

Bratcher, Mike, EMNRD

From: Cliff P. Brunson [cbrunson@bbcinternational.com]
Sent: Wednesday, January 12, 2011 3:32 PM
To: Bratcher, Mike, EMNRD
Cc: Kelton Beard; Ken Swinney; Jennifer Gilkey
Subject: Oxy MidCon-North Indian Basin Unit #15
Attachments: North Indian Basin Unit #15.pdf

Mike,

This e-mail is to confirm our discussion yesterday, Jan. 11, 2010, concerning the remediation plan for the Oxy North Indian Basin Unit #15 release. I have attached the information that we reviewed together.

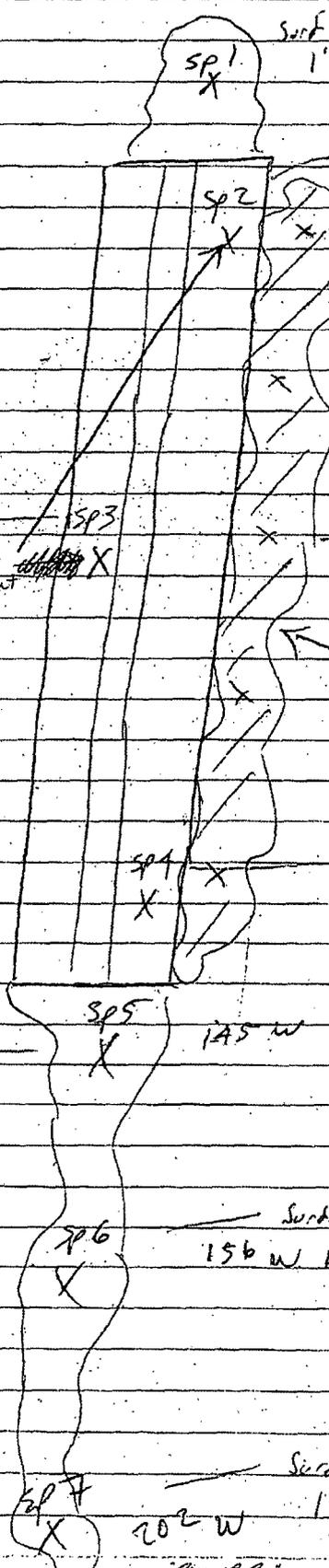
As you recall, Oxy proposed to backfill the open excavation trench with the spoils pile and then at the north end of the release in the area of sample points SP5, SP6, and SP7, a one foot excavation would be performed. The excavated soil will be disposed of at an OCD-approved facility and the site will be backfilled with clean soil.

Please respond back via e-mail with your concurrence and approval.

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 Blvd.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-mail: cbrunson@bbcinternational.com
Web: www.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 collect 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.



