

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

HOBBS OCD P J X K 1535150101  
4831

FEB 07 2014

Form C-141  
Revised August 8, 2011

Submit to appropriate District Office in  
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

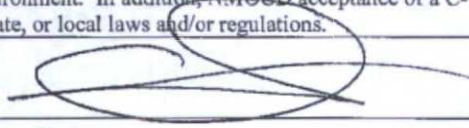
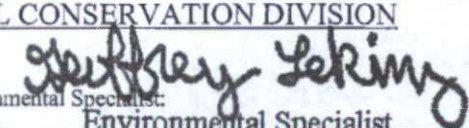
Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	MLMU #247	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	
		API No.	30-025-11044

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	7	24S	37E	550	South	660	East	Lea

Latitude N 32.23288° Longitude W 103.20615°

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	30 bbls	Volume Recovered	0 bbls
Source of Release	Flow line leak	Date and Hour of Occurrence	07/15/2013	Date and Hour of Discovery	07/15/2013
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, James Amos- BLM		
By Whom?	Chancey Summers	Date and Hour	07/15/2013 @ 10:17 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.*					
A leak in a flow line caused 30 bbls of produced water to leak onto the ground. No fluids were recovered and the line was repaired.					
Describe Area Affected and Cleanup Action Taken.*					
The affected area is approximately 140' x 40'. Remediation was completed in accordance with the 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 relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Signature:					
Printed Name:	Chancey Summers	Approved by Environmental Specialist:  Environmental Specialist			
Title:	HES Specialist	Approval Date:	02/07/14	Expiration Date:	-
E-mail Address:	Chancey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>	
Date:	3.5-14	Phone:	(575) 397-8216		

\* Attach Additional Sheets If Necessary



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HOBBS OCD

FEB 07 2014

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

Form C-141  
Revised August 8, 2011

RECEIVED

## 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 #247	Facility Type	Well location

Surface Owner	BLM	Mineral Owner		API No.	30-025-11044
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## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	7	24S	37E	550	South	660	East	Lea

Latitude N 32.23288° Longitude W 103.20615°

## NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	30 bbls	Volume Recovered	0 bbls
Source of Release	Flow line leak	Date and Hour of Occurrence	07/15/2013	Date and Hour of Discovery	07/15/2013
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, James Amos- BLM			
By Whom?	Chancey Summers	Date and Hour 07/15/2013 @ 10:17 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.\*

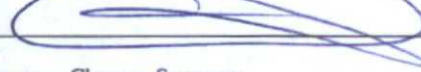
A leak in a flow line caused 30 bbls of produced water to leak onto the ground. No fluids were recovered and the line was repaired.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 140' x 40'. 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	Approval Date:	Expiration Date:	
Title: HES Specialist	Conditions of Approval:		
E-mail Address: <a href="mailto:Chancey.Summers@oxv.com">Chancey.Summers@oxv.com</a>	Attached <input type="checkbox"/>		
Date: 8-6-13	Phone: (575) 397-8216		

\* Attach Additional Sheets If Necessary

DEC 22 2013



Oxy  
MLMU #247

MLMU Satellite #4  
Location

Leak Point



SP1

SP2

SP3  
Stake



SP4

Leak Area  
140' x 40'

SP5

SP6

SP7

Two-track road

U/L P, Section 7, T24S, R37E  
550' FSL and 660' FEL  
Lea County, NM  
N 32.23288° W 103.20615°  
API# 30-025-11044

BBC International, Inc.

Oxy  
MLMU #247

Date: 07/18/2013

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2013

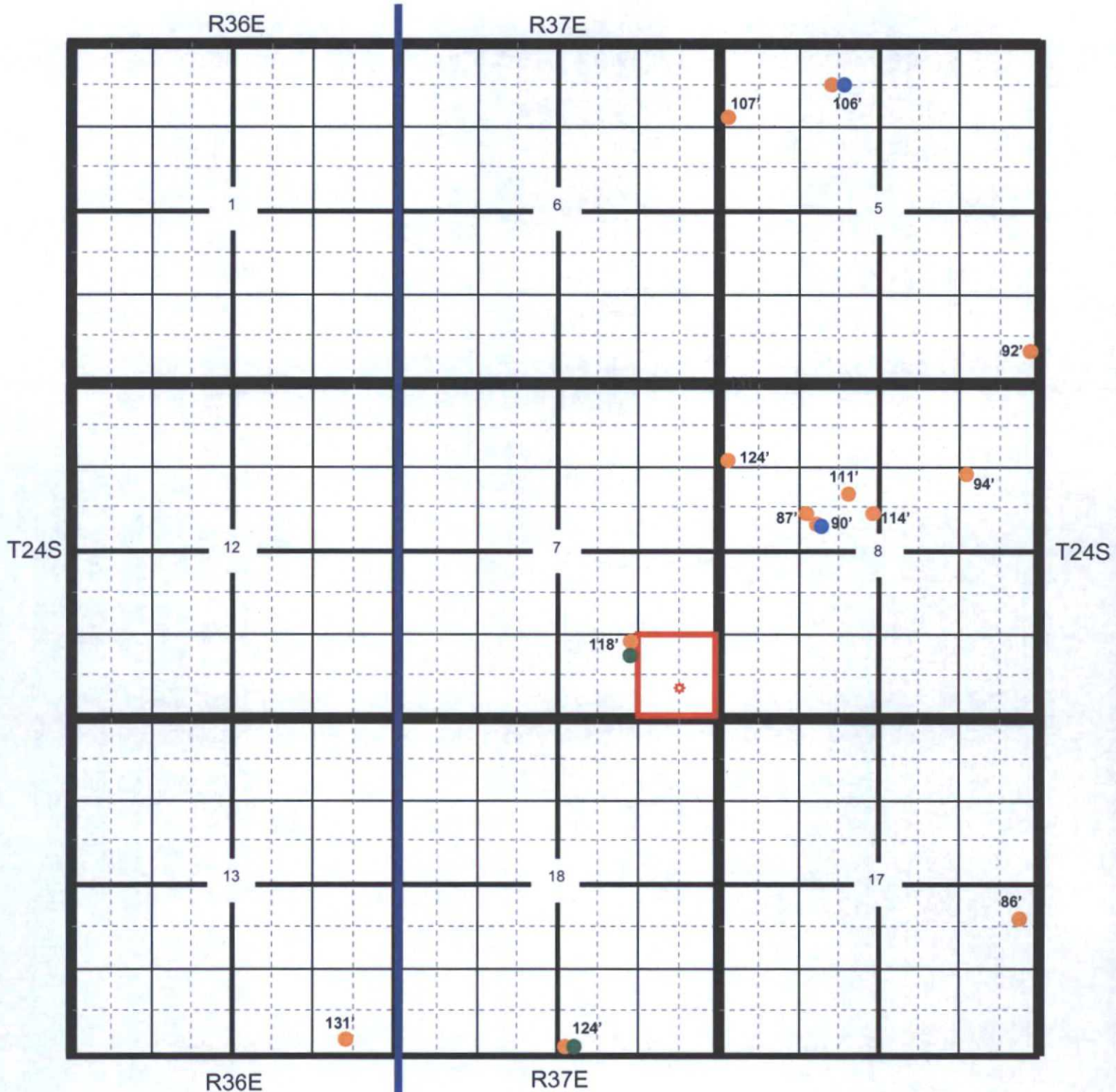


# Groundwater Plot

## Oxy MLMU #247

County Lea County      Unit Letter P      Section 7      Township 24S      Range 37E

Trend Map      100'





# Section Quarters

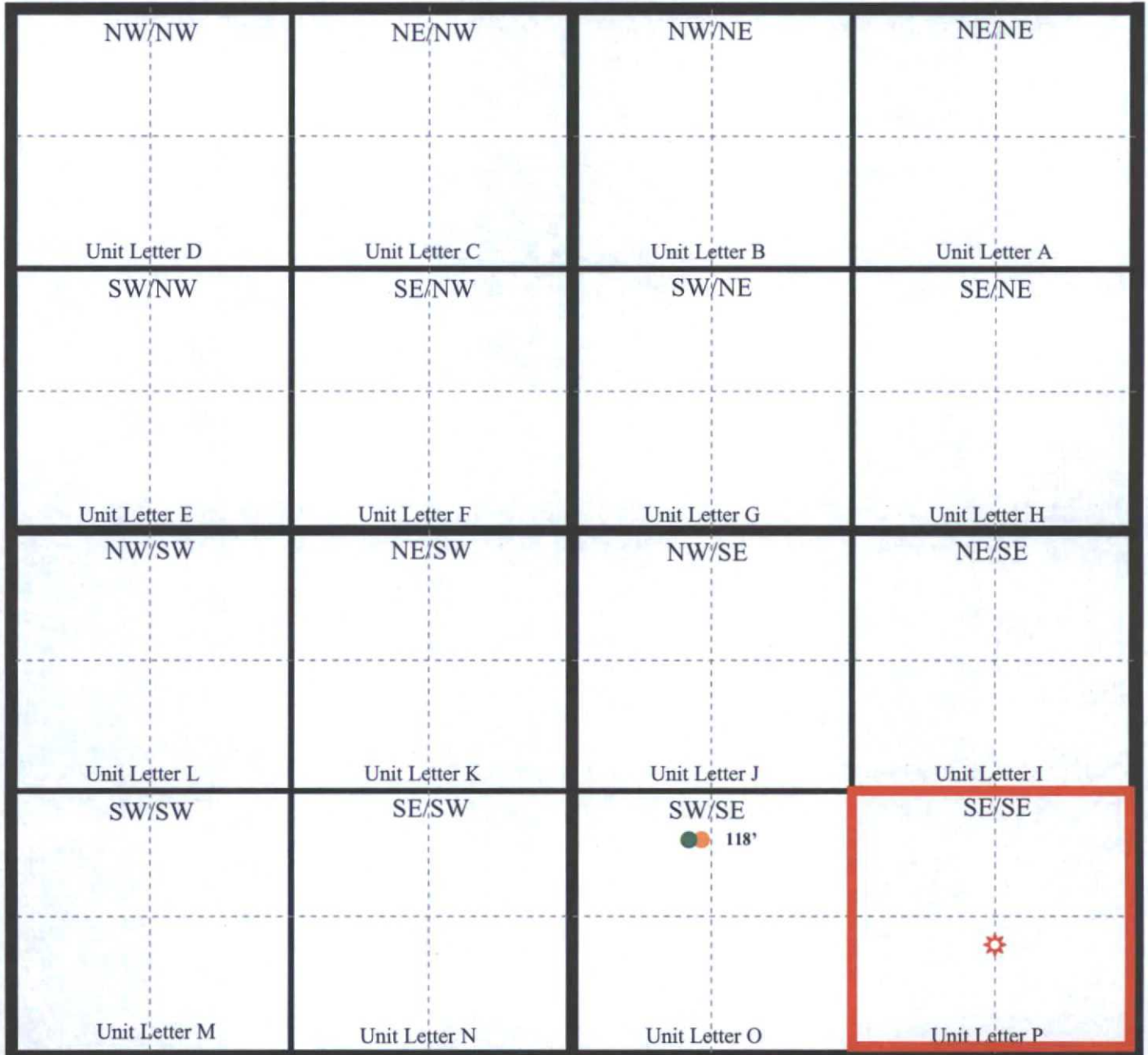
Oxy MLMU #247

County Lea County      Unit Letter P      Section 7      Township 24S      Range 37E

Trend Map 100'

