sunday, October 06, 2013 8:09 PM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Re: OXY-South Mattix Unit (SMU) Federal #017-Remediation Plan

Cliff,

You have the go ahead on this one. Please get me some bottom and sidewall samples. thanks

JENNIFER E VAN CUREN
ENVIRONMENTAL PROTECTION SPECIALIST
DOI-BLM-CARLSBAD FIELD OFFICE
320 E GREENE ST. CARLSBAD, NM 88220
OFFICE- 575-234-5905
CELL - 575-361-0042
FAX - 575-234-5927

On Thu, Oct 3, 2013 at 10:46 AM, Cliff P. Brunson <cbrunson@bbcinternational.com> wrote:
Jennifer,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Geoffrey Leking of the NMOCD. Oxy will excavate to a depth of surface to 1 foot in the area around SP1 as depicted on the attached diagram. In the rest of the spill area, the excavation will be to 4 feet as shown on the diagram. The site will then be backfilled with clean soil.

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

Thanks, Cliff

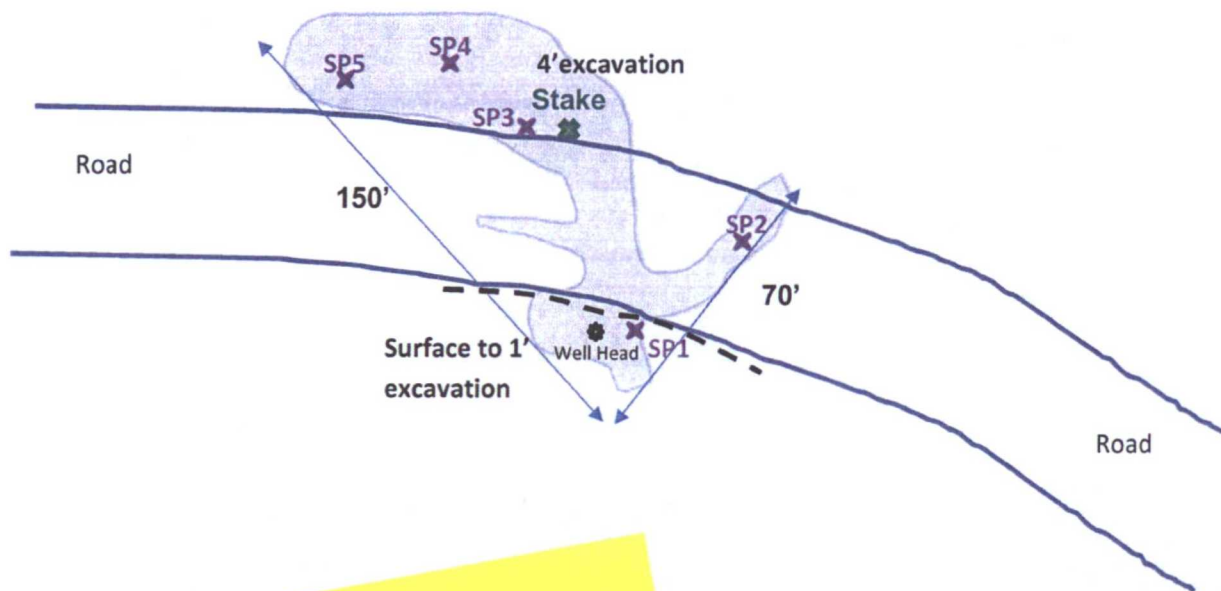
Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
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Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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Oxy

South Mattix Unit Federal #017



U/L G, Section 15, T24S, R37E
Lea County, NM
N 32.21942° W 103.14868°

BBC International, Inc.

Oxy

South Mattix Unit #017

Date: 08/26/2013

DRWG by: JG

NOT TO SCALE

File: Oxy 2013



Groundwater Plot

Oxy SMU Fed #017

County
Lea Co.