Surf - CI - 216
1' - CI - 16

3' CI 32
4' CI 144 TPH NO BTEX NO

175
X
12

3' CI - 128
4' CI - 32
TPH NO
BTEX NO
Lank point

S-pnt composite #1 - CI - 272
TPH NO
BTEX NO
Stockpile

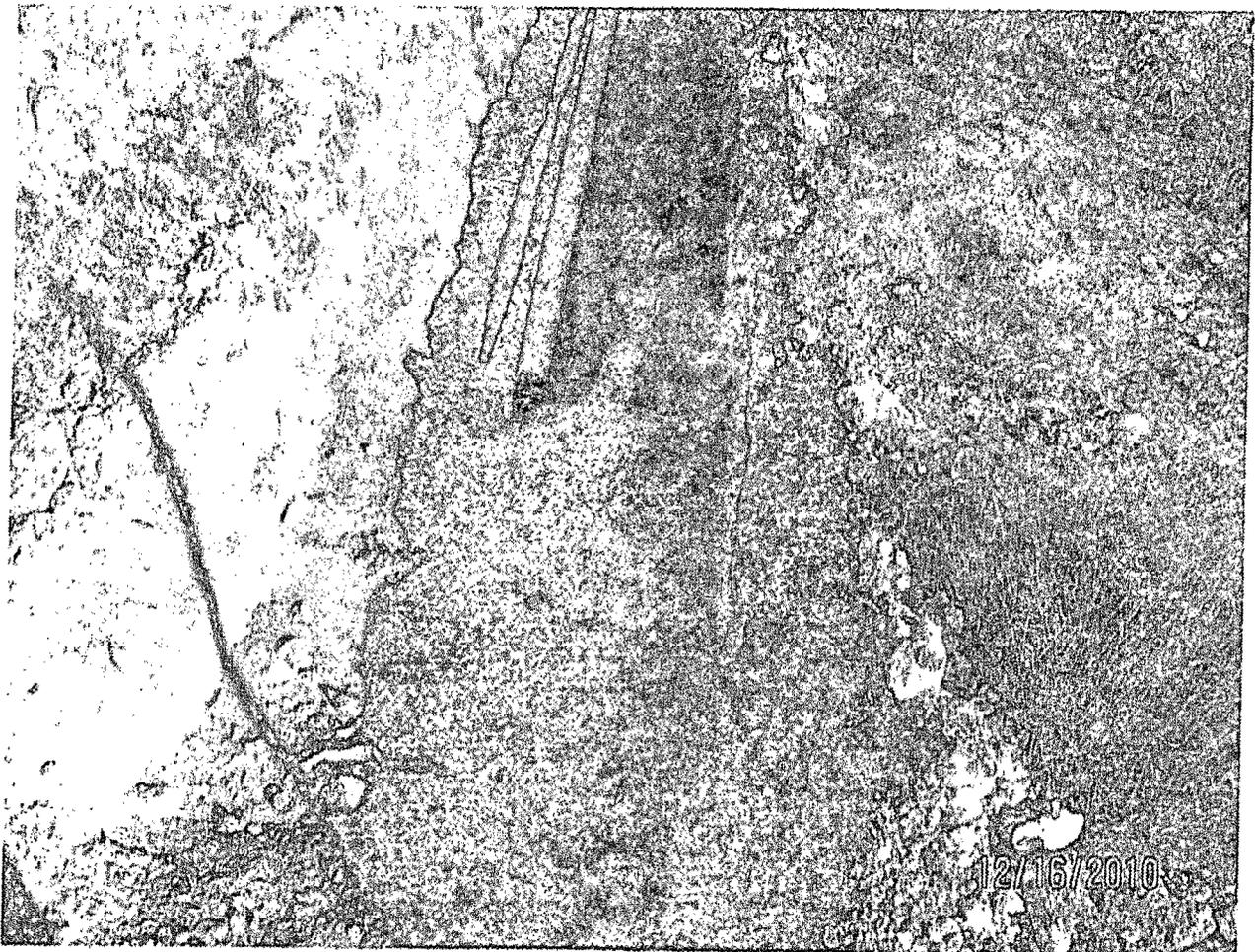
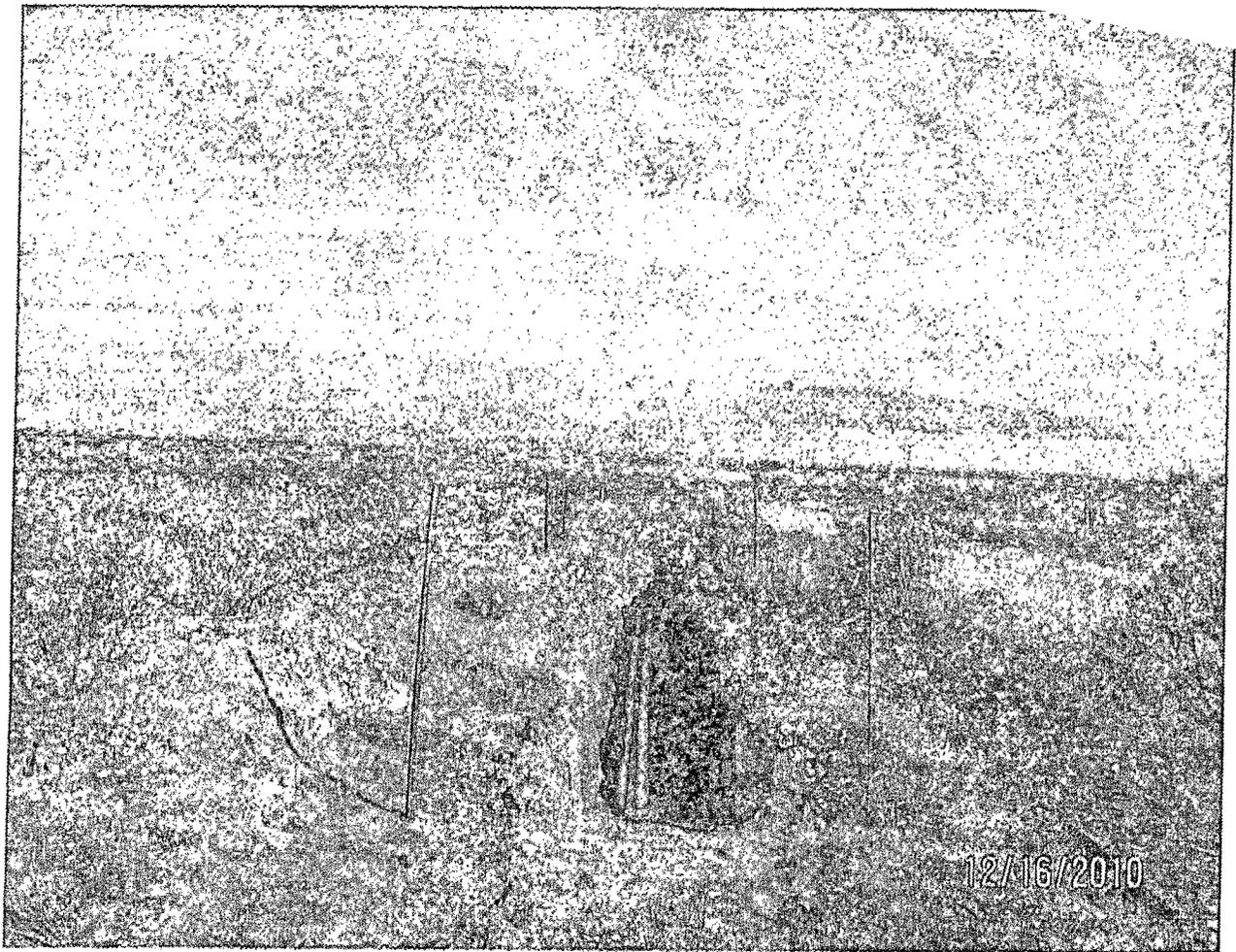
5' CI - 64
4' CI - 256