1

2

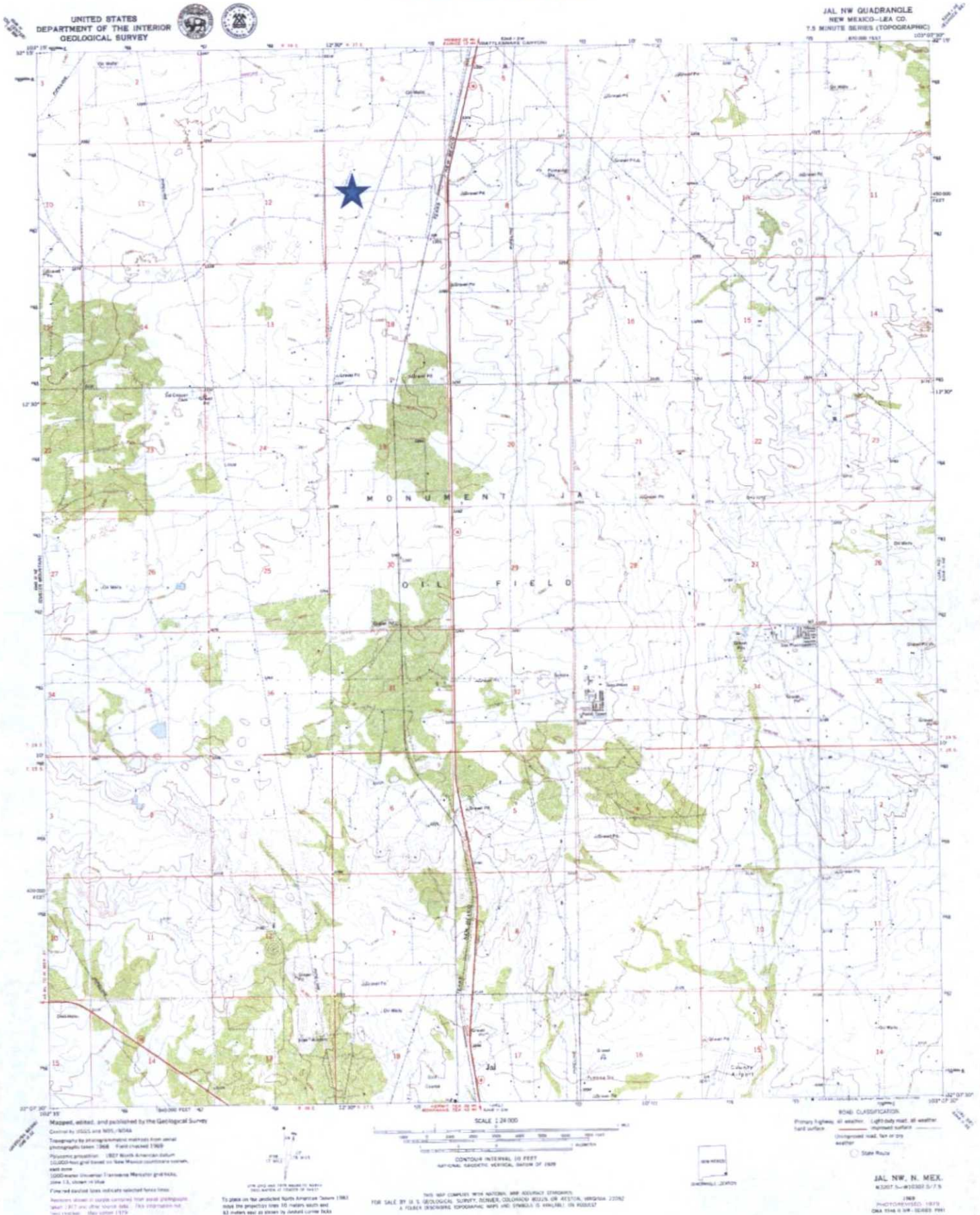


3

4

# Oxy

## MLMU #247







Laboratory Analytical Results Summary  
MLMU #247

Analyte	Method	Sample Date	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 8'	SP1 @ 11'	SP1 @ 12'	SP1 @ 13'
			7/26/13	7/26/13	7/26/13	9/11/13	9/11/13	9/11/13	9/11/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<2.00	8.8	0.482	<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		18.1	30.5	3	<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		21.8	73.4	8.46	<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		86.6	186	24.5	<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		127	298	36.4	<0.300	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		1230	2320	2000	1710	608	288	64
GRO	TPH 8015M		1860	3150	317	<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		9300	9910	2960	<10.0	<10.0	n/a	<10.0

Analyte	Method	Sample Date	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 8'	SP2 @ 11'	SP2 @ 12'	SP2 @ 13'
			7/26/13	7/26/13	7/26/13	9/11/13	9/11/13	9/11/13	9/11/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<2.00	3.38	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		18	20	0.124	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		21.4	15.8	0.062	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		79.3	96.2	0.161	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		119	135	0.347	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		992	2280	336	656	592	272	64
GRO	TPH 8015M		1710	2070	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		8730	10400	<10.0	n/a	n/a	n/a	n/a

Analyte	Method	Sample Date	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 8'	SP3 @ 11'	SP3 @ 12'	SP3 @ 13'
			7/26/13	7/26/13	7/26/13	9/11/13	9/11/13	9/11/13	9/11/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		2.72	6.81	2.14	<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		23	44.9	17.4	<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		27.7	67.8	21.1	<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		106	178	78.1	<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		159	297	119	<0.300	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		928	2160	976	768	592	288	80
GRO	TPH 8015M		1860	3530	1640	<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		8420	12000	7860	<10.0	<10.0	n/a	<10.0

Analyte	Method	Sample Date	SP4 @ 1'	SP4 @ 3'	SP4 @ 5'	SP4 @ 8'	SP4 @ 11'	SP4 @ 12'	SP4 @ 13'
			7/26/13	7/26/13	7/26/13	9/11/13	9/11/13	9/11/13	9/11/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<1.00	<1.00	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		0.612	5.27	5.02	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		1.12	17.4	15.4	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		6.91	66.8	61.8	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		8.64	89.5	82.2	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		608	1940	1960	800	528	288	64
GRO	TPH 8015M		194	971	51.1	n/a	n/a	n/a	n/a
DRO	TPH 8015M		21900	8900	540	n/a	n/a	n/a	n/a



Laboratory Analytical Results Summary  
MLMU #247

Analyte	Method	Sample Date	SP5 @ 1'	SP5 @ 3'	SP5 @ 5'	SP5 @ 7'
			7/29/13	7/29/13	7/29/13	9/13/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<.400	<0.050	<0.050	n/a
Toluene	BTEX 8021B		2.84	0.905	0.848	n/a
Ethylbenzene	BTEX 8021B		2.89	2.16	2.37	n/a
Total Xylenes	BTEX 8021B		41.7	9.46	9.61	n/a
Total BTEX	BTEX 8021B		47.4	12.5	12.8	n/a
Chloride	SM4500Cl-B		1230	2440	2480	704
GRO	TPH 8015M		50.9	16.4	10.9	n/a
DRO	TPH 8015M		911	222	122	n/a

Analyte	Method	Sample Date	SP6 @ 1'	SP6 @ 3'	SP6 @ 5'	SP6 @ 7'
			7/29/13	7/29/13	7/29/13	9/13/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.802	0.212	<0.050	n/a
Toluene	BTEX 8021B		3.09	2.17	0.35	n/a
Ethylbenzene	BTEX 8021B		22.9	4.67	0.765	n/a
Total Xylenes	BTEX 8021B		62.9	16.2	3.24	n/a
Total BTEX	BTEX 8021B		89.8	23.2	4.35	n/a
Chloride	SM4500Cl-B		1250	2280	2320	432
GRO	TPH 8015M		305	27.3	<10.0	n/a
DRO	TPH 8015M		3290	354	128	n/a

Analyte	Method	Sample Date	SP7 @ 1'	SP7 @ 3'	SP7 @ 5'	SP7 @ 7'
			7/29/13	7/29/13	7/29/13	9/13/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.636	0.243	0.124	n/a
Toluene	BTEX 8021B		3.07	2.02	1.7	n/a
Ethylbenzene	BTEX 8021B		24.3	7.8	6.94	n/a
Total Xylenes	BTEX 8021B		67.3	27.7	24.9	n/a
Total BTEX	BTEX 8021B		95.3	37.8	33.7	n/a
Chloride	SM4500Cl-B		1140	2440	1920	720
GRO	TPH 8015M		261	38.2	34.8	n/a
DRO	TPH 8015M		3040	374	369	n/a



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

HOBBS OCD

FEB 07 2014

RECEIVED

August 05, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #247

Enclosed are the results of analyses for samples received by the laboratory on 07/30/13 16:55.

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](http://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: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H301799-01)**

BTX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	08/01/2013	ND	1.99	99.6	2.00	0.870	
Toluene*	18.1	2.00	08/01/2013	ND	1.94	97.1	2.00	0.758	
Ethylbenzene*	21.8	2.00	08/01/2013	ND	2.02	101	2.00	1.31	
Total Xylenes*	86.6	6.00	08/01/2013	ND	6.10	102	6.00	1.72	
Total BTX	127	12.0	08/01/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 121 % 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	1230	16.0	08/01/2013	ND	416	104	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	1860	50.0	08/01/2013	ND	183	91.5	200	10.9	
DRO >C10-C28	9300	50.0	08/01/2013	ND	190	95.0	200	10.7	

Surrogate: 1-Chlorooctane 171 % 65.2-140

Surrogate: 1-Chlorooctadecane 270 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 3' (H301799-02)**

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.80	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06	
Toluene*	30.5	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74	
Ethylbenzene*	73.4	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72	
Total Xylenes*	186	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06	
Total BTEX	298	12.0	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 116 % 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	2320	16.0	08/01/2013	ND	416	104	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
S-06									

Surrogate: 1-Chlorooctane 176 % 65.2-140

Surrogate: 1-Chlorooctadecane 284 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 5' (H301799-03)**

BTEX 8021B		mg/kg	Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.482	0.200	08/02/2013	ND	1.93	96.5	2.00	8.06	
Toluene*	3.00	0.200	08/02/2013	ND	1.86	92.9	2.00	8.74	
Ethylbenzene*	8.46	0.200	08/02/2013	ND	1.98	99.0	2.00	8.72	
Total Xylenes*	24.5	0.600	08/02/2013	ND	5.80	96.7	6.00	9.06	
Total BTEX	36.4	1.20	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 146 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	08/01/2013	ND	416	104	400	3.92	
TPH 8015M									

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	317	50.0	08/01/2013	ND	183	91.5	200	10.9	
DRO >C10-C28	2960	50.0	08/01/2013	ND	190	95.0	200	10.7	

Surrogate: 1-Chlorooctane 128 % 65.2-140

Surrogate: 1-Chlorooctadecane 167 % 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: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H301799-04)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.00	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
Toluene*	18.0	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
Ethylbenzene*	21.4	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
Total Xylenes*	79.3	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06		
Total BTEX	119	12.0	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 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	992	16.0	08/01/2013	ND	416	104	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	1710	50.0	08/01/2013	ND	183	91.5	200	10.9	
DRO >C10-C28	8730	50.0	08/01/2013	ND	190	95.0	200	10.7	

Surrogate: 1-Chlorooctane 161 % 65.2-140

Surrogate: 1-Chlorooctadecane 284 % 63.6-154

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Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 3' (H301799-05)**

BTEX 80218		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.38	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06	
Toluene*	20.0	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74	
Ethylbenzene*	15.8	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72	
Total Xylenes*	96.2	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06	
Total BTEX	135	12.0	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 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	2280	16.0	08/01/2013	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						S-06

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	2070	50.0	08/01/2013	ND	183	91.5	200	10.9	
DRO >C10-C28	10400	50.0	08/01/2013	ND	190	95.0	200	10.7	

Surrogate: 1-Chlorooctane 163 % 65.2-140

Surrogate: 1-Chlorooctadecane 308 % 63.6-154

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 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 5' (H301799-06)**

BTX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2013	ND	1.93	96.5	2.00	8.06	
Toluene*	0.124	0.050	08/02/2013	ND	1.86	92.9	2.00	8.74	
Ethylbenzene*	0.062	0.050	08/02/2013	ND	1.98	99.0	2.00	8.72	
Total Xylenes*	0.161	0.150	08/02/2013	ND	5.80	96.7	6.00	9.06	
Total BTX	0.347	0.300	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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	336	16.0	08/01/2013	ND	416	104	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	08/01/2013	ND	183	91.5	200	10.9	
DRO >C10-C28	<10.0	10.0	08/01/2013	ND	190	95.0	200	10.7	

Surrogate: 1-Chlorooctane 87.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H301799-07)**

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.72	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06	
Toluene*	23.0	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74	
Ethylbenzene*	27.7	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72	
Total Xylenes*	106	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06	
Total BTEX	159	12.0	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 121 % 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	928	16.0	08/01/2013	ND	416	104	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	1860	50.0	08/01/2013	ND	183	91.5	200	10.9	
DRO >C10-C28	8420	50.0	08/01/2013	ND	190	95.0	200	10.7	

