

## Bratcher, Mike, EMNRD

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**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  
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World-Wide Environmental Specialists  
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OXY MC / McK. Trick 11 #5

8-2-11



Surface Lines

ROAD

150035

SP1 X

69  
21

SP2 X

150035

SP3 X

SP4 X

SP5 X

Pump

P  
U  
M  
P  
S

fire wall

Elect. Panel

# OXY MC / McKittrick 11 #5

ID	Depth	Date	CL	odor	Time	Soil type
Sp 1 @	Surface	8-2-11	400	NO	138	Caliche/Rock
	1ft		200	NO	150	Caliche/Rock
	2ft		100	NO	212	Caliche/Rock
Sp 2 @	Surface	8-3-11	600	NO	845	Caliche/Rock
	1ft		175	NO	919	Caliche/Rock
	2ft		150	NO	939	Caliche/Rock
Sp 3 @	Surface	8-3-11	2000	NO	1030	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	8-3-11	800	NO	1209	Caliche/Rock
	1ft		200	NO	109	Caliche/Rock
	2ft	Refused				

GPS

Sp1 N. 32° 41440  
W. 104° 47420

Sp2 N. 32° 41422  
W. 104° 47432

Sp3 N. 32° 41480  
W. 104° 47438

Sp4 N. 32° 41405  
W. 104° 47451

Sp5 N. 32° 41402  
W. 104° 47459

Oxy

McKittrick 11-5

U.L. L

Section 11

T 225

R 24E

Tran Map 6W 100f



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

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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 black ink that reads "Caley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Caley 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  
Reported: 08/12/2011  
Project Name: MCKITTRICK 11 #5  
Project Number: NONE GIVEN  
Project Location: INDIAN BASIN

Sampling Date: 08/02/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**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						
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

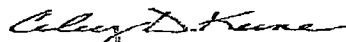
**Sample ID: SP 2 @ SURFACE (H101647-03)**

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

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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:	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	

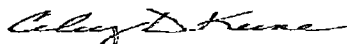
**Sample ID: SP 5 @ SURFACE (H101647-08)**

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	

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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:	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		

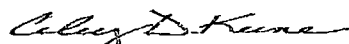
**Sample ID: SP 5 @ 1 FT (H101647-09)**

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							

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

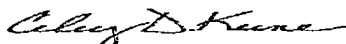
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	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

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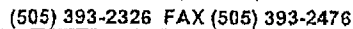
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Celest D. Keene, Lab Director/Quality Manager





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