

**Bratcher, Mike, EMNRD**

---

**From:** Cliff P. Brunson [cbrunson@bbcinternational.com]  
**Sent:** Friday, August 26, 2011 9:13 AM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Dusty Wilson; Ken Swinney; Jennifer Gilkey  
**Subject:** Oxy-McKittrick 11-5  
**Attachments:** Oxy-McKittrick 11-5-Diagram and lab data.pdf

Mike,

This e-mail is to confirm our conversation of August 25, 2011 concerning the remediation plan for the Oxy McKittrick 11-5. As discussed, Oxy will remove 6 inches to 1 foot of impacted soil in the spill area as depicted in the attached map. The site will then be backfilled with clean soil. I have attached the map and lab data that we discussed for your files.

If you would please reply back with your concurrence on this path forward, it would be greatly appreciated.

Thank you for your time.

Cliff

Cliff 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)

\*\*\*\*\*

Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please immediately notify the sender by e-mail or by telephone call to (575) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.

\*\*\*\*\*

OXY MC / McK. Trick 11 #5

8-8-11



Surface Lines

ROAD

5' X 25'

15' X 18'

69  
21

SP1 X

SP2 X

SP3 X

5' X 5' SP5 X

18' X 6' SP4 X

Pump

P  
U  
M  
P  
S

Elect. Panel

OXY MC / McKittrick 11 #5

ID	Depth	Date	CL-	odor	Time	Soil type
Sp 1 @ Surface	1ft	8-2-11	400	NO	138	caliche/rock
	1ft		200	NO	150	caliche/rock
	2ft		100	NO	212	caliche/rock
Sp 2 @ Surface	1ft	8-3-11	600	NO	845	caliche/rock
	1ft		175	NO	919	caliche/rock
	2ft		150	NO	939	caliche/rock
Sp 3 @ Surface	1ft	8-3-11	2000	NO	1030 <sup>0</sup>	caliche/rock
	1ft		150	NO	1119	caliche/rock
	2ft		150	NO	1141	caliche/rock
Sp 4 @ Surface		8-3-11	240	NO	1200	caliche/rock
Sp 5 @ Surface	1ft	8-3-11	800	NO	1209	caliche/rock
	1ft		200	NO	109	caliche/rock
	2ft		Refused			

GPS

Sp 1 N. 32° 41440  
W. 104° 47420

Sp 2 N. 32° 41422  
W. 104° 47432

Sp 3 N. 32° 41480  
W. 104° 47438

Sp 4 N. 32° 41405  
W. 104° 47451

Sp 5 N. 32° 41402  
W. 104° 47459

Oxy

McKittrick 11-5

U.L. L

Section 11

T 225

R 24E

Transect map 6W 100f



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

---

August 12, 2011

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

RE: MCKITTRICK 11 #5

Enclosed are the results of analyses for samples received by the laboratory on 08/05/11 16:50.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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,

A handwritten signature in cursive script that reads "Celey D. Keene".

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:	08/05/2011	Sampling Date:	08/02/2011
Reported:	08/12/2011	Sampling Type:	Soil
Project Name:	MCKITTRICK 11 #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

**Sample ID: SP 1 @ SURFACE (H101647-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	08/08/2011	ND	432	108	400	7.14	

**Sample ID: SP 1 @ 1 FT (H101647-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/08/2011	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: ab						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/11/2011	ND	161	80.3	200	1.10		
DRO >C10-C28	12.3	10.0	08/11/2011	ND	148	73.9	200	1.09		

Surrogate: 1-Chlorooctane 67.6 % 70-130  
 Surrogate: 1-Chlorooctadecane 71.0 % 70-130

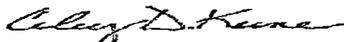
**Sample ID: SP 2 @ SURFACE (H101647-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	08/08/2011	ND	432	108	400	7.14	

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: (505) 397-0397

Received:	08/05/2011	Sampling Date:	08/03/2011
Reported:	08/12/2011	Sampling Type:	Soil
Project Name:	MCKITTRICK 11 #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

**Sample ID: SP 2 @ 1 FT (H101647-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/08/2011	ND	432	108	400	7.14		

**Sample ID: SP3 @ SURFACE (H101647-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	08/08/2011	ND	432	108	400	7.14		

**Sample ID: SP 3 @ 1 FT (H101647-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/08/2011	ND	432	108	400	7.14		

**Sample ID: SP 4 @ SURFACE (H101647-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/08/2011	ND	432	108	400	7.14		

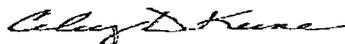
**Sample ID: SP 5 @ SURFACE (H101647-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	08/08/2011	ND	432	108	400	7.14		

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: (505) 397-0397

Received:	08/05/2011	Sampling Date:	08/03/2011
Reported:	08/12/2011	Sampling Type:	Soil
Project Name:	MCKITTRICK 11 #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

**Sample ID: SP 5 @ 1 FT (H101647-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/08/2011	ND	432	108	400	7.14		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/11/2011	ND	161	80.3	200	1.10		
DRO >C10-C28	25.5	10.0	08/11/2011	ND	148	73.9	200	1.09		
Surrogate: 1-Chlorooctane	87.3 %	70-130								
Surrogate: 1-Chlorooctadecane	89.9 %	70-130								

Cardinal Laboratories

\*=Accredited Analyte

RELEASE 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

### Notes and Definitions

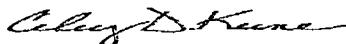
- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*             Samples not received at proper temperature 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

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 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 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



**ARDINAL LABORATORIES**

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

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

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>				
Project Manager: Cliff Brunson				P.O. #:								
Address: P.O. Box 805				Company:								
City: Hobbs		State: NM		Zip: 88241		Attn:						
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:								
Project #:		Project Owner: Oxyxidation		City: SAME								
Project Name: McK. Hack 11 #5				State:				Zip:				
Project Location: Indian Basin				Phone #:								
Sampler Name: Jeff Cooper				Fax #:								
FOR LAB USE ONLY												
Lab I.D.		Sample I.D.		GRAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.		SAMPLING	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER:
H101647												
1		Sp 1 @ Surface		G	1	X				X	8-2-11	130
2		Sp 1 @ 1ft		G	1	X				X	8-2-11	150
3		Sp 2 @ Surface		G	1	X				X	8-3-11	845
4		Sp 2 @ 1ft		G	1	X				X		919
5		Sp 3 @ Surface		G	1	X				X		1030
6		Sp 3 @ 1ft		G	1	X				X		1119
7		Sp 4 @ Surface		G	1	X				X		1200
8		Sp 5 @ Surface		G	1	X				X		1209
9		Sp 5 @ 1ft		G	1	X				X		109

CL -  
TPH

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Jeff Cooper</i>	Date: 8-5-11	Received By: <i>Yodi Newson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Checked By: <i>JA</i>		

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

#26