Surrogate: 1-Chlorooctane 154 % 65.2-140

Surrogate: 1-Chlorooctadecane 242 % 63.6-154

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Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 3' (H301799-08)**

BTEX 80218		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	6.81	4.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
Toluene*	44.9	4.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
Ethylbenzene*	67.8	4.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
Total Xylenes*	178	12.0	08/02/2013	ND	5.80	96.7	6.00	9.06		
Total BTEX	297	24.0	08/02/2013	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	2160	16.0	08/01/2013	ND	416	104	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	3530	50.0	08/01/2013	ND	183	91.5	200	10.9	
DRO >C10-C28	12000	50.0	08/01/2013	ND	190	95.0	200	10.7	

Surrogate: 1-Chlorooctane 180 % 65.2-140

Surrogate: 1-Chlorooctadecane 346 % 63.6-154

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Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 5' (H301799-09)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	2.14	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
Toluene*	17.4	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
Ethylbenzene*	21.1	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
Total Xylenes*	78.1	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06		
Total BTEX	119	12.0	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 118 % 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	976	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1640	50.0	08/01/2013	ND	183	91.5	200	10.9		
DRO >C10-C28	7860	50.0	08/01/2013	ND	190	95.0	200	10.7		

Surrogate: 1-Chlorooctane 158 % 65.2-140

Surrogate: 1-Chlorooctadecane 228 % 63.6-154

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Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 1' (H301799-10)**

BTEX 8021B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	08/02/2013	ND	1.93	96.5	2.00	8.06	
Toluene*	<b>0.612</b>	0.200	08/02/2013	ND	1.86	92.9	2.00	8.74	
Ethylbenzene*	<b>1.12</b>	0.200	08/02/2013	ND	1.98	99.0	2.00	8.72	
Total Xylenes*	<b>6.91</b>	0.600	08/02/2013	ND	5.80	96.7	6.00	9.06	
Total BTEX	<b>8.64</b>	1.20	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 125 % 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	<b>608</b>	16.0	08/01/2013	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>194</b>	100	08/01/2013	ND	183	91.5	200	10.9	
DRO >C10-C28	<b>21900</b>	100	08/01/2013	ND	190	95.0	200	10.7	

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 953 % 63.6-154

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Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 3' (H301799-11)**

BTEx 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	5.27	1.00	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	17.4	1.00	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	66.8	3.00	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEX	89.5	6.00	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 126 % 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	1940	16.0	08/01/2013	ND	416	104	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
S-06									

Surrogate: 1-Chlorooctane	141 %	65.2-140
Surrogate: 1-Chlorooctadecane	279 %	63.6-154

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Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 5' (H301799-12)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	08/02/2013	ND	2.21	110	2.00	4.37		
Toluene*	5.02	1.00	08/02/2013	ND	2.16	108	2.00	4.56		
Ethylbenzene*	15.4	1.00	08/02/2013	ND	2.29	114	2.00	4.01		
Total Xylenes*	61.8	3.00	08/02/2013	ND	6.88	115	6.00	3.56		
Total BTEX	82.2	6.00	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 123 % 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	1960	16.0	08/01/2013	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	51.1	10.0	08/02/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	540	10.0	08/02/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 86.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 1' (H301799-13)**

BTEX 8021B	mg/kg		Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.400	0.400	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	2.84	0.400	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	2.89	0.400	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	41.7	1.20	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEX	47.4	2.40	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 149 % 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	1230	16.0	08/01/2013	ND	416	104	400	3.92	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	50.9	10.0	08/02/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	911	10.0	08/02/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 73.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.9 % 63.6-154

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Fax To: (575) 397-0397

Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/29/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 3' (H301799-14)**

BTEX 8021B		mg/kg	Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	0.905	0.050	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	2.16	0.050	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	9.46	0.150	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEX	12.5	0.300	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 212 % 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	2440	16.0	08/01/2013	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	16.4	10.0	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	222	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 90.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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 Fax To: (575) 397-0397

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 5' (H301799-15)**

BTEX 8021B		mg/kg	Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	0.848	0.050	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	2.37	0.050	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	9.61	0.150	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEX	12.8	0.300	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 216 % 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	2480	16.0	08/01/2013	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10.9	10.0	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	122	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 87.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Fax To: (575) 397-0397

Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/29/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 1' (H301799-16)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.802	0.200	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	3.09	0.200	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	22.9	0.200	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	62.9	0.600	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEX	89.8	1.20	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 200 % 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	1250	16.0	08/01/2013	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	305	100	08/02/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	3290	100	08/02/2013	ND	191	95.6	200	3.53	


Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 125 % 63.6-154

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Fax To: (575) 397-0397

Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/29/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 3' (H301799-17)**

BTEX 8021B		mg/kg	Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.212	0.050	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	2.17	0.050	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	4.67	0.050	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	16.2	0.150	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEX	23.2	0.300	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 240 % 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	2280	16.0	08/01/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	27.3	10.0	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	354	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 92.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Fax To: (575) 397-0397

Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/29/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 5' (H301799-18)**

BTEx 8021B		mg/kg	Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	0.350	0.050	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	0.765	0.050	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	3.24	0.150	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEx	4.35	0.300	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 154 % 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	2320	16.0	08/01/2013	ND	416	104	400	0.00	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	128	10.0	08/01/2013	ND	191	95.6	200	3.53	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	128	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 84.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/29/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 1' (H301799-19)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.636	0.200	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	3.07	0.200	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	24.3	0.200	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	67.3	0.600	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEX	95.3	1.20	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 214 % 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	1140	16.0	08/01/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	261	100	08/02/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	3040	100	08/02/2013	ND	191	95.6	200	3.53	


Surrogate: 1-Chlorooctane 96.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/29/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 3' (H301799-20)**

BTEX 8021B		mg/kg	Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.243	0.050	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	2.02	0.050	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	7.80	0.050	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	27.7	0.150	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEX	37.8	0.300	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 306 % 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	2440	16.0	08/01/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	38.2	10.0	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	374	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 89.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 5' (H301799-21)**

BTEX 8021B		mg/kg	Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.124	0.050	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	1.70	0.050	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	6.94	0.050	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	24.9	0.150	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEX	33.7	0.300	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 316 % 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	1920	16.0	08/01/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	34.8	10.0	08/02/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	369	10.0	08/02/2013	ND	191	95.6	200	3.53	


Surrogate: 1-Chlorooctane 92.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
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





**ARDINAL LABORATORIES**

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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

1 of 3

Company Name: BBC International, Inc.		P.O. #:		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		Company:			
Address: P.O. Box 805		Attn:			
City: Hobbs		Address:		SAME	
Phone #: 575-397-6388		Fax #:			
State: NM Zip: 88241		City:			
Project #:		State:		Zip:	
Project Name: MCMU # 247		Phone #:			
Project Location:		Fax #:			
Sampler Name: Raula Hernandez					
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS		
H301799		GROUNDWATER	WASTEWATER		
		SOIL	OIL		
		SLUDGE	OTHER:		
		ACID/BASE:	ICE / COOL		
		OTHER:			
		DATE	TIME		
1	SP101'	✓	7-16-13 915	✓	CHLORIDE
2	SP103'	✓	7-16-13 948	✓	TPH
3	SP205'	✓	7-16-13 1040	✓	BTEX
4	SP203'	✓	7-16-13 1110	✓	
5	SP203'	✓	7-16-13 1146	✓	
6	SP301'	✓	7-16-13 1210	✓	
7	SP301'	✓	7-16-13 1242	✓	
8	SP303'	✓	7-16-13 1309	✓	
9	SP305'	✓	7-16-13 1359	✓	
10	SP401'	✓	7-16-13 1430	✓	
Relinquished By: R. Hernandez		Date: 7-16-13		Time: 455	
Relinquished By: R. Hernandez		Received By: Raula Hernandez			
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (initials)	
Sampler: UPS - Bus - Other: -49C		Cool: <input checked="" type="checkbox"/> Intact: <input checked="" type="checkbox"/>		Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>	
1. Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476					





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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

[illegible]



# ORDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

HOBBS OCD

FEB 07 2014

RECEIVED

September 20, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #247

Enclosed are the results of analyses for samples received by the laboratory on 09/16/13 16:20.

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](http://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: 09/16/2013  
Reported: 09/20/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 09/11/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 8' (H302231-01)**

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	09/19/2013	ND	1.85	92.3	2.00	11.7	
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4	
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8	
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2	
Total BTEX	<0.300	0.300	09/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 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	1710	16.0	09/18/2013	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103	
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84	

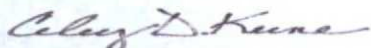
Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 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: 09/16/2013  
Reported: 09/20/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 09/11/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 11' (H302231-02)**

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	09/19/2013	ND	1.85	92.3	2.00	11.7	
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4	
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8	
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2	
Total BTEX	<0.300	0.300	09/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 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	608	16.0	09/18/2013	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103	
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84	

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

**Sample ID: SP 1 @ 12' (H302231-03)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/18/2013	ND	416	104	400	3.77	

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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: 09/16/2013  
Reported: 09/20/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 09/11/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 13' (H302231-04)**

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	09/19/2013	ND	1.85	92.3	2.00	11.7	
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4	
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8	
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2	
Total BTEX	<0.300	0.300	09/19/2013	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	64.0	16.0	09/18/2013	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103	
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84	

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154


**Sample ID: SP 2 @ 8' (H302231-05)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	09/18/2013	ND	416	104	400	3.77	

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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: 09/16/2013  
Reported: 09/20/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 09/11/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 11' (H302231-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	09/18/2013	ND	416	104	400	3.77	

**Sample ID: SP 2 @ 12' (H302231-07)**

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	09/18/2013	ND	416	104	400	3.77		

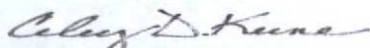
**Sample ID: SP 2 @ 13' (H302231-08)**

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	09/18/2013	ND	416	104	400	3.77	

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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: 09/16/2013  
Reported: 09/20/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 09/11/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 8' (H302231-09)**

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	09/19/2013	ND	1.85	92.3	2.00	11.7	
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4	
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8	
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2	
Total BTEX	<0.300	0.300	09/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 89.4-126

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	09/18/2013	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103	
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84	

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 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: 09/16/2013  
Reported: 09/20/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 09/11/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 11' (H302231-10)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2013	ND	1.85	92.3	2.00	11.7		
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4		
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8		
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/19/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 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	592	16.0	09/18/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103	
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 128 % 63.6-154

**Sample ID: SP 3 @ 12' (H302231-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/18/2013	ND	416	104	400	3.77	

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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: 09/16/2013  
Reported: 09/20/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 09/11/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 13' (H302231-12)**

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	09/19/2013	ND	1.85	92.3	2.00	11.7		
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4		
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8		
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/19/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 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	09/18/2013	ND	416	104	400	3.77	
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	09/18/2013	ND	198	99.1	200	0.103	
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84	

Surrogate: 1-Chlorooctane 122 % 65.2-140

Surrogate: 1-Chlorooctadecane 131 % 63.6-154

**Sample ID: SP 4 @ 8' (H302231-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	09/18/2013	ND	416	104	400	3.77		

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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 11' (H302231-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	09/18/2013	ND	416	104	400	3.77		

**Sample ID: SP 4 @ 12' (H302231-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/18/2013	ND	416	104	400	3.77		

**Sample ID: SP 4 @ 13' (H302231-16)**

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	09/17/2013	ND	416	104	400	3.77		

**Sample ID: SP 5 @ 7' (H302231-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	09/17/2013	ND	416	104	400	3.77		

**Sample ID: SP 6 @ 7' (H302231-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	09/17/2013	ND	416	104	400	3.77	

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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: 09/16/2013  
Reported: 09/20/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 09/13/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson


**Sample ID: SP 7 @ 7' (H302231-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	09/17/2013	ND	416	104	400	3.77	

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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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\*=Accredited Analyte

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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

