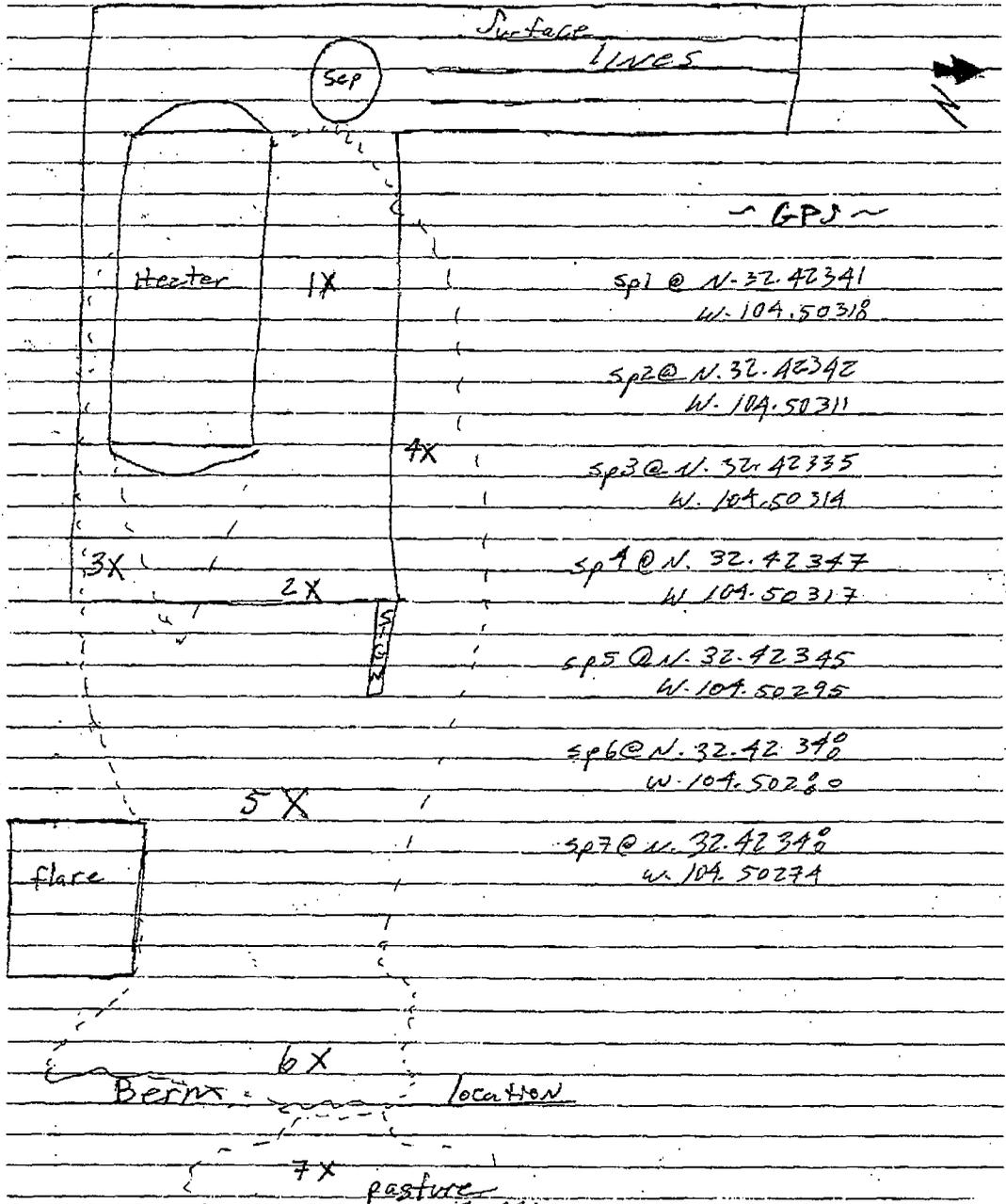


6-9-11

OXY Meadow / Lower Canyon # Fed #5



gw 50'



June 20, 2011

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

RE: JONES CANYON 4 FED #5

Enclosed are the results of analyses for samples received by the laboratory on 06/15/11 17:00.

