

Leking, Geoffrey R, EMNRD

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Sunday, December 16, 2012 6:56 PM
To: Leking, Geoffrey R, EMNRD
Cc: Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Oxy NM State #002
Attachments: Remediation Packet-NM State #002-2.pdf

HOBBS OCD
DEC 15 2012

Geoff,

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This message is to confirm our discussion on December 7, 2012 concerning the remediation plan for the Oxy NM State #002 leak site. I have attached the site diagram, groundwater plot, and lab data summary table that we used in our discussion. As mutually agreed, Oxy will excavate to a depth of 1.5 feet in the areas of SP1 and SP3 as depicted on the drawing. In the area of SP2, the impacted soil will be just surfaced scraped. An initial response was conducted right after the spill and a few inches of the heavily impacted soil was removed previously. Upon completion of the excavation, the site will 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:
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Approved
Geoffrey Leking
Environmental Specialist
NMOC D - DIST 1
12/19/12

12/15



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Oxy

NM State #002



X SP3 N 33.45886°
W 103.64632°

X SP1 N 33.45916°
W 103.64581°

X SP2 N 33.45890°
W 103.64609°

U/L K, Section 11, T10S, R 32E
2105' FSL and 1604' FWL
Lea County, NM
N 33.45890° W 103.64609°
API# 30-025-00014

BBC International, Inc.