Page 12 of 13

Company Name: BBC International, Inc.		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		Company:					
Address: P.O. Box 805		State: NM		Zip: 88241			
City: Hobbs		Attn:					
Phone #: 575-397-6388		Address: SAME					
Fax #: 575-397-0397		City:					
Project #:		State:		Zip:			
Project Name: ALMID #1417		Phone #:					
Project Location:		Fax #:					
Sampler Name: KAPR HERNANDEZ		DATE		TIME		CHLORIDE	
FOR LAB USE ONLY		PRESERV		SAMPLING		TPH	
Lab I.D.		OTHER:				BTX	
Sample I.D.		DATE		TIME			
H301231		9-11-13		940			
1 SP1 @ 8'		✓		✓		✓	
2 SP1 @ 11'		✓		9-11-13 1030		✓	
3 SP1 @ 13'		✓		9-11-13 1050		✓	
4 SP2 @ 8'		✓		9-11-13 1100		✓	
5 SP2 @ 11'		✓		9-11-13 1134		✓	
6 SP2 @ 13'		✓		9-11-13 1208		✓	
7 SP2 @ 11'		✓		9-11-13 1218		✓	
8 SP2 @ 13'		✓		9-11-13 1231		✓	
9 SP2 @ 11'		✓		9-11-13 109		✓	
10 SP2 @ 13'		✓		9-11-13 148		✓	
11 SP2 @ 11'		✓				✓	
12 SP2 @ 13'		✓				✓	
13 SP2 @ 11'		✓				✓	
14 SP2 @ 13'		✓				✓	
15 SP2 @ 11'		✓				✓	
16 SP2 @ 13'		✓				✓	
17 SP2 @ 11'		✓				✓	
18 SP2 @ 13'		✓				✓	
19 SP2 @ 11'		✓				✓	
20 SP2 @ 13'		✓				✓	
21 SP2 @ 11'		✓				✓	
22 SP2 @ 13'		✓				✓	
23 SP2 @ 11'		✓				✓	
24 SP2 @ 13'		✓				✓	
25 SP2 @ 11'		✓				✓	
26 SP2 @ 13'		✓				✓	
27 SP2 @ 11'		✓				✓	
28 SP2 @ 13'		✓				✓	
29 SP2 @ 11'		✓				✓	
30 SP2 @ 13'		✓				✓	
31 SP2 @ 11'		✓				✓	
32 SP2 @ 13'		✓				✓	
33 SP2 @ 11'		✓				✓	
34 SP2 @ 13'		✓				✓	
35 SP2 @ 11'		✓				✓	
36 SP2 @ 13'		✓				✓	
37 SP2 @ 11'		✓				✓	
38 SP2 @ 13'		✓				✓	
39 SP2 @ 11'		✓				✓	
40 SP2 @ 13'		✓				✓	
41 SP2 @ 11'		✓				✓	
42 SP2 @ 13'		✓				✓	
43 SP2 @ 11'		✓				✓	
44 SP2 @ 13'		✓				✓	
45 SP2 @ 11'		✓				✓	
46 SP2 @ 13'		✓				✓	
47 SP2 @ 11'		✓				✓	
48 SP2 @ 13'		✓				✓	
49 SP2 @ 11'		✓				✓	
50 SP2 @ 13'		✓				✓	
51 SP2 @ 11'		✓				✓	
52 SP2 @ 13'		✓				✓	
53 SP2 @ 11'		✓				✓	
54 SP2 @ 13'		✓				✓	
55 SP2 @ 11'		✓				✓	
56 SP2 @ 13'		✓				✓	
57 SP2 @ 11'		✓				✓	
58 SP2 @ 13'		✓				✓	
59 SP2 @ 11'		✓				✓	
60 SP2 @ 13'		✓				✓	
61 SP2 @ 11'		✓				✓	
62 SP2 @ 13'		✓				✓	
63 SP2 @							

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2446.

#54



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:		BILL TO		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		Address:			
Project #:		Project Owner:		City:			
Project Name:		State:		Zip:			
Project Location:		Phone #:					
Sample Name:		Fax #:					
For Lab Use Only		MATRIX		PRESERV		SAMPLING	
Lab I.D.		GROUNDWATER		DATE		TIME	
Sample I.D.		WASTEWATER					
		SOIL					
		OIL					
		SLUDGE					
		OTHER:					
		ACID/BASE:					
		ICE / COOL:					
		OTHER:					
H302231		CL- TPH BTEX					
11 SP 30 12		✓		9.11.13		159	
12 SP 13		✓		9.11.13		211	
13 SP 4 0 0		✓		9.11.13		248	
14 SP 14		✓		9.11.13		324	
15 SP 14		✓		9.11.13		338	
16 SP 13		✓		9.11.13		347	
17 SP 13		✓		9.11.13		1030	
18 SP 13		✓		9.11.13		1120	
19 SP 13		✓		9.11.13		1209	
20 SP 13		✓		9.11.13		1209	
21 SP 13		✓		9.11.13		1209	
22 SP 13		✓		9.11.13		1209	
23 SP 13		✓		9.11.13		1209	
24 SP 13		✓		9.11.13		1209	
25 SP 13		✓		9.11.13		1209	
26 SP 13		✓		9.11.13		1209	
27 SP 13		✓		9.11.13		1209	
28 SP 13		✓		9.11.13		1209	
29 SP 13		✓		9.11.13		1209	
30 SP 13		✓		9.11.13		1209	
31 SP 13		✓		9.11.13		1209	
32 SP 13		✓		9.11.13		1209	
33 SP 13		✓		9.11.13		1209	
34 SP 13		✓		9.11.13		1209	
35 SP 13		✓		9.11.13		1209	
36 SP 13		✓		9.11.13		1209	
37 SP 13		✓		9.11.13		1209	
38 SP 13		✓		9.11.13		1209	
39 SP 13		✓		9.11.13		1209	
40 SP 13		✓		9.11.13		1209	
41 SP 13		✓		9.11.13		1209	
42 SP 13		✓		9.11.13		1209	
43 SP 13		✓		9.11.13		1209	
44 SP 13		✓		9.11.13		1209	
45 SP 13		✓		9.11.13		1209	
46 SP 13		✓		9.11.13		1209	
47 SP 13		✓		9.11.13		1209	
48 SP 13		✓		9.11.13		1209	
49 SP 13		✓		9.11.13		1209	
50 SP 13		✓		9.11.13		1209	
51 SP 13		✓		9.11.13		1209	
52 SP 13		✓		9.11.13		1209	
53 SP 13		✓		9.11.13		1209	
54 SP 13		✓		9.11.13		1209	
55 SP 13		✓		9.11.13		1209	
56 SP 13		✓		9.11.13		1209	
57 SP 13		✓		9.11.13		1209	
58 SP 13		✓		9.11.13		1209	
59 SP 13		✓		9.11.13		1209	
60 SP 13		✓		9.11.13		1209	
61 SP 13		✓		9.11.13		1209	



FEB 07 2014

**Kathy Purvis**

**From:** Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>  
**Sent:** Thursday, October 03, 2013 9:21 AM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** RE: OXY-MLMU #247-Remediation Plan

**RECEIVED**

Cliff

RE: OXY-MLMU #247-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.leking@state.nm.us](mailto:geoffreyr.leking@state.nm.us)

---

**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Wednesday, October 02, 2013 11:08 AM  
**To:** Leking, Geoffrey R, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-MLMU #247-Remediation Plan

Geoff,

This message is to confirm our discussion on September 25, 2013 concerning the remediation plan for the Oxy MLMU #247 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 5 feet across the entire leak area and then place an impermeable liner in the around around SP1. 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](mailto:cbrunson@bbcinternational.com)

\*\*\*\*\*

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\*\*\*\*\*



Kathy Purvis

FEB 07 2014

**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-MLMU #247-Remediation Plan

RECEIVED

Cliff,

You are good to go on this one also.

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 10:43 AM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto: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 5 feet across the entire leak area and then place an impermeable liner in the around around SP1. 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:  
 1324 W. Marland St.  
 Hobbs, NM 88240 USA  
 Phone: (575) 397-6388  
 Fax: (575) 397-0397  
 E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

\*\*\*\*\*  
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 \*\*\*\*\*



Oxy  
MLMU #247

MLMU Satellite #4  
Location

Leak Point



SP1

SP2

SP3  
Stake



SP4

*Remediation  
Packet*

SP6

SP7

Two-track road

U/L P, Section 7, T24S, R37E  
550' FSL and 660' FEL  
Lea County, NM  
N 32.23288° W 103.20615°  
API# 30-025-11044

BBC International, Inc.

Oxy  
MLMU #247

Date: 07/18/2013

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2013





# Groundwater Plot

## Oxy MLMU #247

County  
Lea County

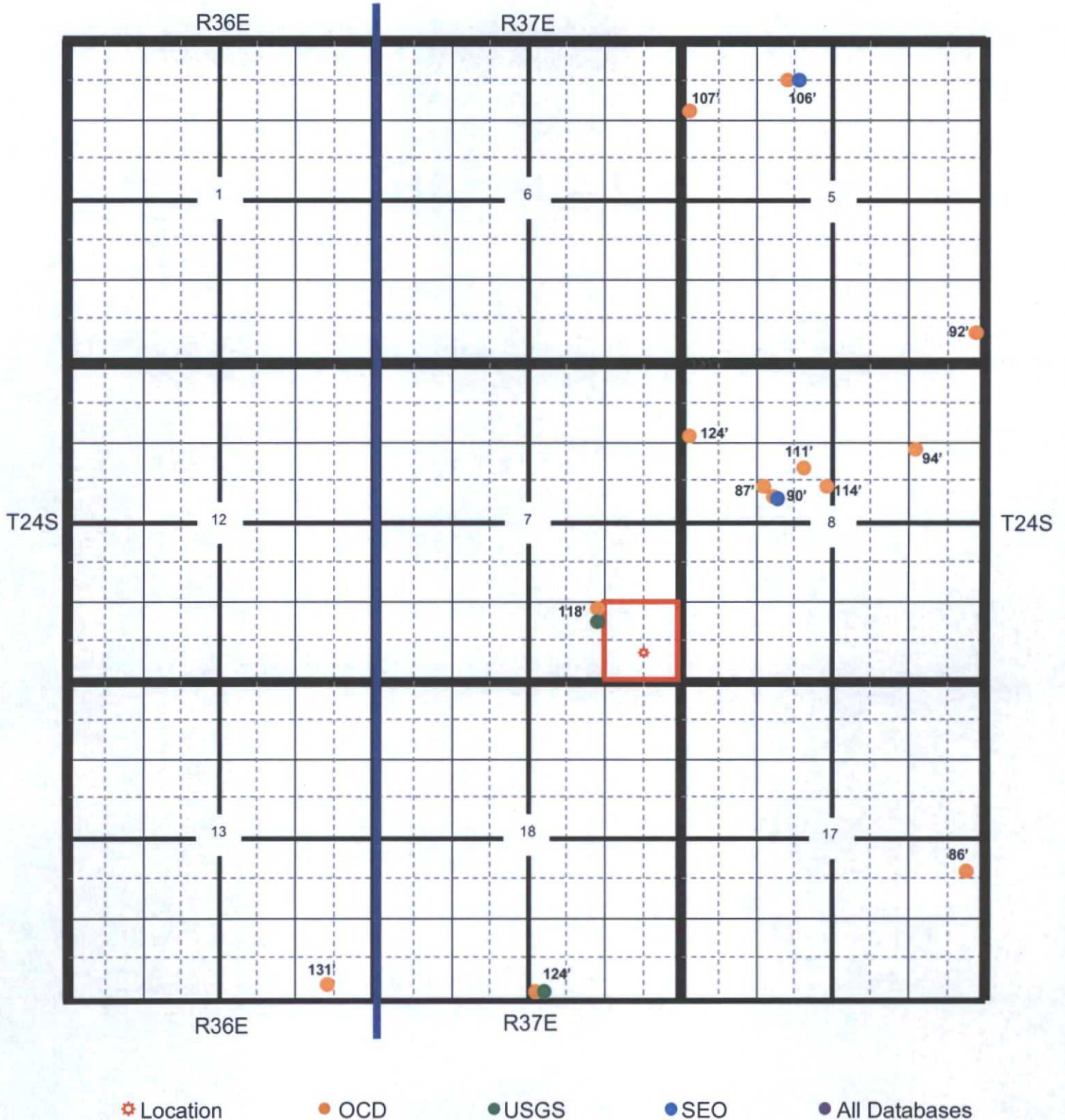
Unit Letter  
P

Section  
7

Township  
24S

Range  
37E

Trend Map 100'