Surface CI 2720
1' CI 144
BTEX NO
2' CI 112
TPH R9.2
BTEX NO

Surface CI 1630
1650
156 W 1' CI 160
BTEX NO
2' CI 128

Surf CI 544
544
1' CI 368
BTEX NO

3' CI 112
TPH - NO





January 05, 2011

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

RE: NORTH INDIAN BASIN UNIT #15

Enclosed are the results of analyses for samples received by the laboratory on 12/30/10 16:30.

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,

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:	12/30/2010	Sampling Date:	12/23/2010
Reported:	01/05/2011	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: 5 POINT COMPOSITE (H021630-01)

BTEX \$260B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/03/2011	ND	2.03	102	2.00	1.12	
Toluene*	<0.100	0.100	01/03/2011	ND	2.00	100	2.00	5.36	
Ethylbenzene*	<0.100	0.100	01/03/2011	ND	1.96	98.0	2.00	2.37	
Total Xylenes*	<0.300	0.300	01/03/2011	ND	5.52	92.0	6.00	3.07	

Surrogate: Dibromofluoromethane 122 % 80-120
Surrogate: Toluene-d8 91.8 % 80-120
Surrogate: 4-Bromofluorobenzene 92.9 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/03/2011	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/01/2011	ND	173	86.5	200	8.17	
DRO >C10-C28	<10.0	10.0	01/01/2011	ND	150	75.2	200	22.3	