Oxy

NM State #002

Date: 12/05/2012	DRWG by: K. Purvis
NOT TO SCALE	

12/15



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Groundwater Plot

DEC 15 2012

Oxy NM State #2

County
Lea

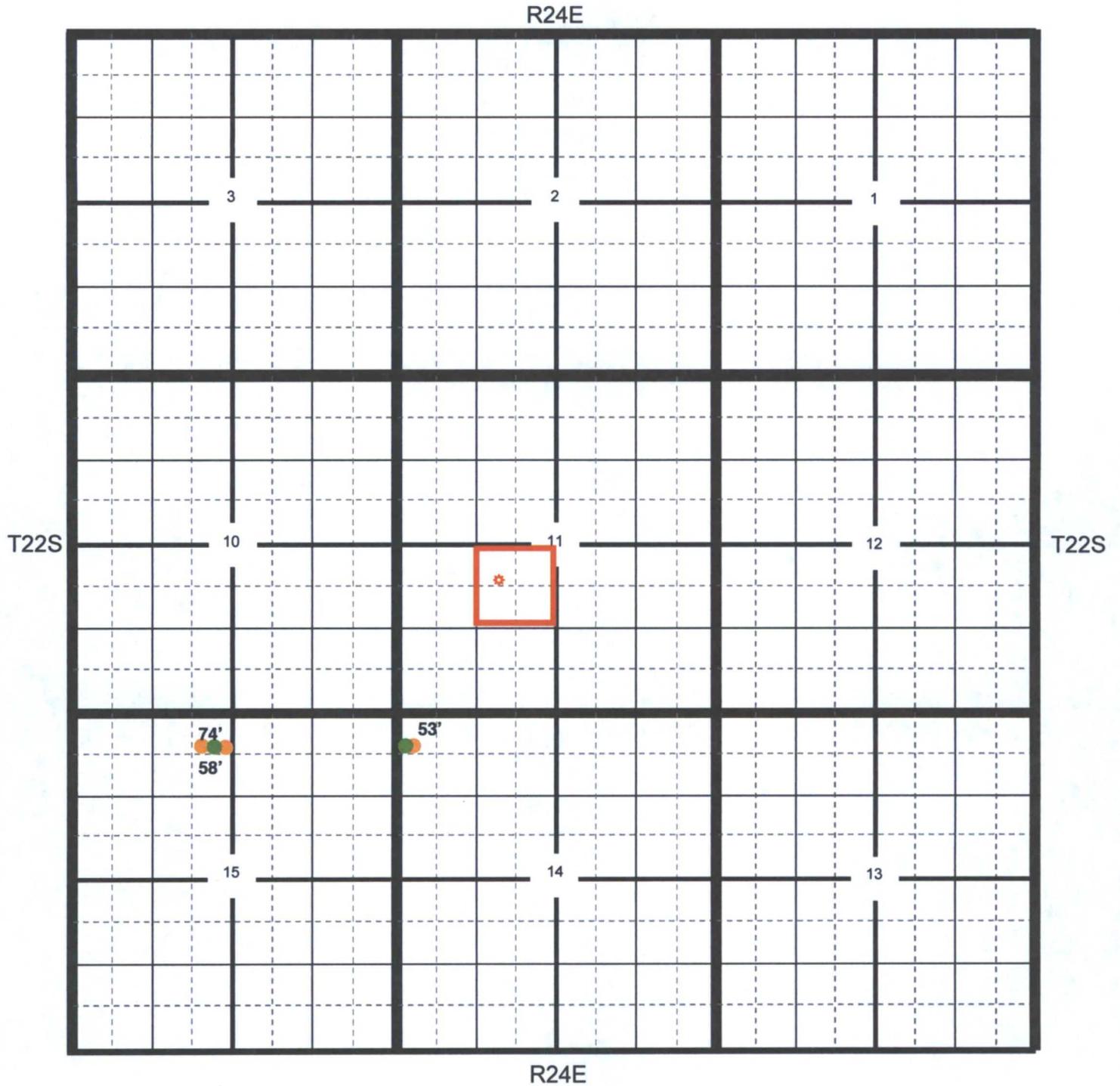
Unit Letter
K

Section
11

Township
10S

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Range
32E

Trend Map >50'



🌟 Location ● OCD ● USGS ● SEO ● All Databases



Section Quarters

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Oxy NM State #002

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County Lea	Unit Letter K	Section 11	Township 10S	Range 32E
----------------------	-------------------------	----------------------	------------------------	---------------------

Trend Map >50'

1

2

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

3

4

 Location
  OCD
  USGS
  SEO
  All Databases

Laboratory Analytical Results Summary
 NM State #002

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Analyte	Method	Sample		SP1 @ 1'	SP1 @ 2'
		Date	Date	11/29/12 mg/Kg	11/29/12 mg/Kg
Benzene	BTEX 8021B			<0.050	<0.050
Toluene	BTEX 8021B			<0.050	<0.050
Ethylbenzene	BTEX 8021B			<0.050	<0.050
Total Xylenes	BTEX 8021B			<0.150	<0.150
Total BTEX	BTEX 8021B			<0.300	<0.300
Chloride	SM4500CH-B			6000	160
GRO	TPH 8015M			<10.0	<10.0
DRO	TPH 8015M			<10.0	<10.0

Analyte	Method	Sample		SP2 @ 1'	SP2 @ 2'
		Date	Date	11/29/12 mg/Kg	11/29/12 mg/Kg
Benzene	BTEX 8021B			<0.050	<0.050
Toluene	BTEX 8021B			<0.050	<0.050
Ethylbenzene	BTEX 8021B			<0.050	<0.050
Total Xylenes	BTEX 8021B			<0.150	<0.150
Total BTEX	BTEX 8021B			<0.300	<0.300
Chloride	SM4500CH-B			<16.0	<16.0
GRO	TPH 8015M			<10.0	<10.0
DRO	TPH 8015M			13.6	<10.0

Analyte	Method	Sample		SP3 @ 1'	SP3 @ 2'
		Date	Date	11/29/12 mg/Kg	11/29/12 mg/Kg
Benzene	BTEX 8021B			<0.050	<0.050
Toluene	BTEX 8021B			<0.050	<0.050
Ethylbenzene	BTEX 8021B			0.152	<0.050
Total Xylenes	BTEX 8021B			<0.150	<0.150
Total BTEX	BTEX 8021B			<0.300	<0.300
Chloride	SM4500CH-B			1490	96
GRO	TPH 8015M			<50.0	<10.0
DRO	TPH 8015M			506	<10.0

December 04, 2012

Cliff Brunson
BBC International, Inc.
P.O. Box 805
Hobbs, NM 88241

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DEC 15 2012

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RE: NM STATE #002

Enclosed are the results of analyses for samples received by the laboratory on 12/03/12 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 12/03/2012
 Reported: 12/04/2012
 Project Name: NM STATE #002
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 11/29/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H202896-01)

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	12/03/2012	ND	1.70	85.0	2.00	1.22		
Toluene*	<0.050	0.050	12/03/2012	ND	1.91	95.3	2.00	2.78		
Ethylbenzene*	<0.050	0.050	12/03/2012	ND	1.87	93.3	2.00	3.28		
Total Xylenes*	<0.150	0.150	12/03/2012	ND	5.70	95.0	6.00	3.24		
Total BTEX	<0.300	0.300	12/03/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	12/03/2012	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	12/03/2012	ND	180	90.2	200	0.988		
DRO >C10-C28	<10.0	10.0	12/03/2012	ND	195	97.5	200	1.26		