# Section Quarters

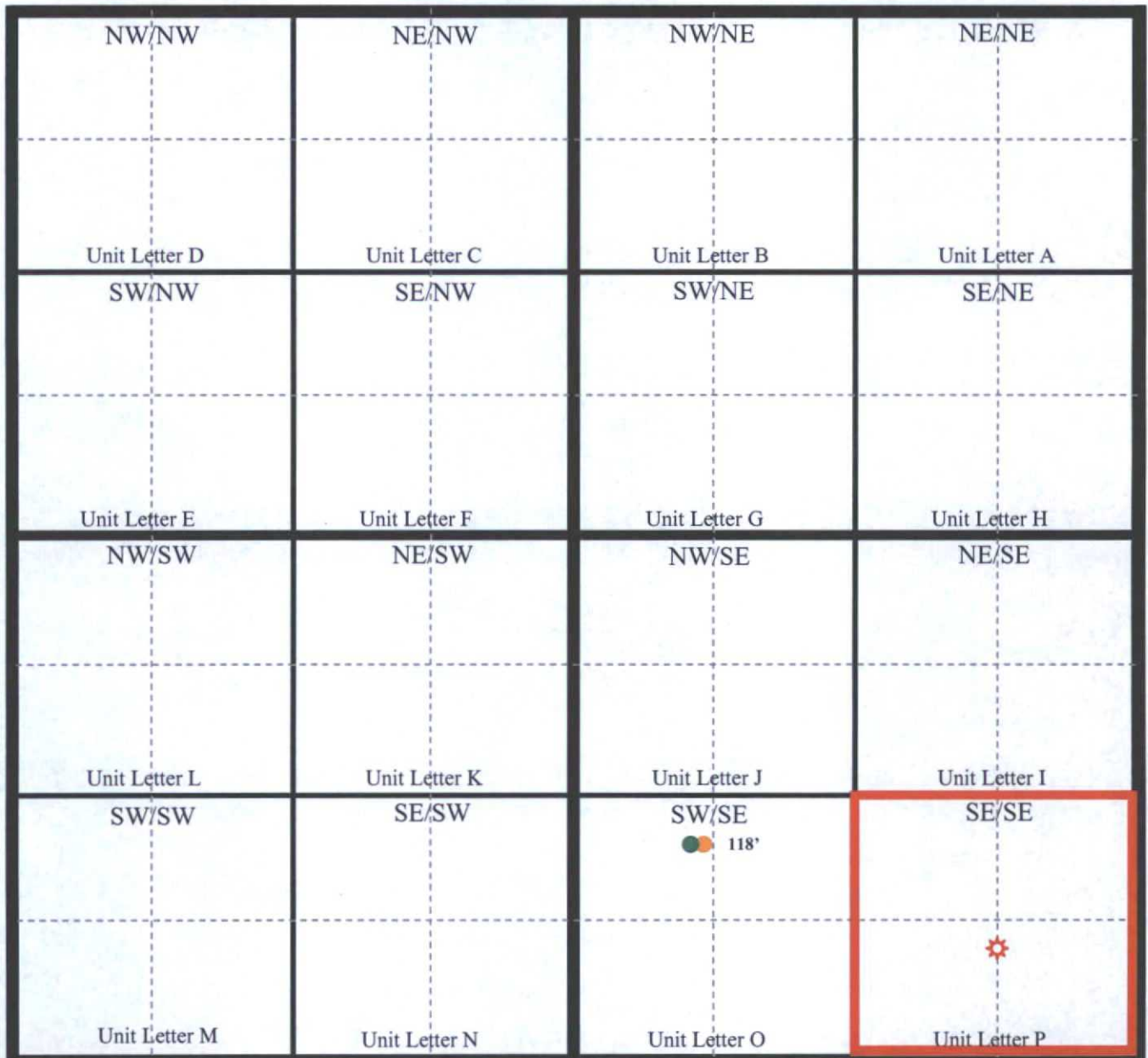
## Oxy MLMU #247

County Lea County      Unit Letter P      Section 7      Township 24S      Range 37E

Trend Map 100'

1

2



3

4



Laboratory Analytical Results Summary  
MLMU #247

Analyte	Method	Sample Date	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 8'	SP1 @ 11'	SP1 @ 12'	SP1 @ 13'
			7/26/13	7/26/13	7/26/13	9/11/13	9/11/13	9/11/13	9/11/13
Benzene	BTEX 8021B		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
			<2.00	8.8	0.482	<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		18.1	30.5	3	<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		21.8	73.4	8.46	<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		86.6	186	24.5	<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		127	298	36.4	<0.300	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		1230	2320	2000	1710	608	288	64
GRO	TPH 8015M		1860	3150	317	<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		9300	9910	2960	<10.0	<10.0	n/a	<10.0

Analyte	Method	Sample Date	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 8'	SP2 @ 11'	SP2 @ 12'	SP2 @ 13'
			7/26/13	7/26/13	7/26/13	9/11/13	9/11/13	9/11/13	9/11/13
Benzene	BTEX 8021B		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
			<2.00	3.38	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		18	20	0.124	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		21.4	15.8	0.062	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		79.3	96.2	0.161	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		119	135	0.347	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		992	2280	336	656	592	272	64
GRO	TPH 8015M		1710	2070	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		8730	10400	<10.0	n/a	n/a	n/a	n/a

Analyte	Method	Sample Date	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 8'	SP3 @ 11'	SP3 @ 12'	SP3 @ 13'
			7/26/13	7/26/13	7/26/13	9/11/13	9/11/13	9/11/13	9/11/13
Benzene	BTEX 8021B		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
			2.72	6.81	2.14	<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		23	44.9	17.4	<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		27.7	67.8	21.1	<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		106	178	78.1	<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		159	297	119	<0.300	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		928	2160	976	768	592	288	80
GRO	TPH 8015M		1860	3530	1640	<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		8420	12000	7860	<10.0	<10.0	n/a	<10.0

Analyte	Method	Sample Date	SP4 @ 1'	SP4 @ 3'	SP4 @ 5'	SP4 @ 8'	SP4 @ 11'	SP4 @ 12'	SP4 @ 13'
			7/26/13	7/26/13	7/26/13	9/11/13	9/11/13	9/11/13	9/11/13
Benzene	BTEX 8021B		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
			<0.200	<1.00	<1.00	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		0.612	5.27	5.02	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		1.12	17.4	15.4	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		6.91	66.8	61.8	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		8.64	89.5	82.2	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		608	1940	1960	800	528	288	64
GRO	TPH 8015M		194	971	51.1	n/a	n/a	n/a	n/a
DRO	TPH 8015M		21900	8900	540	n/a	n/a	n/a	n/a

Laboratory Analytical Results Summary  
MLMU #247

Analyte	Method	Sample	SP5 @ 1'	SP5 @ 3'	SP5 @ 5'	SP5 @ 7'
		Date	7/29/13	7/29/13	7/29/13	9/13/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<400	<0.050	<0.050	n/a
Toluene	BTEX 8021B		2.84	0.905	0.848	n/a
Ethylbenzene	BTEX 8021B		2.89	2.16	2.37	n/a
Total Xylenes	BTEX 8021B		41.7	9.46	9.61	n/a
Total BTEX	BTEX 8021B		47.4	12.5	12.8	n/a
Chloride	SM4500Cl-B		1230	2440	2480	704
GRO	TPH 8015M		50.9	16.4	10.9	n/a
DRO	TPH 8015M		911	222	122	n/a

Analyte	Method	Sample	SP6 @ 1'	SP6 @ 3'	SP6 @ 5'	SP6 @ 7'
		Date	7/29/13	7/29/13	7/29/13	9/13/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.802	0.212	<0.050	n/a
Toluene	BTEX 8021B		3.09	2.17	0.35	n/a
Ethylbenzene	BTEX 8021B		22.9	4.67	0.765	n/a
Total Xylenes	BTEX 8021B		62.9	16.2	3.24	n/a
Total BTEX	BTEX 8021B		89.8	23.2	4.35	n/a
Chloride	SM4500Cl-B		1250	2280	2320	432
GRO	TPH 8015M		305	27.3	<10.0	n/a
DRO	TPH 8015M		3290	354	128	n/a

Analyte	Method	Sample	SP7 @ 1'	SP7 @ 3'	SP7 @ 5'	SP7 @ 7'
		Date	7/29/13	7/29/13	7/29/13	9/13/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.636	0.243	0.124	n/a
Toluene	BTEX 8021B		3.07	2.02	1.7	n/a
Ethylbenzene	BTEX 8021B		24.3	7.8	6.94	n/a
Total Xylenes	BTEX 8021B		67.3	27.7	24.9	n/a
Total BTEX	BTEX 8021B		95.3	37.8	33.7	n/a
Chloride	SM4500Cl-B		1140	2440	1920	720
GRO	TPH 8015M		261	38.2	34.8	n/a
DRO	TPH 8015M		3040	374	369	n/a





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FEB 07 2014

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August 05, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #247

Enclosed are the results of analyses for samples received by the laboratory on 07/30/13 16:55.

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](http://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: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H301799-01)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.00	2.00	08/01/2013	ND	1.99	99.6	2.00	0.870		
Toluene*	18.1	2.00	08/01/2013	ND	1.94	97.1	2.00	0.758		
Ethylbenzene*	21.8	2.00	08/01/2013	ND	2.02	101	2.00	1.31		
Total Xylenes*	86.6	6.00	08/01/2013	ND	6.10	102	6.00	1.72		
Total BTEX	127	12.0	08/01/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 121 % 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	1230	16.0	08/01/2013	ND	416	104	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	1860	50.0	08/01/2013	ND	183	91.5	200	10.9	
DRO >C10-C28	9300	50.0	08/01/2013	ND	190	95.0	200	10.7	

Surrogate: 1-Chlorooctane 171 % 65.2-140

Surrogate: 1-Chlorooctadecane 270 % 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: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 3' (H301799-02)**

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.80	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06	
Toluene*	30.5	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74	
Ethylbenzene*	73.4	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72	
Total Xylenes*	186	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06	
Total BTEX	298	12.0	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 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	2320	16.0	08/01/2013	ND	416	104	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	3150	50.0	08/01/2013	ND	183	91.5	200	10.9	
DRO >C10-C28	9910	50.0	08/01/2013	ND	190	95.0	200	10.7	

Surrogate: 1-Chlorooctane 176 % 65.2-140

Surrogate: 1-Chlorooctadecane 284 % 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: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 5' (H301799-03)**

BTEX 8021B		mg/kg	Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.482	0.200	08/02/2013	ND	1.93	96.5	2.00	8.06	
Toluene*	3.00	0.200	08/02/2013	ND	1.86	92.9	2.00	8.74	
Ethylbenzene*	8.46	0.200	08/02/2013	ND	1.98	99.0	2.00	8.72	
Total Xylenes*	24.5	0.600	08/02/2013	ND	5.80	96.7	6.00	9.06	
Total BTEX	36.4	1.20	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 146 % 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	2000	16.0	08/01/2013	ND	416	104	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	317	50.0	08/01/2013	ND	183	91.5	200	10.9	
DRO >C10-C28	2960	50.0	08/01/2013	ND	190	95.0	200	10.7	

Surrogate: 1-Chlorooctane 128 % 65.2-140

Surrogate: 1-Chlorooctadecane 167 % 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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H301799-04)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.00	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
Toluene*	18.0	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
Ethylbenzene*	21.4	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
Total Xylenes*	79.3	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06		
Total BTEX	119	12.0	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 118 % 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	992	16.0	08/01/2013	ND	416	104	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	1710	50.0	08/01/2013	ND	183	91.5	200	10.9	
DRO >C10-C28	8730	50.0	08/01/2013	ND	190	95.0	200	10.7	

Surrogate: 1-Chlorooctane 161 % 65.2-140

Surrogate: 1-Chlorooctadecane 284 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 3' (H301799-05)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	3.38	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
Toluene*	20.0	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
Ethylbenzene*	15.8	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
Total Xylenes*	96.2	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06		
Total BTEX	135	12.0	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 118 % 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	2280	16.0	08/01/2013	ND	416	104	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	2070	50.0	08/01/2013	ND	183	91.5	200	10.9	
DRO >C10-C28	10400	50.0	08/01/2013	ND	190	95.0	200	10.7	

