

Bratcher, Mike, EMNRD

From: Cliff P. Brunson [cbrunson@bbccinternational.com]
Sent: Tuesday, May 03, 2011 3:53 PM
To: Bratcher, Mike, EMNRD
Cc: Bradley Blevins; Ken Swinney; Jennifer Gilkey
Subject: FW: Chesapeake Ponderosa 20 State #1
Attachments: Chesapeake Ponderosa 20 State #1.pdf; Final C-141.pdf

Mike,

Please find attached the final C-141 for the above referenced Chesapeake site. As you can see by the e-mail below, this was approved by you and the diagram and lab data are attached again for your files. If you have any questions, please let me know.

Thanks, Cliff

Cliff Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
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From: Cliff Brunson <cbrunson@bbccinternational.com>

Date: Tue, 29 Mar 2011 20:29:05 -0600

To: Mike Bratcher <Mike.Bratcher@state.nm.us>

Cc: Bradley Blevins <bradley.blevins@chk.com>, Ken Swinney <kswinney@bbccinternational.com>, Jennifer Gilkey <jgilkey@bbccinternational.com>

Subject: Chesapeake Ponderosa 20 State #1

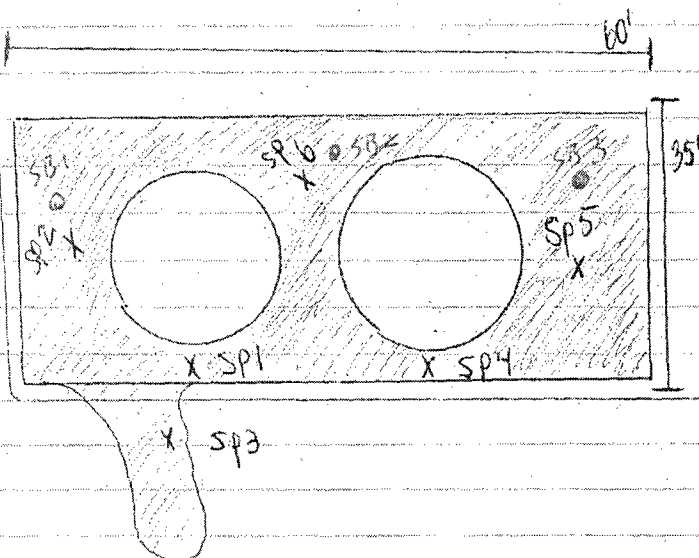
Mike,

This e-mail is to confirm our conversation of this morning concerning Chesapeake's release at the Ponderosa 20 State #1. Also, I have attached the site diagram and lab data we reviewed. As we discussed and agreed, Chesapeake will excavated the impacted soil inside the battery to a depth of 3 feet. Any excavation deeper than 3 feet would be a serious concern for safety and the integrity of the tanks. Per our discussion, the excavated area will be left open to allow for further aeration and degradation of the condensate. The site will then be backfilled to grade. All excavated soils will be disposed of at an OCD-approved disposal facility.

If you would please reply back via e-mail your concurrence with this plan, it would be greatly appreciated. If you have any questions, please do not hesitate to contact me.

CHESAPEAKE / PONDEROSA 20 site NO. 1

3/7/11



GPS

SP1	N. 32. 72977°	N. 104. 19442°
2	N. 32. 72976°	N. 104. 19445°
3	N. 32. 72986°	N. 104. 19437°
4	N. 32. 72978°	N. 104. 19437°
5	N. 32. 72987°	N. 104. 19432°
6	N. 32. 72975°	N. 104. 19446°



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

March 17, 2011

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: PONDEROSA 20 STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 03/10/11 11:45.

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 black ink, appearing to read "Celey D. Keene", written in a cursive style.