Surrogate: 1-Chlorooctane 108 % 70-130
Surrogate: 1-Chlorooctadecane 117 % 70-130

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 interruption, 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:	12/30/2010	Sampling Date:	12/23/2010
Reported:	01/05/2011	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: SP 1 @ SURFACE (H021630-02)

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	01/03/2011	ND	416	104	400	7.41		

Sample ID: SP 1 @ 1 FT (H021630-03)

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	01/03/2011	ND	416	104	400	7.41		

Sample ID: SP 2 @ 3 FT. (H021630-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/03/2011	ND	416	104	400	7.41		

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:	12/30/2010	Sampling Date:	12/23/2010
Reported:	01/05/2011	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: SP 2 @ 4 FT. (H021630-05)

BTEX 8260B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/03/2011	ND	2.03	102	2.00	1.12	
Toluene*	<0.100	0.100	01/03/2011	ND	2.00	100	2.00	5.36	
Ethylbenzene*	<0.100	0.100	01/03/2011	ND	1.96	98.0	2.00	2.37	
Total Xylenes*	<0.300	0.300	01/03/2011	ND	5.52	92.0	6.00	3.07	

Surrogate: Dibromofluoromethane 124 % 80-120
 Surrogate: Toluene-d8 90.9 % 80-120
 Surrogate: 4-Bromofluorobenzene 94.8 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/03/2011	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/01/2011	ND	173	86.5	200	8.17	
DRO >C10-C28	<10.0	10.0	01/01/2011	ND	150	75.2	200	22.3	

Surrogate: 1-Chlorooctane 114 % 70-130
 Surrogate: 1-Chlorooctadecane 125 % 70-130

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:	12/30/2010	Sampling Date:	12/28/2010
Reported:	01/05/2011	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: SP 3 @ 3 FT. (H021630-06)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/03/2011	ND	416	104	400	7.41	

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:	12/30/2010	Sampling Date:	12/28/2010
Reported:	01/05/2011	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: SP 3 @ 4 FT. (H021630-07)

BTEX 8260B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	01/03/2011	ND	2.03	102	2.00	1.12		
Toluene*	<0.100	0.100	01/03/2011	ND	2.00	100	2.00	5.36		
Ethylbenzene*	<0.100	0.100	01/03/2011	ND	1.96	98.0	2.00	2.37		
Total Xylenes*	<0.300	0.300	01/03/2011	ND	5.52	92.0	6.00	3.07		

Surrogate: Dibromofluoromethane 127 % 80-120

Surrogate: Toluene-d8 93.6 % 80-120

Surrogate: 4-Bromofluorobenzene 92.4 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	01/03/2011	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/01/2011	ND	173	86.5	200	8.17		
DRO >C10-C28	<10.0	10.0	01/01/2011	ND	150	75.2	200	22.3		

Surrogate: 1-Chlorooctane 89.8 % 70-130

Surrogate: 1-Chlorooctadecane 96.7 % 70-130

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:	12/30/2010	Sampling Date:	12/28/2010
Reported:	01/05/2011	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: SP 4 @ 3 FT. (H021630-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/03/2011	ND	416	104	400	7.41		

Sample ID: SP 4 @ 4 FT (H021630-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/03/2011	ND	416	104	400	7.41		

Sample ID: SP 5 @ SURFACE (H021630-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	01/03/2011	ND	416	104	400	7.41		

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:	12/30/2010	Sampling Date:	12/29/2010
Reported:	01/05/2011	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: SP 5 @ 2 FT (H021630-11)

BTEX 8260B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	01/03/2011	ND	2.03	102	2.00	1.12		
Toluene*	<0.100	0.100	01/03/2011	ND	2.00	100	2.00	5.36		
Ethylbenzene*	<0.100	0.100	01/03/2011	ND	1.96	98.0	2.00	2.37		
Total Xylenes*	<0.300	0.300	01/03/2011	ND	5.52	92.0	6.00	3.07		