Surrogate: 1-Chlorooctane 163 % 65.2-140

Surrogate: 1-Chlorooctadecane 308 % 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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 5' (H301799-06)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/02/2013	ND	1.93	96.5	2.00	8.06		
Toluene*	0.124	0.050	08/02/2013	ND	1.86	92.9	2.00	8.74		
Ethylbenzene*	0.062	0.050	08/02/2013	ND	1.98	99.0	2.00	8.72		
Total Xylenes*	0.161	0.150	08/02/2013	ND	5.80	96.7	6.00	9.06		
Total BTEX	0.347	0.300	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 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	336	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/01/2013	ND	183	91.5	200	10.9		
DRO >C10-C28	<10.0	10.0	08/01/2013	ND	190	95.0	200	10.7		

Surrogate: 1-Chlorooctane 87.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 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: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H301799-07)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	2.72	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
Toluene*	23.0	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
Ethylbenzene*	27.7	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
Total Xylenes*	106	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06		
Total BTEX	159	12.0	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 121 % 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	928	16.0	08/01/2013	ND	416	104	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	1860	50.0	08/01/2013	ND	183	91.5	200	10.9	
DRO >C10-C28	8420	50.0	08/01/2013	ND	190	95.0	200	10.7	


Surrogate: 1-Chlorooctane 154 % 65.2-140

Surrogate: 1-Chlorooctadecane 242 % 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: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 3' (H301799-08)**

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.81	4.00	08/02/2013	ND	1.93	96.5	2.00	8.06	
Toluene*	44.9	4.00	08/02/2013	ND	1.86	92.9	2.00	8.74	
Ethylbenzene*	67.8	4.00	08/02/2013	ND	1.98	99.0	2.00	8.72	
Total Xylenes*	178	12.0	08/02/2013	ND	5.80	96.7	6.00	9.06	
Total BTEX	297	24.0	08/02/2013	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	2160	16.0	08/01/2013	ND	416	104	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	3530	50.0	08/01/2013	ND	183	91.5	200	10.9		
DRO >C10-C28	12000	50.0	08/01/2013	ND	190	95.0	200	10.7		

Surrogate: 1-Chlorooctane 180 % 65.2-140

Surrogate: 1-Chlorooctadecane 346 % 63.6-154

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 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 5' (H301799-09)**

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.14	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06	
Toluene*	17.4	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74	
Ethylbenzene*	21.1	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72	
Total Xylenes*	78.1	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06	
Total BTEX	119	12.0	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 118 % 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	976	16.0	08/01/2013	ND	416	104	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	1640	50.0	08/01/2013	ND	183	91.5	200	10.9	
DRO >C10-C28	7860	50.0	08/01/2013	ND	190	95.0	200	10.7	

Surrogate: 1-Chlorooctane 158 % 65.2-140

Surrogate: 1-Chlorooctadecane 228 % 63.6-154

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Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 1' (H301799-10)**

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	08/02/2013	ND	1.93	96.5	2.00	8.06	
Toluene*	0.612	0.200	08/02/2013	ND	1.86	92.9	2.00	8.74	
Ethylbenzene*	1.12	0.200	08/02/2013	ND	1.98	99.0	2.00	8.72	
Total Xylenes*	6.91	0.600	08/02/2013	ND	5.80	96.7	6.00	9.06	
Total BTEX	8.64	1.20	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 125 % 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	608	16.0	08/01/2013	ND	416	104	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	194	100	08/01/2013	ND	183	91.5	200	10.9	
DRO >C10-C28	21900	100	08/01/2013	ND	190	95.0	200	10.7	

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 953 % 63.6-154

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Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 3' (H301799-11)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	08/02/2013	ND	2.21	110	2.00	4.37		
Toluene*	5.27	1.00	08/02/2013	ND	2.16	108	2.00	4.56		
Ethylbenzene*	17.4	1.00	08/02/2013	ND	2.29	114	2.00	4.01		
Total Xylenes*	66.8	3.00	08/02/2013	ND	6.88	115	6.00	3.56		
Total BTEX	89.5	6.00	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 126 % 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	1940	16.0	08/01/2013	ND	416	104	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	971	50.0	08/02/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	8900	50.0	08/02/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 141 % 65.2-140

Surrogate: 1-Chlorooctadecane 279 % 63.6-154

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Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 5' (H301799-12)**

BTEx 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	5.02	1.00	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	15.4	1.00	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	61.8	3.00	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEX	82.2	6.00	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 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	1960	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	51.1	10.0	08/02/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	540	10.0	08/02/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 86.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Fax To: (575) 397-0397

Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/29/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 1' (H301799-13)**

BTEX 8021B		mg/kg	Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.400	0.400	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	2.84	0.400	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	2.89	0.400	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	41.7	1.20	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEX	47.4	2.40	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 149 % 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	1230	16.0	08/01/2013	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	50.9	10.0	08/02/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	911	10.0	08/02/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 73.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.9 % 63.6-154

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Fax To: (575) 397-0397

Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/29/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 3' (H301799-14)**

BTEX 8021B		mg/kg	Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	<b>0.905</b>	0.050	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	<b>2.16</b>	0.050	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	<b>9.46</b>	0.150	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEX	<b>12.5</b>	0.300	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 212 % 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	<b>2440</b>	16.0	08/01/2013	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>16.4</b>	10.0	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	<b>222</b>	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 90.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Fax To: (575) 397-0397

Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/29/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 5' (H301799-15)**

BTEX 8021B		mg/kg	Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	<b>0.848</b>	0.050	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	<b>2.37</b>	0.050	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	<b>9.61</b>	0.150	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEX	<b>12.8</b>	0.300	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 216 % 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	<b>2480</b>	16.0	08/01/2013	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>10.9</b>	10.0	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	<b>122</b>	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 87.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Fax To: (575) 397-0397

Received: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/29/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 1' (H301799-16)**

BTEX 8021B		mg/kg	Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.802	0.200	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	3.09	0.200	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	22.9	0.200	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	62.9	0.600	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEX	89.8	1.20	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 200 % 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	1250	16.0	08/01/2013	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	305	100	08/02/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	3290	100	08/02/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 125 % 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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 3' (H301799-17)**

BTEX 8021B		mg/kg	Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.212	0.050	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	2.17	0.050	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	4.67	0.050	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	16.2	0.150	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEX	23.2	0.300	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 240 % 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	2280	16.0	08/01/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	27.3	10.0	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	354	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 92.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 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: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/29/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 5' (H301799-18)**

BTEX 8021B		mg/kg	Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	0.350	0.050	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	0.765	0.050	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	3.24	0.150	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEX	4.35	0.300	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 154 % 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	2320	16.0	08/01/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	128	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 84.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 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: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/29/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 1' (H301799-19)**

BTX 8021B		mg/kg		Analyzed By: DW				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.636	0.200	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	3.07	0.200	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	24.3	0.200	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	67.3	0.600	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTX	95.3	1.20	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 214 % 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	1140	16.0	08/01/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	261	100	08/02/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	3040	100	08/02/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 96.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 3' (H301799-20)**

BTEX 8021B		mg/kg	Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.243	0.050	08/02/2013	ND	2.21	110	2.00	4.37	
Toluene*	2.02	0.050	08/02/2013	ND	2.16	108	2.00	4.56	
Ethylbenzene*	7.80	0.050	08/02/2013	ND	2.29	114	2.00	4.01	
Total Xylenes*	27.7	0.150	08/02/2013	ND	6.88	115	6.00	3.56	
Total BTEX	37.8	0.300	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 306 % 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	2440	16.0	08/01/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	38.2	10.0	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	374	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 89.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 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: 07/30/2013  
Reported: 08/05/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 07/29/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 5' (H301799-21)**

BTEX 8021B		mg/kg	Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.124</b>	0.050	08/02/2013	ND	2.21	110	2.00	4.37	
<b>Toluene*</b>	<b>1.70</b>	0.050	08/02/2013	ND	2.16	108	2.00	4.56	
<b>Ethylbenzene*</b>	<b>6.94</b>	0.050	08/02/2013	ND	2.29	114	2.00	4.01	
<b>Total Xylenes*</b>	<b>24.9</b>	0.150	08/02/2013	ND	6.88	115	6.00	3.56	
<b>Total BTEX</b>	<b>33.7</b>	0.300	08/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 316 % 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
<b>Chloride</b>	<b>1920</b>	16.0	08/01/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>34.8</b>	10.0	08/02/2013	ND	181	90.5	200	4.59	
<b>DRO &gt;C10-C28</b>	<b>369</b>	10.0	08/02/2013	ND	191	95.6	200	3.53	


Surrogate: 1-Chlorooctane 92.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
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**

1 of 3

Company Name: BBC International, Inc.		P.O. #:		BILL TO		ANALYSIS REQUEST													
Project Manager: Cliff Brunson		Company:																	
Address: P.O. Box 805		Attn:																	
City: Hobbs		Address:		SAME															
Phone #: 575-397-6388		City:																	
Fax #: 575-397-0397		State:																	
Project #:		Zip:																	
Project Name: MLMA # 247		Phone #:																	
Project Location:		Fax #:																	
Sampler Name: Royce Hernandez																			
FOR LAB USE ONLY																			
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	CHLORIDE	TPH	BTEX		
H307199	SP101'	G	1										7-10-13	915					
1	SP103'	G	1										7-10-13	948					
2	SP105'	G	1										7-10-13	948					
3	SP205'	G	1										7-10-13	1040					
4	SP207'	G	1										7-10-13	1110					
5	SP203'	G	1										7-10-13	1140					
6	SP301'	G	1										7-10-13	1210					
7	SP301'	G	1										7-10-13	1242					
8	SP301'	G	1										7-10-13	1740					
9	SP301'	G	1										7-10-13	1559					
10	SP401'	G	1										7-10-13	2350					
<small>PLEASE NOTE: Liability and Damages: Cardinal's liability and damage is limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated theories or otherwise.</small>																			
Relinquished By: [Signature]		Date: 7-10-13		Time: 4:55		Received By: [Signature]		Date: 7-10-13		Time: 4:55		Phone Result: [ ] Yes [ ] No		Fax Result: [ ] Yes [ ] No		Add'l Phone #: [ ]		Add'l Fax #: [ ]	
Delivered By: (Circle One)		Sample Condition		CHECKED BY: [Signature]															
Sampler - UPS - Bus - Other: -49C		Cool / Intact / Sealed / Yes / No		[ ] Yes [ ] No															

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

#54





# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

<b>Company Name:</b> BBC International, Inc.		<b>P.O. #:</b>		<b>ANALYSIS REQUEST</b>	
<b>Project Manager:</b> Cliff Brunson		<b>Company:</b>			
<b>Address:</b> P.O. Box 805		<b>Attn:</b>			
<b>City:</b> Hobbs		<b>State:</b> NM <b>Zip:</b> 88241			
<b>Phone #:</b> 575-397-6388		<b>Fax #:</b> 575-397-0397			
<b>Project #:</b>		<b>Project Owner:</b> ORY			
<b>Project Name:</b> MUMU # 247		<b>City:</b>			
<b>Project Location:</b>		<b>State:</b>			
<b>Sample Name:</b> Roger Hernandez		<b>Phone #:</b>			
<b>For Lab Use Only</b>		<b>Fax #:</b>			
<b>Lab I.D.</b>	<b>Sample I.D.</b>	<b>MATRIX</b>		<b>PRESERV</b>	
		<b>(G)RAB OR (C)OMP.</b>		<b>SAMPLING</b>	
		<b># CONTAINERS</b>			
		<b>GROUNDWATER</b>			
		<b>WASTEWATER</b>			
		<b>SOIL</b>			
		<b>OIL</b>			
		<b>SLUDGE</b>			
		<b>OTHER:</b>			
		<b>ACID/BASE:</b>			
		<b>ICE / COOL</b>			
		<b>OTHER:</b>			
		<b>DATE</b>		<b>TIME</b>	
H30799	SP4 @ 3'	✓		7-26-13 258	
11	SP4 @ 3'	✓		7-26-13 325	
12	SP5 @ 1'	✓		7-26-13 930	
13	SP5 @ 3'	✓		7-26-13 1008	
14	SP5 @ 3'	✓		7-26-13 1047	
15	SP6 @ 1'	✓		7-26-13 1137	
16	SP6 @ 1'	✓		7-26-13 1205	
17	SP6 @ 3'	✓		7-26-13 1228	
18	SP7 @ 1'	✓		7-26-13 1258	
19	SP7 @ 1'	✓		7-26-13 1337	
20	SP7 @ 1'	✓		7-26-13 1337	
<b>REMARKS:</b>					
<b>Relinquished By:</b> Roger Hernandez					
<b>Date:</b> 7-26-13					
<b>Time:</b> 455					
<b>Received By:</b> Heidi Henderson					
<b>Date:</b>					
<b>Time:</b>					
<b>Delivered By: (Circle One)</b>					
<b>Sample - UPS - Bus - Other:</b>					
<b>-40</b>					
<b>Sample Condition</b>					
<b>Cool / Intact</b>					
<b>Yes / No</b>					
<b>Checked By:</b>					
<b>(Initials)</b>					
<b>Phone Result:</b>					
<b>Fax Result:</b>					
<b>Yes / No</b>					
<b>Add Phone #:</b>					
<b>Add Fax #:</b>					

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-#54





# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 26 of 26

#54



**HOBBS OCD****FEB 07 2014****RECEIVED**

September 20, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #247

Enclosed are the results of analyses for samples received by the laboratory on 09/16/13 16:20.