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: 03/10/2011
Reported: 03/17/2011
Project Name: PONDEROSA 20 STATE #1
Project Number: NONE GIVEN
Project Location: LOCO HILLS, NM

Sampling Date: 03/09/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 1 @ 3' (H100466-01)

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	03/14/2011	ND	1.98	99.0	2.00	2.94	
Toluene*	67.1	5.00	03/14/2011	ND	2.07	103	2.00	3.37	
Ethylbenzene*	31.6	5.00	03/14/2011	ND	2.14	107	2.00	3.32	
Total Xylenes*	307	15.0	03/14/2011	ND	6.39	106	6.00	3.78	

Surrogate: 4-Bromofluorobenzene (PIL) 80.6 % 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	16.0	16.0	03/11/2011	ND	416	104	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	9410	10.0	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	3890	10.0	03/12/2011	ND	198	99.0	200	1.03	

Surrogate: 1-Chlorooctane 83.8 % 70-130

Surrogate: 1-Chlorooctadecane 111 % 70-130

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 03/10/2011
Reported: 03/17/2011
Project Name: PONDEROSA 20 STATE #1
Project Number: NONE GIVEN
Project Location: LOCO HILLS, NM

Sampling Date: 03/09/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 1 @ 5' (H100466-02)

BTEX 8021B

mg/kg

Analyzed By: CMS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	03/14/2011	ND	1.98	99.0	2.00	2.94	
Toluene*	75.6	5.00	03/14/2011	ND	2.07	103	2.00	3.37	
Ethylbenzene*	34.1	5.00	03/14/2011	ND	2.14	107	2.00	3.32	
Total Xylenes*	350	15.0	03/14/2011	ND	6.39	106	6.00	3.78	

Surrogate: 4-Bromofluorobenzene (PIL) 80.6 % 70-130

TPH 8015M

mg/kg

Analyzed By: CK/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	8860	10.0	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	4580	10.0	03/12/2011	ND	198	99.0	200	1.03	

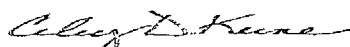
Surrogate: 1-Chlorooctane 97.9 % 70-130

Surrogate: 1-Chlorooctadecane 91.2 % 70-130

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 Cliff Brunson
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 Hobbs NM, 88241
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Received:	03/10/2011	Sampling Date:	03/09/2011
Reported:	03/17/2011	Sampling Type:	Soil
Project Name:	PONDEROSA 20 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SB 1 @ 10' (H100466-03)

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	03/11/2011	ND	1.98	99.0	2.00	2.94	
Toluene*	0.868	0.050	03/11/2011	ND	2.07	103	2.00	3.37	
Ethylbenzene*	0.474	0.050	03/11/2011	ND	2.14	107	2.00	3.32	
Total Xylenes*	4.68	0.150	03/11/2011	ND	6.39	106	6.00	3.78	

Surrogate: 4-Bromofluorobenzene (PIL) 93.6 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	66.7	10.0	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	334	10.0	03/12/2011	ND	198	99.0	200	1.03	

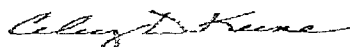
Surrogate: 1-Chlorooctane 130 % 70-130

Surrogate: 1-Chlorooctadecane 118 % 70-130

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* = Accredited Analyte

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Celestine D. Keene, Lab Director/Quality Manager



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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:	03/10/2011	Sampling Date:	03/09/2011
Reported:	03/17/2011	Sampling Type:	Soil
Project Name:	PONDEROSA 20 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SB 1 @ 15 (H100466-04)

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	03/11/2011	ND	1.98	99.0	2.00	2.94	
Toluene*	0.107	0.050	03/11/2011	ND	2.07	103	2.00	3.37	
Ethylbenzene*	0.068	0.050	03/11/2011	ND	2.14	107	2.00	3.32	
Total Xylenes*	0.664	0.150	03/11/2011	ND	6.39	106	6.00	3.78	

Surrogate: 4-Bromofluorobenzene (PIE) 99.1 % 70-130

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	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	49.8	10.0	03/12/2011	ND	198	99.0	200	1.03	

Surrogate: 1-Chlorooctane 108 % 70-130

Surrogate: 1-Chlorooctadecane 103 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/10/2011	Sampling Date:	03/09/2011
Reported:	03/17/2011	Sampling Type:	Soil
Project Name:	PONDEROSA 20 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SB 1 @ 20' (H100466-05)