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:	06/15/2011	Sampling Date:	06/09/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H101252-01)

BTX 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	06/20/2011	ND	1.89	94.5	2.00	3.65		
Toluene*	0.849	0.050	06/20/2011	ND	2.00	100	2.00	4.10		
Ethylbenzene*	0.704	0.050	06/20/2011	ND	2.02	101	2.00	3.90		
Total Xylenes*	4.96	0.150	06/20/2011	ND	6.00	100	6.00	4.06		

Surrogate: 4-Bromofluorobenzene (PIL) 127 % 70-130

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	06/17/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	06/19/2011	ND	232	116	200	5.92		
DRO >C10-C28	12300	100	06/19/2011	ND	229	115	200	1.08		

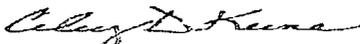
Surrogate: 1-Chlorooctane 80.7 % 70-130

Surrogate: 1-Chlorooctadecane 105 % 70-130

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:	06/15/2011	Sampling Date:	06/09/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

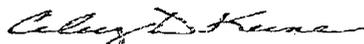
Sample ID: SP 1 @ 2' (H101252-02)

TPH 8015M	mg/kg		Analyzed By: CK					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/19/2011	ND	232	116	200	5.92		
DRO >C10-C28	<10.0	10.0	06/19/2011	ND	229	115	200	1.08		
<hr/>										
Surrogate: 1-Chlorooctane	67.6 %	70-130								
Surrogate: 1-Chlorooctadecane	87.3 %	70-130								

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

Received:	06/15/2011	Sampling Date:	06/09/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' (H101252-03)

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	06/20/2011	ND	1.89	94.5	2.00	3.65		
Toluene*	<0.050	0.050	06/20/2011	ND	2.00	100	2.00	4.10		
Ethylbenzene*	<0.050	0.050	06/20/2011	ND	2.02	101	2.00	3.90		
Total Xylenes*	<0.150	0.150	06/20/2011	ND	6.00	100	6.00	4.06		

Surrogate: 4-Bromofluorobenzene (PIL) 97.1 % 70-130

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	06/17/2011	ND	432	108	400	0.00		

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	06/19/2011	ND	232	116	200	5.92		
DRO >C10-C28	<10.0	10.0	06/19/2011	ND	229	115	200	1.08		

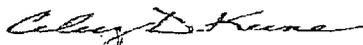
Surrogate: 1-Chlorooctane 87.1 % 70-130

Surrogate: 1-Chlorooctadecane 101 % 70-130

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Analytical Results For:

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

Received:	06/15/2011	Sampling Date:	06/09/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

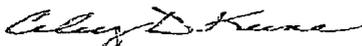
Sample ID: SP 2 @ 2' (H101252-04)

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	06/19/2011	ND	232	116	200	5.92	
DRO >C10-C28	<10.0	10.0	06/19/2011	ND	229	115	200	1.08	
<hr/>									
Surrogate: 1-Chlorooctane	93.2 %	70-130							
Surrogate: 1-Chlorooctadecane	107 %	70-130							

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

Received:	06/15/2011	Sampling Date:	06/09/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ SURFACE (H101252-05)

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	06/20/2011	ND	1.89	94.5	2.00	3.65		
Toluene*	0.783	0.050	06/20/2011	ND	2.00	100	2.00	4.10		
Ethylbenzene*	0.274	0.050	06/20/2011	ND	2.02	101	2.00	3.90		
Total Xylenes*	5.78	0.150	06/20/2011	ND	6.00	100	6.00	4.06		

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 70-130

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	06/17/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	06/19/2011	ND	232	116	200	5.92		
DRO >C10-C28	31200	100	06/19/2011	ND	229	115	200	1.08		

Surrogate: 1-Chlorooctane 138 % 70-130

Surrogate: 1-Chlorooctadecane 141 % 70-130

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Analytical Results For:

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

Received:	06/15/2011	Sampling Date:	06/09/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

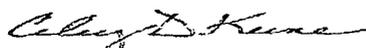
Sample ID: SP 3 @ 1' (H101252-06)

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	06/19/2011	ND	232	116	200	5.92	
DRO >C10-C28	<10.0	10.0	06/19/2011	ND	229	115	200	1.08	
<i>Surrogate: 1-Chlorooctane</i>	<i>87.8 %</i>	<i>70-130</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>105 %</i>	<i>70-130</i>							

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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:	06/15/2011	Sampling Date:	06/09/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ SURFACE (H101252-07)

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	06/20/2011	ND	1.89	94.5	2.00	3.65		
Toluene*	<0.050	0.050	06/20/2011	ND	2.00	100	2.00	4.10		
Ethylbenzene*	<0.050	0.050	06/20/2011	ND	2.02	101	2.00	3.90		
Total Xylenes*	0.166	0.150	06/20/2011	ND	6.00	100	6.00	4.06		