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](http://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,



Caley 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: 09/16/2013  
Reported: 09/20/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 09/11/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 8' (H302231-01)**

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	09/19/2013	ND	1.85	92.3	2.00	11.7		
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4		
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8		
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/19/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 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	1710	16.0	09/18/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103	
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84	

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 11' (H302231-02)**

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	09/19/2013	ND	1.85	92.3	2.00	11.7	
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4	
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8	
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2	
Total BTEX	<0.300	0.300	09/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 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	608	16.0	09/18/2013	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103	
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84	

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

**Sample ID: SP 1 @ 12' (H302231-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/18/2013	ND	416	104	400	3.77	

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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: 09/16/2013  
Reported: 09/20/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 09/11/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 13' (H302231-04)**

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	09/19/2013	ND	1.85	92.3	2.00	11.7		
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4		
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8		
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/19/2013	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	64.0	16.0	09/18/2013	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103	
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84	

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

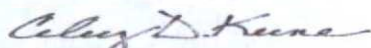
**Sample ID: SP 2 @ 8' (H302231-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	09/18/2013	ND	416	104	400	3.77	

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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: 09/16/2013  
Reported: 09/20/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 09/11/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 11' (H302231-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	09/18/2013	ND	416	104	400	3.77		

**Sample ID: SP 2 @ 12' (H302231-07)**

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	09/18/2013	ND	416	104	400	3.77		

**Sample ID: SP 2 @ 13' (H302231-08)**

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	09/18/2013	ND	416	104	400	3.77	

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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: 09/16/2013  
Reported: 09/20/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 09/11/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 8' (H302231-09)**

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	09/19/2013	ND	1.85	92.3	2.00	11.7		
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4		
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8		
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/19/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 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	768	16.0	09/18/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103	
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84	

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 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: 09/16/2013  
Reported: 09/20/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 09/11/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 11' (H302231-10)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2013	ND	1.85	92.3	2.00	11.7	
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4	
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8	
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2	
Total BTEX	<0.300	0.300	09/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 89.4-126

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	09/18/2013	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103	
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 128 % 63.6-154

**Sample ID: SP 3 @ 12' (H302231-11)**

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/18/2013	ND	416	104	400	3.77	

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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: 09/16/2013  
Reported: 09/20/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 09/11/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 13' (H302231-12)**

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	09/19/2013	ND	1.85	92.3	2.00	11.7	
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4	
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8	
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2	
Total BTEX	<0.300	0.300	09/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 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	09/18/2013	ND	416	104	400	3.77		
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	09/18/2013	ND	198	99.1	200	0.103	
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84	

Surrogate: 1-Chlorooctane 122 % 65.2-140

Surrogate: 1-Chlorooctadecane 131 % 63.6-154


**Sample ID: SP 4 @ 8' (H302231-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	09/18/2013	ND	416	104	400	3.77	

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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: 09/16/2013  
Reported: 09/20/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 09/11/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 11' (H302231-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	09/18/2013	ND	416	104	400	3.77	

**Sample ID: SP 4 @ 12' (H302231-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/18/2013	ND	416	104	400	3.77	

**Sample ID: SP 4 @ 13' (H302231-16)**

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	09/17/2013	ND	416	104	400	3.77	

**Sample ID: SP 5 @ 7' (H302231-17)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	09/17/2013	ND	416	104	400	3.77		

**Sample ID: SP 6 @ 7' (H302231-18)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	09/17/2013	ND	416	104	400	3.77		

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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: 09/16/2013  
Reported: 09/20/2013  
Project Name: MLMU #247  
Project Number: NONE GIVEN  
Project Location: JAL, NEW MEXICO

Sampling Date: 09/13/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 7' (H302231-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	09/17/2013	ND	416	104	400	3.77	

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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

12/2

Company Name: BBC International, Inc.		P.O. #:		BILL TO		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		Address: SAME			
Project #:		City:		State:		Zip:	
Project Name: ALAND 4247		State:		Zip:			
Project Location:		Phone #:					
Sampler Name: KAPR Hernandez		Fax #:					
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP		# CONTAINERS	
H301231		SP10 B		GROUNDWATER		WASTEWATER	
1		11'		✓		✓	
2		11'		✓		✓	
3		12'		✓		✓	
4		13'		✓		✓	
5		SP20 B		✓		✓	
6		11'		✓		✓	
7		12'		✓		✓	
8		13'		✓		✓	
9		SP30 B		✓		✓	
10		11'		✓		✓	
				DATE		TIME	
				0-11-13		940	
				9-11-13		1030	
				9-11-13		1050	
				9-11-13		1100	
				9-11-13		1134	
				9-11-13		1208	
				9-11-12		1218	
				9-11-13		1731	
				9-11-13		148	
						CHLORIDE	
						TPH	
						BTX	
Relinquished By: [Signature]		Date: 9-16-13		Received By: [Signature]		Date: 9-16-13	
Time:				Time:			
Delivered By: (Circle One)		Sample Condition		CHECKER BY: [Signature]			
Sampler - UPS - Bus - Other:		Cool Yes No		Intact Yes No			
5.00		No		No			
1		Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476		#54			



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> BBC International, Inc. <b>Project Manager:</b> Cliff Brunson <b>Address:</b> P.O. Box 805 <b>City:</b> Hobbs <b>Phone #:</b> 575-397-6388 <b>Fax #:</b> 575-397-0397 <b>Project #:</b>				<b>P.O. #:</b> <b>Company:</b> <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b>			
<b>Project Name:</b> BLM NV #247 <b>Project Owner:</b> OKY <b>Project Location:</b>				<b>State:</b> NM <b>Zip:</b> 88241 <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b>			
<b>Sampler Name:</b> Foster Hernandez <b>FOR LAB USE ONLY:</b>				<b>Fax #:</b> <b>Phone #:</b>			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER			
H302231	SP3012	CL	1							9.11.13	159	CL- TPH BTEX
	12	CL	1							9.11.13	211	
	13	CL	1							9.11.13	249	
	14	CL	1							9.11.13	324	
	15	CL	1							9.11.13	338	
	16	CL	1							9.11.13	347	
	17	CL	1							9.12.13	1030	
	18	CL	1							9.12.13	1120	
	19	CL	1							9.13.13	1209	

<b>DATE NOTE:</b> Liability and Damages. Contractor's liability and damage provisions remain for any action arising whether made in contract or tort, shall be limited to the amount paid by the client for the services. All claims, including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Client within 30 days after completion of the applicable service. If no event shall constitute an event for purposes of consequential damages, including without limitation, business interruptions, loss of use, or loss of profits, incurred by Client, its subsidiaries, affiliates or associated entities and/or third parties, the performance of services hereunder by Contractor, regardless of whether such claim is based upon one of the above stated reasons or otherwise.	<b>Relinquished By:</b> [Signature] <b>Date:</b> 9.10.13 <b>Time:</b> 4:00 <b>Received By:</b> [Signature] <b>Date:</b> 9.10.13 <b>Time:</b>	<b>Delivered By:</b> (Circle One) Sample - UPS - Bus - Other	<b>Sample Condition:</b> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <b>CHECKED BY:</b> [Signature]
--	---	---	--

<b>REMARKS:</b> Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No    Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No    Add'l Fax #: _____
---



## Leking, Geoffrey R, EMNRD

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**From:** Cliff P. Brunson <cbrunson@bbcinternational.com>  
**Sent:** Tuesday, September 11, 2012 8:01 PM  
**To:** Leking, Geoffrey R, EMNRD  
**Cc:** C J Summers; Ken Swinney; Kathy Purvis; Jennifer Gilkey  
**Subject:** Oxy - MLMU #247  
**Attachments:** Remediation Packet- MLMU #247 - 2.pdf

Geoff,

This e-mail is to confirm our discussion on August 31, 2012 concerning the remediation plan for the release that occurred at the Oxy MLMU #247. As agreed, Oxy will excavate 3 feet in the areas covered by SP1 and SP3 as depicted on the attached site diagram and then place a compacted clay liner in the excavation and backfill with clean soil. The area around SP2 has already been remediated. The depth to groundwater in this area is approximately 100 feet.

I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. If you would please reply back via e-mail with your concurrence of this remediation plan, it would be greatly appreciated.

Oxy and I thank you for your assistance in handling this matter.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
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P. O. Box 805  
Hobbs, NM 88241-0805 USA  
Shipping Address:  
1324 W. Marland St.  
Hobbs, NM 88240 USA  
Phone: (575) 397-6388  
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E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

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# Groundwater Plot

## Oxy MLMU #247

County  
Lea County

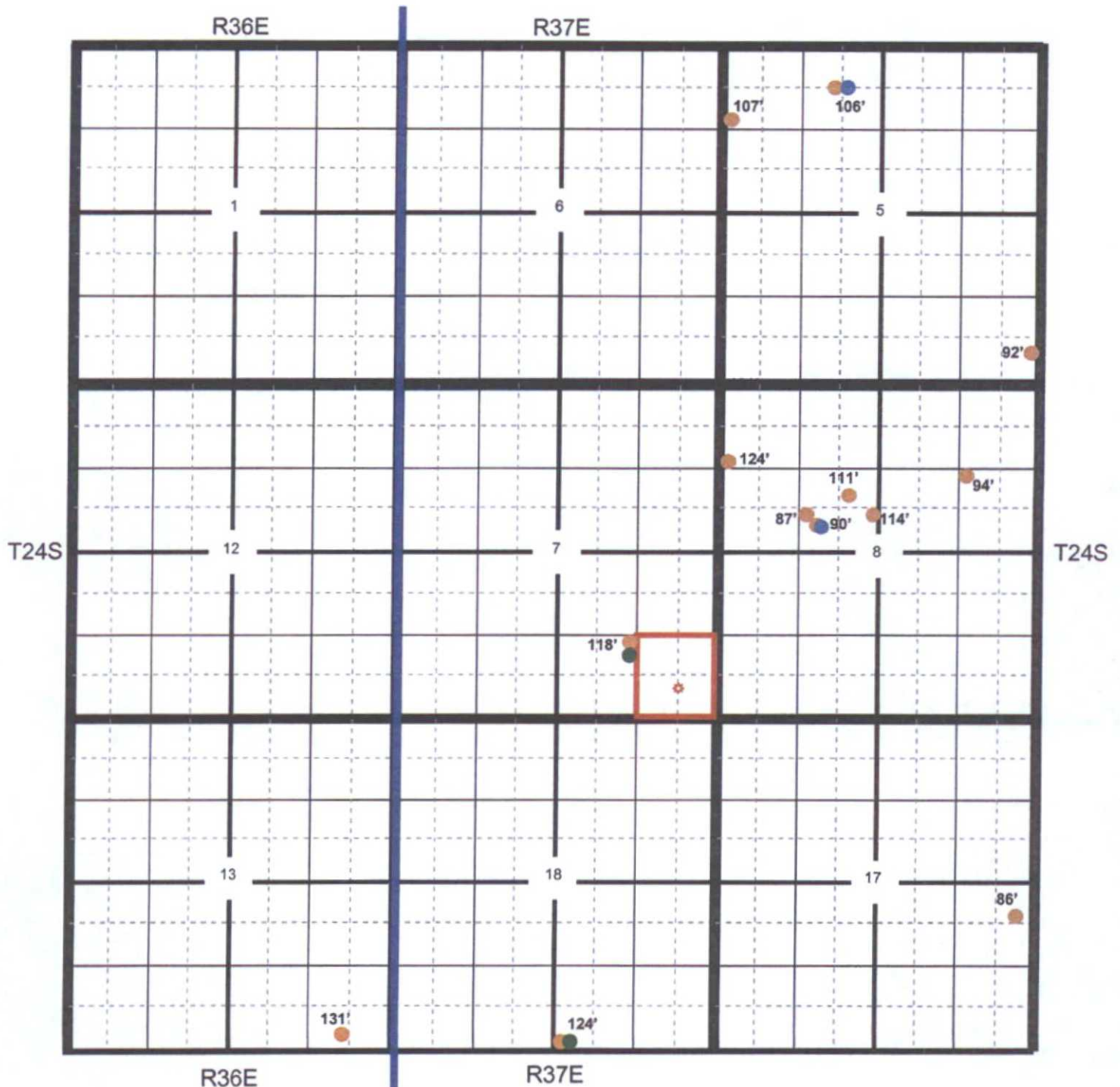
Unit Letter  
P

Section  
7

Township  
24S

Range  
37E

Trend Map 100'