Surrogate: Dibromofluoromethane 125 % 80-120
 Surrogate: Toluene-d8 90.4 % 80-120
 Surrogate: 4-Bromofluorobenzene 94.4 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/03/2011	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/01/2011	ND	173	86.5	200	8.17		
DRO >C10-C28	89.3	10.0	01/01/2011	ND	150	75.2	200	22.3		

Surrogate: 1-Chlorooctane 109 % 70-130
 Surrogate: 1-Chlorooctadecane 118 % 70-130

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:	12/30/2010	Sampling Date:	12/29/2010
Reported:	01/05/2011	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: SP 6 @ SURFACE (H021630-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1630	16.0	01/03/2011	ND	416	104	400	7.41		

Sample ID: SP 6 @ 2 FT (H021630-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/03/2011	ND	416	104	400	7.41		

Sample ID: SP 7 @ SURFACE (H021630-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	01/03/2011	ND	416	104	400	7.41		

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:	12/30/2010	Sampling Date:	12/29/2010
Reported:	01/05/2011	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: SP 7 @ 3 FT (H021630-15)

BTX 8260B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/03/2011	ND	2.03	102	2.00	1.12	
Toluene*	<0.100	0.100	01/03/2011	ND	2.00	100	2.00	5.36	
Ethylbenzene*	<0.100	0.100	01/03/2011	ND	1.96	98.0	2.00	2.37	
Total Xylenes*	<0.300	0.300	01/03/2011	ND	5.52	92.0	6.00	3.07	

Surrogate: Dibromofluoromethane 124 % 80-120

Surrogate: Toluene-d8 94.3 % 80-120

Surrogate: 4-Bromofluorobenzene 89.0 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/03/2011	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/01/2011	ND	173	86.5	200	8.17	
DRO >C10-C28	<10.0	10.0	01/01/2011	ND	150	75.2	200	22.3	

Surrogate: 1-Chlorooctane 105 % 70-130

Surrogate: 1-Chlorooctadecane 116 % 70-130

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



Notes and Definitions

- Z-01 Surrogates outside historical limits.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 5°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

1/2



CARDINAL 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.				BILL TO				ANALYSIS REQUEST																				
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: Same																								
Project #:				Project Owner: <i>City-midcon</i>				City:																				
Project Name: <i>North Indian Basin Unit #15</i>				State:				Zip:																				
Project Location: <i>Curtisbad, NM</i>				Phone #:																								
Sampler Name: <i>V.H. Ornelas</i>				Fax #:																								
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV		SAMPLING																
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME													
	<i>H21610-1</i>	<i>Spaint Composite</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>12/23/10</i>	<i>09:39</i>	<i>X</i>	<i>X</i>	<i>+</i>										
	<i>2</i>	<i>Sp1 @ Surface</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>12/23/10</i>	<i>10:35</i>	<i>X</i>												
	<i>3</i>	<i>Sp1 @ 1ft</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>12/24/10</i>	<i>2:22</i>	<i>X</i>												
	<i>4</i>	<i>Sp3 @ 3ft</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>12/24/10</i>	<i>11:11</i>	<i>X</i>												
	<i>5</i>	<i>Sp3 @ 4ft</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>12/24/10</i>	<i>11:55</i>	<i>X</i>	<i>X</i>	<i>+</i>										
	<i>6</i>	<i>Sp3 @ 3ft</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>12/24/10</i>	<i>2:59</i>	<i>X</i>												
	<i>7</i>	<i>Sp3 @ 4ft</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>12/24/10</i>	<i>3:25</i>	<i>X</i>	<i>X</i>	<i>X</i>										
	<i>8</i>	<i>Sp4 @ 3ft</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>12/23/10</i>	<i>3:59</i>	<i>X</i>												
	<i>9</i>	<i>Sp4 @ 4ft</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>12/28/10</i>	<i>4:20</i>	<i>X</i>												
	<i>10</i>	<i>Sp5 @ Surface</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>12/28/10</i>	<i>10:16</i>	<i>X</i>												