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	03/11/2011	ND	1.98	99.0	2.00	2.94	
Toluene*	<0.050	0.050	03/11/2011	ND	2.07	103	2.00	3.37	
Ethylbenzene*	<0.050	0.050	03/11/2011	ND	2.14	107	2.00	3.32	
Total Xylenes*	0.335	0.150	03/11/2011	ND	6.39	106	6.00	3.78	

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	36.5	10.0	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	315	10.0	03/12/2011	ND	198	99.0	200	1.03	

Surrogate: 1-Chlorooctane 126 % 70-130

Surrogate: 1-Chlorooctadecane 115 % 70-130

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

Received: 03/10/2011
Reported: 03/17/2011
Project Name: PONDEROSA 20 STATE #1
Project Number: NONE GIVEN
Project Location: LOCO HILLS, NM

Sampling Date: 03/09/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 1 @ 25' (H100466-06)

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	03/11/2011	ND	1.98	99.0	2.00	2.94	
Toluene*	<0.050	0.050	03/11/2011	ND	2.07	103	2.00	3.37	
Ethylbenzene*	<0.050	0.050	03/11/2011	ND	2.14	107	2.00	3.32	
Total Xylenes*	<0.150	0.150	03/11/2011	ND	6.39	106	6.00	3.78	

Surrogate: 4-Bromofluorobenzene (PII) 97.3 % 70-130

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	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	66.2	10.0	03/12/2011	ND	198	99.0	200	1.03	

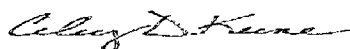
Surrogate: 1-Chlorooctane 115 % 70-130

Surrogate: 1-Chlorooctadecane 109 % 70-130

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Fax To: (505) 397-0397

Received:	03/10/2011	Sampling Date:	03/09/2011
Reported:	03/17/2011	Sampling Type:	Soil
Project Name:	PONDEROSA 20 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SB 1 @ 30' (H100466-07)

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	03/11/2011	ND	1.98	99.0	2.00	2.94	
Toluene*	<0.050	0.050	03/11/2011	ND	2.07	103	2.00	3.37	
Ethylbenzene*	<0.050	0.050	03/11/2011	ND	2.14	107	2.00	3.32	
Total Xylenes*	<0.150	0.150	03/11/2011	ND	6.39	106	6.00	3.78	

Surrogate: 4-Bromofluorobenzene (PIL) 99.2 % 70-130

TPH 8015M		mg/kg		Analyzed By: CKJ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	13.2	10.0	03/12/2011	ND	198	99.0	200	1.03	

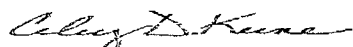
Surrogate: 1-Chlorooctane 118 % 70-130

Surrogate: 1-Chlorooctadecane 116 % 70-130

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P.O. Box 805
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Fax To: (505) 397-0397

Received: 03/10/2011
Reported: 03/17/2011
Project Name: PONDEROSA 20 STATE #1
Project Number: NONE GIVEN
Project Location: LOCO HILLS, NM

Sampling Date: 03/09/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 1 @ 35' (H100466-08)

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	03/11/2011	ND	1.98	99.0	2.00	2.94	
Toluene*	<0.050	0.050	03/11/2011	ND	2.07	103	2.00	3.37	
Ethylbenzene*	<0.050	0.050	03/11/2011	ND	2.14	107	2.00	3.32	
Total Xylenes*	<0.150	0.150	03/11/2011	ND	6.39	106	6.00	3.78	

Surrogate: 4-Bromofluorobenzene (PIL) 99.0 % 70-130

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	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	37.1	10.0	03/12/2011	ND	198	99.0	200	1.03	

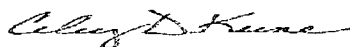
Surrogate: 1-Chlorooctane 127 % 70-130

Surrogate: 1-Chlorooctadecane 124 % 70-130

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Received: 03/10/2011
Reported: 03/17/2011
Project Name: PONDEROSA 20 STATE #1
Project Number: NONE GIVEN
Project Location: LOCO HILLS, NM

Sampling Date: 03/09/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 2 @ 3' (H100466-09)