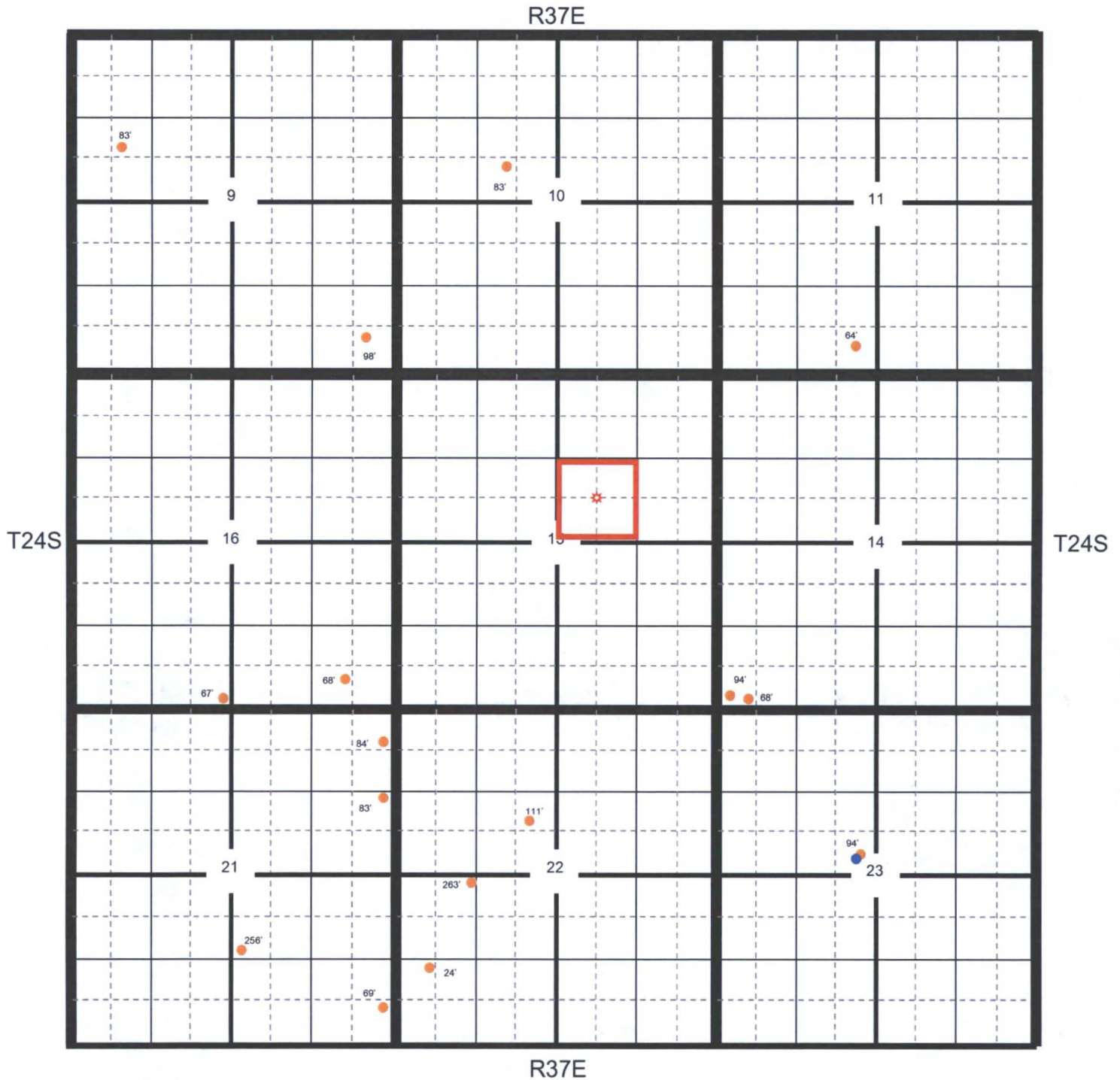
Unit Letter
G

Section
15

Township
24S

Range
37E

Trend Map <100'



★ Location

● OCD

● USGS

● SEO

● All Databases

Section Quarters

Oxy SMU #017

County
Lea

Unit Letter
G

Section
15

Township
24S

Range
37E

Trend Map <100'