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's excessive 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:	Date:	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>V.H. Ornelas</i>	<i>12-30-10</i>	<i>Yodi Nenson</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Time:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
	<i>10:30</i>			
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	<i>[Signature]</i>		

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

#26

2/2

CARDINAL 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.				BILL TO				ANALYSIS REQUEST																						
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: <i>Schwe</i>																										
Project #:		Project Owner: <i>Oxy-midcon</i>		City:																										
Project Name: <i>North Indian Basin Unit #15</i>				State:				Zip:																						
Project Location: <i>Carlsbad, NM</i>				Phone #:																										
Sampler Name: <i>Vitt Ornelas</i>				Fax #:																										
FOR LAB USE ONLY																														
Lab I.D.		Sample I.D.		G/GRAE OR (COMP. # CONTAINERS)	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE		TIME														
H211070-11		Sp 5 @ 2ft		G			X				X			12/27/10		1100		X	X	X										
12		Sp 6 @ Surface		G			X				X			12/29/10		1111		X	X											
13		Sp 6 @ 2ft		G			X				X			12/29/10		1103		X												
14		Sp 7 @ Surface		G			X				X			12/29/10		1119		X												
15		Sp 7 @ 3ft		G			X				X			12/29/10		3000		X	X	X										

CL - TPH - 8015.0 BTEX

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>Vitt Ornelas</i>		Date: <i>12-30-10</i>		Received By: <i>Ardi Henson</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <i>10:30</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other:				Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		<i>AW</i>			

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

#26

Analytical Results For:

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

Received:	12/29/2010	Sampling Date:	12/28/2010
Reported:	12/30/2010	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: SP 5 @ 1 FT. W (H021611-01)

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2010	ND	2.09	105	2.00	11.2	
Toluene*	<0.050	0.050	12/29/2010	ND	2.21	110	2.00	11.1	
Ethylbenzene*	<0.050	0.050	12/29/2010	ND	2.30	115	2.00	12.8	
Total Xylenes*	<0.150	0.150	12/29/2010	ND	6.74	112	6.00	12.3	

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/29/2010	ND	448	112	400	0.00	

Sample ID: SP 6 @ 1 FT. W (H021611-02)

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2010	ND	2.09	105	2.00	11.2	
Toluene*	<0.050	0.050	12/29/2010	ND	2.21	110	2.00	11.1	
Ethylbenzene*	<0.050	0.050	12/29/2010	ND	2.30	115	2.00	12.8	
Total Xylenes*	<0.150	0.150	12/29/2010	ND	6.74	112	6.00	12.3	

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/29/2010	ND	448	112	400	0.00	

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:	12/29/2010	Sampling Date:	12/28/2010
Reported:	12/30/2010	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: SP 7 @ 1 FT. W (H021611-03)

BTEX 80218		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/29/2010	ND	2.09	105	2.00	11.2		
Toluene*	<0.050	0.050	12/29/2010	ND	2.21	110	2.00	11.1		
Ethylbenzene*	<0.050	0.050	12/29/2010	ND	2.30	115	2.00	12.8		
Total Xylenes*	<0.150	0.150	12/29/2010	ND	6.74	112	6.00	12.3		

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	12/29/2010	ND	448	112	400	0.00		

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

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

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



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.				BILL TO				ANALYSIS REQUEST					
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: <i>Same</i>									
Project #:		Project Owner: <i>Oxy-Midcon</i>		City:									
Project Name: <i>North Indian Basin Unit #15</i>				State: Zip:									
Project Location: <i>Cordoba, NM</i>				Phone #:									
Sampler Name: <i>Wolf Canyon</i>				Fax #:									
FOR LAB USE ONLY													
Lab I.D.		Sample I.D.		# CONTAINERS	MATRIX			PRESERV		SAMPLING			
		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	



December 30, 2010

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

RE: NORTH INDIAN BASIN UNIT #15

Enclosed are the results of analyses for samples received by the laboratory on 12/29/10 8:45.

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