Location

OCD

USGS

SEO

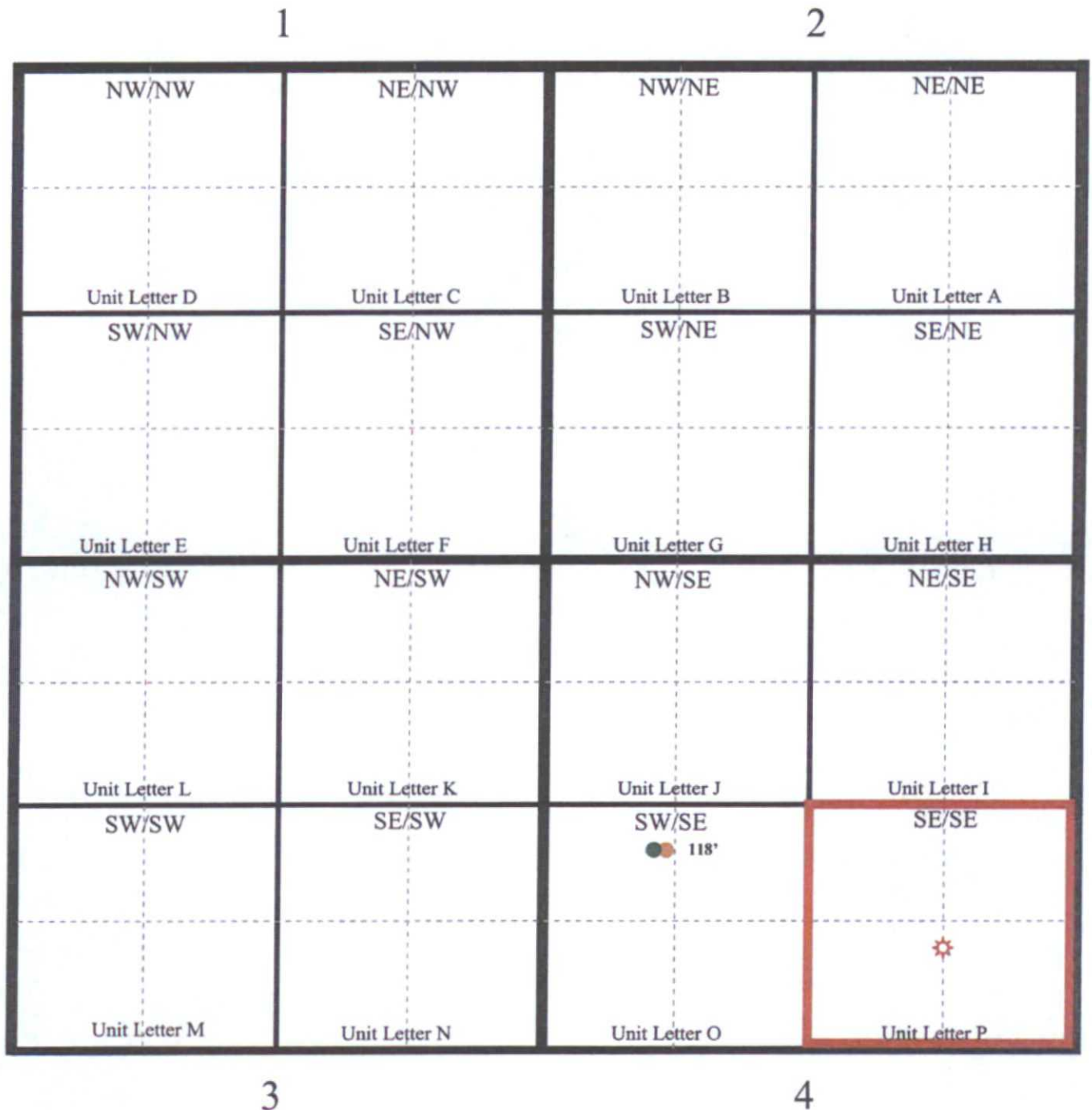
All Databases

Section Quarters

Oxy MLMU #247

County Lea County      Unit Letter P      Section 7      Township 24S      Range 37E

Trend Map 100'

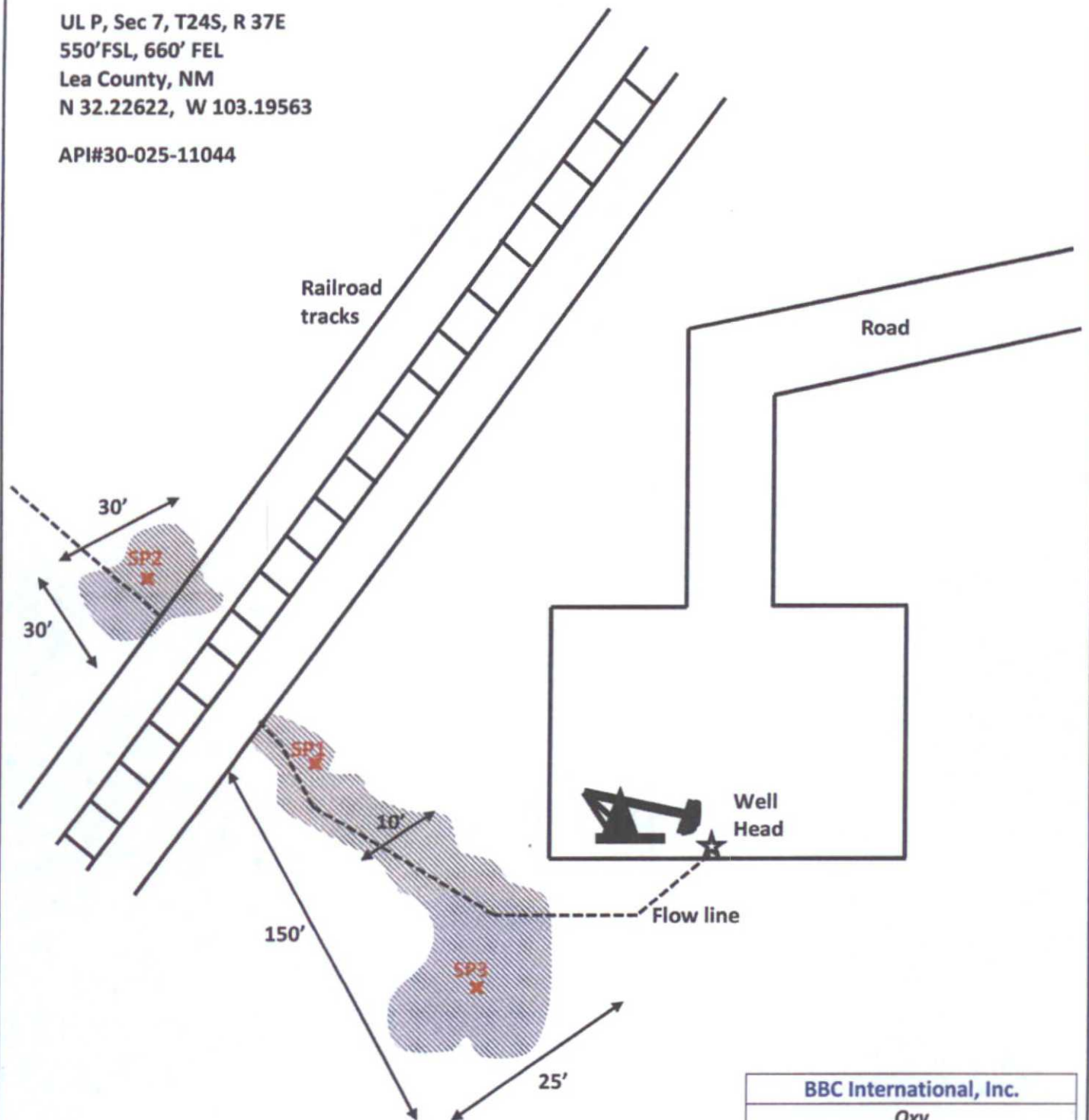




Oxy  
MLMU #247



UL P, Sec 7, T24S, R 37E  
550' FSL, 660' FEL  
Lea County, NM  
N 32.22622, W 103.19563  
API#30-025-11044



BBC International, Inc.	
Oxy MLMU #247	
Date: 1/16/12	DRWG by: KAP
Not to Scale	File: Oxy 2012

**Laboratory Analytical Results Summary  
OXY, MLMU #247**

Analyte	Method	Sample Date	SP1 @ SURFACE 5/11/12	SP1 @ 2' 5/11/12	SP1 @ 5' 5/11/12	SP1 @ 8' 5/11/12	SP2 @ SURFACE 5/11/12	SP2 @ 2' 5/11/12	SP2 @ 3' 5/11/12
Benzene	BTEX 8021B		mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050
Toluene	BTEX 8021B		mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050
Ethylbenzene	BTEX 8021B		mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050
Total Xylenes	BTEX 8021B		mg/Kg 0.212	mg/Kg <0.150	mg/Kg <0.150	mg/Kg <0.150	mg/Kg <0.150	mg/Kg <0.150	mg/Kg <0.150
Chloride	SM4500Cl-B		2480	1180	752	2440	32	32	32
GRO	TPH 8015M		22.5	<20.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		3380	103	218	140	89.4	<10.0	<10.0

Analyte	Method	Sample Date	SP1 @ 11' 5/18/12	SP1 @ 14' 5/18/12	SP1 @ 17' 5/18/12	SP3 @ SURFACE 5/18/12	SP3 @ 2' 5/18/12	SP3 @ 5' 5/18/12	SP3 @ 8' 5/18/12	SP3 @ 11' 5/21/12	SP3 @ 14' 5/21/12	SP3 @ 17' 5/21/12
Benzene	BTEX 8021B		mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050
Toluene	BTEX 8021B		mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg 0.098	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050
Ethylbenzene	BTEX 8021B		mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg 0.193	mg/Kg <0.050	mg/Kg <0.050	mg/Kg 0.145	mg/Kg <0.050	mg/Kg <0.050
Total Xylenes	BTEX 8021B		mg/Kg <0.150	mg/Kg <0.150	mg/Kg <0.150	mg/Kg <0.150	mg/Kg 2.79	mg/Kg <0.150	mg/Kg <0.150	mg/Kg 0.465	mg/Kg <0.150	mg/Kg <0.150
Chloride	SM4500Cl-B		1650	2000	1650	176	752	1600	2040	1500	1470	1700
GRO	TPH 8015M		<10.0	<10.0	<10.0	<50.0	328	<10.0	<10.0	33.8	<10.0	<10.0
DRO	TPH 8015M		<10.0	26.8	53.6	7810	9050	15.8	84.8	813	47.2	24.3

Analyte	Method	Sample Date	SB1 @ 20' 6/26/12	SB1 @ 30' 6/26/12	SB1 @ 40' 6/26/12	SB1 @ 50' 6/26/12	SB2 @ 20' 6/26/12	SB2 @ 25' 6/26/12
Chloride	SM4500Cl-B		mg/Kg 1640	mg/Kg 1280	mg/Kg 400	mg/Kg 32	mg/Kg 320	mg/Kg 80