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	03/11/2011	ND	1.98	99.0	2.00	2.94	
Toluene*	<0.050	0.050	03/11/2011	ND	2.07	103	2.00	3.37	
Ethylbenzene*	<0.050	0.050	03/11/2011	ND	2.14	107	2.00	3.32	
Total Xylenes*	<0.150	0.150	03/11/2011	ND	6.39	106	6.00	3.78	

Surrogate: 4-Bromofluorobenzene (PIL) 98.9 % 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	16.0	16.0	03/11/2011	ND	416	104	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	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	<10.0	10.0	03/12/2011	ND	198	99.0	200	1.03	

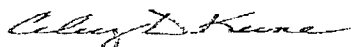
Surrogate: 1-Chlorooctane 113 % 70-130

Surrogate: 1-Chlorooctadecane 112 % 70-130

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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: 03/10/2011
Reported: 03/17/2011
Project Name: PONDEROSA 20 STATE #1
Project Number: NONE GIVEN
Project Location: LOCO HILLS, NM

Sampling Date: 03/09/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 2 @ 5' (H100466-10)

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	03/11/2011	ND	1.98	99.0	2.00	2.94	
Toluene*	<0.050	0.050	03/11/2011	ND	2.07	103	2.00	3.37	
Ethylbenzene*	<0.050	0.050	03/11/2011	ND	2.14	107	2.00	3.32	
Total Xylenes*	<0.150	0.150	03/11/2011	ND	6.39	106	6.00	3.78	

Surrogate: 4-Bromofluorobenzene (PIL) 98.7 % 70-130

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	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	<10.0	10.0	03/12/2011	ND	198	99.0	200	1.03	

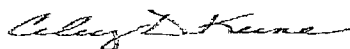
Surrogate: 1-Chlorooctane 130 % 70-130

Surrogate: 1-Chlorooctadecane 124 % 70-130

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

Received:	03/10/2011	Sampling Date:	03/09/2011
Reported:	03/17/2011	Sampling Type:	Soil
Project Name:	PONDEROSA 20 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SB 2 @ 10' (H100466-11)

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	03/11/2011	ND	1.98	99.0	2.00	2.94	
Toluene*	<0.050	0.050	03/11/2011	ND	2.07	103	2.00	3.37	
Ethylbenzene*	<0.050	0.050	03/11/2011	ND	2.14	107	2.00	3.32	
Total Xylenes*	<0.150	0.150	03/11/2011	ND	6.39	106	6.00	3.78	

Surrogate: 4-Bromofluorobenzene (PIL) 99.9 % 70-130

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	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	19.6	10.0	03/12/2011	ND	198	99.0	200	1.03	


Surrogate: 1-Chlorooctane 155 % 70-130

Surrogate: 1-Chlorooctadecane 149 % 70-130

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

Received:	03/10/2011	Sampling Date:	03/09/2011
Reported:	03/17/2011	Sampling Type:	Soil
Project Name:	PONDEROSA 20 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SB 2 @ 15' (H100466-12)

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	03/11/2011	ND	1.98	99.0	2.00	2.94	
Toluene*	<0.050	0.050	03/11/2011	ND	2.07	103	2.00	3.37	
Ethylbenzene*	<0.050	0.050	03/11/2011	ND	2.14	107	2.00	3.32	
Total Xylenes*	<0.150	0.150	03/11/2011	ND	6.39	106	6.00	3.78	

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

TPH 8015M		mg/kg		Analyzed By: CKJ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	28.9	10.0	03/12/2011	ND	198	99.0	200	1.03	

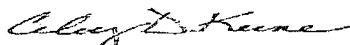
Surrogate: 1-Chlorooctane 118 % 70-130

Surrogate: 1-Chlorooctadecane 110 % 70-130

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Analytical Results For:

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

Received:	03/10/2011	Sampling Date:	03/09/2011
Reported:	03/17/2011	Sampling Type:	Soil
Project Name:	PONDEROSA 20 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SB 3 @ 3' (H100466-13)

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	03/15/2011	ND	2.03	102	2.00	10.0	
Toluene*	57.6	5.00	03/15/2011	ND	2.09	105	2.00	9.15	
Ethylbenzene*	38.0	5.00	03/15/2011	ND	2.13	107	2.00	7.35	
Total Xylenes*	211	15.0	03/15/2011	ND	6.31	105	6.00	7.00	