Surrogate: 4-Bromofluorobenzene (PIL) 99.4 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	06/17/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	06/19/2011	ND	232	116	200	5.92			
DRO >C10-C28	240	10.0	06/19/2011	ND	229	115	200	1.08			

Surrogate: 1-Chlorooctane 127 % 70-130

Surrogate: 1-Chlorooctadecane 137 % 70-130

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

Received:	06/15/2011	Sampling Date:	06/10/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ SURFACE (H101252-08)

BTX 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	06/20/2011	ND	1.89	94.5	2.00	3.65		
Toluene*	<0.050	0.050	06/20/2011	ND	2.00	100	2.00	4.10		
Ethylbenzene*	<0.050	0.050	06/20/2011	ND	2.02	101	2.00	3.90		
Total Xylenes*	<0.150	0.150	06/20/2011	ND	6.00	100	6.00	4.06		

Surrogate: 4-Bromofluorobenzene (PII) 93.2 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	06/17/2011	ND	432	108	400	0.00		

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	06/19/2011	ND	232	116	200	5.92		
DRO >C10-C28	<10.0	10.0	06/19/2011	ND	229	115	200	1.08		

Surrogate: 1-Chlorooctane 107 % 70-130

Surrogate: 1-Chlorooctadecane 122 % 70-130

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 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	06/15/2011	Sampling Date:	06/10/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ SURFACE (H101252-09)

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	06/20/2011	ND	1.89	94.5	2.00	3.65		
Toluene*	<0.050	0.050	06/20/2011	ND	2.00	100	2.00	4.10		
Ethylbenzene*	<0.050	0.050	06/20/2011	ND	2.02	101	2.00	3.90		
Total Xylenes*	0.335	0.150	06/20/2011	ND	6.00	100	6.00	4.06		

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	4.00	06/17/2011	ND	448	112	400	3.64		

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	06/19/2011	ND	232	116	200	5.92		
DRO >C10-C28	86.6	10.0	06/19/2011	ND	229	115	200	1.08		

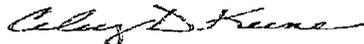
Surrogate: 1-Chlorooctane 134 % 70-130

Surrogate: 1-Chlorooctadecane 148 % 70-130

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 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	06/15/2011	Sampling Date:	06/10/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 1' (H101252-10)

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	06/20/2011	ND	1.89	94.5	2.00	3.65		
Toluene*	<0.050	0.050	06/20/2011	ND	2.00	100	2.00	4.10		
Ethylbenzene*	<0.050	0.050	06/20/2011	ND	2.02	101	2.00	3.90		
Total Xylenes*	<0.150	0.150	06/20/2011	ND	6.00	100	6.00	4.06		

Surrogate: 4-Bromofluorobenzene (PII) 99.5 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	06/17/2011	ND	448	112	400	3.64		

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	06/19/2011	ND	232	116	200	5.92		
DRO >C10-C28	<10.0	10.0	06/19/2011	ND	229	115	200	1.08		

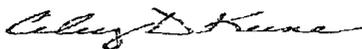
Surrogate: 1-Chlorooctane 101 % 70-130

Surrogate: 1-Chlorooctadecane 96.1 % 70-130

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* = Accredited Analyte

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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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*=Accredited Analyte

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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

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST																					
Project Manager: Cliff Brunson		P.O. #:		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH 8015 M</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> </div>																					
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: Oxy MC	City:																							
Project Name: Indian Basin CTB		State: Zip:																							
Project Location: Carlsbad, NM		Phone #:																							
Sampler Name: Jeff Ornelas		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											
H101253																									
-1	SP1 @ 1'	G	1			✓					✓		6-13-11	10:20 am	✓	✓	✓								
2	SP2 @ 1'	G	1			✓					✓		6-13-11	2:08 pm	✓	✓	✓								
3	SP3 @ 1'	G	1			✓					✓		6-13-11	3:29 pm	✓	✓	✓								
4	SP4 @ 1'	G	1			✓					✓		6-14-11	8:44 am	✓	✓	✓								
5	SP5 @ 1'	G	1			✓					✓		6-14-11	9:49 am	✓	✓	✓								
6	SP6 @ Surface	G	1			✓					✓		6-14-11	10:30 am	✓	✓	✓								

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Relinquished By: <i>Jeff Ornelas</i>	Date: 6-15-11	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 4:40 pm			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>[Signature]</i>	Date: 6-15-11	Received By: <i>Jodi Henson</i>	REMARKS:	
Time: 5 pm				
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <i>[Signature]</i>		
Sampler - UPS - Bus - Other:	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No			

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

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