Surrogate: 1-Chlorooctane 86.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.1 % 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: (505) 397-0397

 Received: 12/03/2012
 Reported: 12/04/2012
 Project Name: NM STATE #002
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 11/29/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 2' (H202896-02)

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	12/03/2012	ND	1.70	85.0	2.00	1.22		
Toluene*	<0.050	0.050	12/03/2012	ND	1.91	95.3	2.00	2.78		
Ethylbenzene*	<0.050	0.050	12/03/2012	ND	1.87	93.3	2.00	3.28		
Total Xylenes*	<0.150	0.150	12/03/2012	ND	5.70	95.0	6.00	3.24		
Total BTEX	<0.300	0.300	12/03/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/03/2012	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	12/03/2012	ND	180	90.2	200	0.988		
DRO >C10-C28	<10.0	10.0	12/03/2012	ND	195	97.5	200	1.26		

Surrogate: 1-Chlorooctane 78.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 12/03/2012
 Reported: 12/04/2012
 Project Name: NM STATE #002
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 11/29/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H202896-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/03/2012	ND	1.70	85.0	2.00	1.22		
Toluene*	<0.050	0.050	12/03/2012	ND	1.91	95.3	2.00	2.78		
Ethylbenzene*	<0.050	0.050	12/03/2012	ND	1.87	93.3	2.00	3.28		
Total Xylenes*	<0.150	0.150	12/03/2012	ND	5.70	95.0	6.00	3.24		
Total BTEX	<0.300	0.300	12/03/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/03/2012	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	12/03/2012	ND	180	90.2	200	0.988		
DRO >C10-C28	13.6	10.0	12/03/2012	ND	195	97.5	200	1.26		

Surrogate: 1-Chlorooctane 76.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.6 % 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: (505) 397-0397

 Received: 12/03/2012
 Reported: 12/04/2012
 Project Name: NM STATE #002
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 11/29/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 2' (H202896-04)

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	12/03/2012	ND	1.70	85.0	2.00	1.22		
Toluene*	<0.050	0.050	12/03/2012	ND	1.91	95.3	2.00	2.78		
Ethylbenzene*	<0.050	0.050	12/03/2012	ND	1.87	93.3	2.00	3.28		
Total Xylenes*	<0.150	0.150	12/03/2012	ND	5.70	95.0	6.00	3.24		
Total BTEX	<0.300	0.300	12/03/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/03/2012	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	12/03/2012	ND	180	90.2	200	0.988		
DRO >C10-C28	<10.0	10.0	12/03/2012	ND	195	97.5	200	1.26		

Surrogate: 1-Chlorooctane 77.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.3 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 Received: 12/03/2012
 Reported: 12/04/2012
 Project Name: NM STATE #002
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 11/29/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H202896-05)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/03/2012	ND	1.70	85.0	2.00	1.22		
Toluene*	<0.050	0.050	12/03/2012	ND	1.91	95.3	2.00	2.78		
Ethylbenzene*	0.152	0.050	12/03/2012	ND	1.87	93.3	2.00	3.28		
Total Xylenes*	<0.150	0.150	12/03/2012	ND	5.70	95.0	6.00	3.24		
Total BTEX	<0.300	0.300	12/03/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 128 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	12/03/2012	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	<50.0	50.0	12/03/2012	ND	180	90.2	200	0.988		
DRO >C10-C28	506	50.0	12/03/2012	ND	195	97.5	200	1.26		

Surrogate: 1-Chlorooctane 88.3 % 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: (505) 397-0397

 Received: 12/03/2012
 Reported: 12/04/2012
 Project Name: NM STATE #002
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 11/29/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 2' (H202896-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/03/2012	ND	1.70	85.0	2.00	1.22		
Toluene*	<0.050	0.050	12/03/2012	ND	1.91	95.3	2.00	2.78		
Ethylbenzene*	<0.050	0.050	12/03/2012	ND	1.87	93.3	2.00	3.28		
Total Xylenes*	<0.150	0.150	12/03/2012	ND	5.70	95.0	6.00	3.24		
Total BTEX	<0.300	0.300	12/03/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/03/2012	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	12/03/2012	ND	180	90.2	200	0.988		
DRO >C10-C28	<10.0	10.0	12/03/2012	ND	195	97.5	200	1.26		

Surrogate: 1-Chlorooctane 83.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.1 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