1

2

NW/NW None	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

⚙ Location

● OCD

● USGS

● SEO

● All Databases

Laboratory Analytical Results Summary
South Mattix Unit Federal #17

Analyte	Method	Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
		Date	8/28/13	8/28/13	8/28/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	n/a	<0.300
Chloride	SM4500Cl-B		144	272	16
GRO	TPH 8015M		<10.0	n/a	<10.0
DRO	TPH 8015M		<10.0	n/a	<10.0

Analyte	Method	Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
		Date	8/28/13	8/28/13	8/28/13	8/28/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		5120	4320	816	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		24.5	<10.0	n/a	<10.0

Analyte	Method	Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
		Date	8/28/13	8/28/13	8/28/13	8/28/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		6320	4240	976	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		30.1	<10.0	n/a	<10.0

Analyte	Method	Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 4'	SP4 @ 5'
		Date	8/29/13	8/29/13	8/29/13	8/29/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		6000	4480	992	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		28.1	<10.0	n/a	<10.0

Analyte	Method	Sample	SP5 @ 1'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'
		Date	8/29/13	8/29/13	8/29/13	8/29/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		6000	3340	944	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		24.9	<10.0	n/a	<10.0

September 11, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SOUTH MATTIX UNIT FED #017

Enclosed are the results of analyses for samples received by the laboratory on 09/04/13 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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: 09/04/2013
Reported: 09/11/2013
Project Name: SOUTH MATTIX UNIT FED #017
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/28/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H302143-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: AR						

TPH 8015M		mg/kg		Analyzed By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	

Surrogate: 1-Chlorooctane 80.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.8 % 63.6-154

Sample ID: SP 1 @ 2' (H302143-02)

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	09/06/2013	ND	416	104	400	0.00		

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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:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3' (H302143-03)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 89.4-126

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	09/06/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	

Surrogate: 1-Chlorooctane 78.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.7 % 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:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' (H302143-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5120	16.0	09/06/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	24.5	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 90.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.6 % 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:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 3' (H302143-05)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 89.4-126

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4320	16.0	09/06/2013	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: AR							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 79.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.4 % 63.6-154

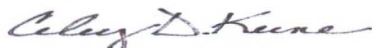
Sample ID: SP 2 @ 4' (H302143-06)

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	09/06/2013	ND	416	104	400	0.00		

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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:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP2 @ 5' (H302143-07)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

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	09/06/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 77.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.6 % 63.6-154

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

Received:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H302143-08)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6320	16.0	09/06/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	30.1	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 86.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.0 % 63.6-154

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Received:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 3' (H302143-09)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	09/06/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 80.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.1 % 63.6-154

Sample ID: SP 3 @ 4' (H302143-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	09/06/2013	ND	416	104	400	0.00		

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Received:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 5' (H302143-11)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 89.4-126

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	09/06/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 79.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.7 % 63.6-154

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Received:	09/04/2013	Sampling Date:	08/29/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 1' (H302143-12)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	09/06/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	28.1	10.0	09/06/2013	ND	196	98.0	200	2.92	

Surrogate: 1-Chlorooctane 85.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.2 % 63.6-154

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Cliff Brunson
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Fax To: (575) 397-0397

Received: 09/04/2013
Reported: 09/11/2013
Project Name: SOUTH MATTIX UNIT FED #017
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/29/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 3' (H302143-13)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: AR					

TPH 8015M		mg/kg		Analyzed By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	

Surrogate: 1-Chlorooctane 84.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.1 % 63.6-154

Sample ID: SP 4 @ 4' (H302143-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	09/06/2013	ND	416	104	400	0.00		

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

Received:	09/04/2013	Sampling Date:	08/29/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 5' (H302143-15)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 112 % 89.4-126

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	09/06/2013	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: AR							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 69.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 69.8 % 63.6-154

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Fax To: (575) 397-0397

Received:	09/04/2013	Sampling Date:	08/29/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 1' (H302143-16)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 112 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	09/06/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	24.9	10.0	09/06/2013	ND	196	98.0	200	2.92	

Surrogate: 1-Chlorooctane 84.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/04/2013	Sampling Date:	08/29/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 3' (H302143-17)

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	09/09/2013	ND	2.11	106	2.00	7.67		
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92		
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93		
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30		
Total BTEX	<0.300	0.300	09/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3340	16.0	09/06/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20		
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92		

Surrogate: 1-Chlorooctane 83.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.0 % 63.6-154

Sample ID: SP 5 @ 4' (H302143-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	09/06/2013	ND	416	104	400	0.00		

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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:	09/04/2013	Sampling Date:	08/29/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	SOUTH MATTIX UNIT FED #017	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 5' (H302143-19)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 89.4-126

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	09/06/2013	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: AR				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	

Surrogate: 1-Chlorooctane 78.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.8 % 63.6-154

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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



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

142

Company Name: BBC International, Inc.		P.O. #:		ANALYSIS REQUEST		
Project Manager: Cliff Brunson		Company:				
Address: P.O. Box 805		Attn:				
City: Hobbs		State: NM Zip: 88241				
Phone #: 575-397-6388		Fax #: 575-397-0397				
Project #:		Project Owner: DWD				
Project Name: South Mattie Unit #017		City:				
Project Location:		State:				
Sample Name:		Phone #:				
FOR LAB USE ONLY		Fax #:				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING
H302143						
1	SP1 @ 1'					
2	SP2 @ 2'					
3	SP3 @ 3'					
4	SP4 @ 4'					
5	SP5 @ 5'					
6	SP6 @ 6'					
7	SP7 @ 7'					
8	SP8 @ 8'					
9	SP9 @ 9'					
10	SP10 @ 10'					
		DATE	TIME	CHLORIDE TPH BTEX		
		8-28-13	11:25			
		8-28-13	11:48			
		8-28-13	12:08			
		8-28-13	12:34			
		8-28-13	10:08			
		8-28-13	11:17			
		8-28-13	12:49			
		8-28-13	15:29			
		8-28-13	22:25			
		8-28-13	22:32			
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Relinquished By: [Signature]		Date: 9/4/13	Received By: [Signature]	REMARKS:		
Time: 5:06 PM				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		
Relinquished By: [Signature]		Date: 9/4/13	Received By: [Signature]	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:		
Time: 5:06 PM						
Delivered By: (Circle One) [Signature]		Type: 4:50	Specimen: [Signature]			
Sampler - UPS - Bus - Other:		Sample Condition	CHECKED BY: [Signature]			
		Cool / Retain?				
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				

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(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 18 of 18

Company Name: BBC International, Inc.				P.O. #:	
Project Manager: Cliff Brunson				Company:	
Address: P.O. Box 805				Attn:	
City: Hobbs	State: NM	Zip: 88241			
Phone #: 575-397-6388	Fax #: 575-397-0397	Address: SAME			
Project #:	Project Owner: City	City:			
Project Name: South Matrix Unit Fracture	State:	Zip:			
Project Location: Hwy # 128	Phone #:				
Sampler Name: Roger Hernandez	Fax #:				
FOR LAB USE ONLY		MATRIX	PRESERV	SAMPLING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	DATE TIME	
H3D214B	SP3 @ 5'	G 1 ✓	✓	8-18-13 948	CHLORIDE
	12 SP4 @ 1'	C 1 ✓	✓	8-18-13 1215	TDPH
	13 SP4 @ 3'	C 1 ✓	✓	8-28-13 1746	BTEX
	14 C 4'	C 1 ✓	✓	8-28-13 100	
	15 C 5'	C 1 ✓	✓	8-28-13 108	
	16 SP5 @ 1'	C 1 ✓	✓	8-29-13 134	
	17 C 3'	C 1 ✓	✓	8-29-13 105	
	18 C 4'	C 1 ✓	✓	8-29-13 212	
	19 C 5'	C 1 ✓	✓	8-29-13 219	

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Relinquished By: [Signature]		Date: 8-4-'13	Received By: [Signature]
Relinquished By: [Signature]		Time: 5:00A	
Delivered By: (Circle One) UPS Bus Other:		Date: 8-4-'13	Received By: [Signature]
Time:		Checked By: [Signature] (Initials)	
Remarks:		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:	
		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:	

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