Surrogate: 4-Bromofluorobenzene (PIL) 88.9 % 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	<16.0	16.0	03/11/2011	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CKJ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	5460	10.0	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	2780	10.0	03/12/2011	ND	198	99.0	200	1.03	

Surrogate: 1-Chlorooctane 117 % 70-130

Surrogate: 1-Chlorooctadecane 111 % 70-130

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

Received: 03/10/2011
Reported: 03/17/2011
Project Name: PONDEROSA 20 STATE #1
Project Number: NONE GIVEN
Project Location: LOCO HILLS, NM

Sampling Date: 03/09/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 3 @ 5' (H100466-14)

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	03/15/2011	ND	2.03	102	2.00	10.0	
Toluene*	16.2	1.00	03/15/2011	ND	2.09	105	2.00	9.15	
Ethylbenzene*	11.5	1.00	03/15/2011	ND	2.13	107	2.00	7.35	
Total Xylenes*	110	3.00	03/15/2011	ND	6.31	105	6.00	7.00	

Surrogate: 4-Bromofluorobenzene (PIL) 82.1 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2970	10.0	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	2260	10.0	03/12/2011	ND	198	99.0	200	1.03	

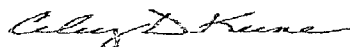
Surrogate: 1-Chlorooctane 124 % 70-130

Surrogate: 1-Chlorooctadecane 116 % 70-130

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

Received:	03/10/2011	Sampling Date:	03/09/2011
Reported:	03/17/2011	Sampling Type:	Soil
Project Name:	PONDEROSA 20 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SB 3 @ 10' (H100466-15)

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	03/15/2011	ND	2.03	102	2.00	10.0		
Toluene*	<0.050	0.050	03/15/2011	ND	2.09	105	2.00	9.15		
Ethylbenzene*	<0.050	0.050	03/15/2011	ND	2.13	107	2.00	7.35		
Total Xylenes*	<0.150	0.150	03/15/2011	ND	6.31	105	6.00	7.00		

Surrogate: 4-Bromofluorobenzene (PIL) 97.6 % 70-130

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	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	70.3	10.0	03/12/2011	ND	198	99.0	200	1.03	

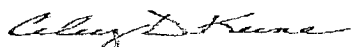
Surrogate: 1-Chlorooctane 113 % 70-130

Surrogate: 1-Chlorooctadecane 110 % 70-130

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

Received: 03/10/2011
Reported: 03/17/2011
Project Name: PONDEROSA 20 STATE #1
Project Number: NONE GIVEN
Project Location: LOCO HILLS, NM

Sampling Date: 03/09/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 3 @ 15' (H100466-16)

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	03/15/2011	ND	2.03	102	2.00	10.0	
Toluene*	<0.050	0.050	03/15/2011	ND	2.09	105	2.00	9.15	
Ethylbenzene*	<0.050	0.050	03/15/2011	ND	2.13	107	2.00	7.35	
Total Xylenes*	<0.150	0.150	03/15/2011	ND	6.31	105	6.00	7.00	

Surrogate: 4-Bromofluorobenzene (PHL) 98.7 % 70-130

TPH 8015M		mg/kg		Analyzed By: CKJ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	139	10.0	03/12/2011	ND	198	99.0	200	1.03	

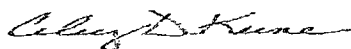
Surrogate: 1-Chlorooctane 142 % 70-130

Surrogate: 1-Chlorooctadecane 134 % 70-130

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

Received:	03/10/2011	Sampling Date:	03/09/2011
Reported:	03/17/2011	Sampling Type:	Soil
Project Name:	PONDEROSA 20 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SB 3 @ 20' (H100466-17)

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	03/15/2011	ND	2.03	102	2.00	10.0	
Toluene*	0.057	0.050	03/15/2011	ND	2.09	105	2.00	9.15	
Ethylbenzene*	<0.050	0.050	03/15/2011	ND	2.13	107	2.00	7.35	
Total Xylenes*	0.362	0.150	03/15/2011	ND	6.31	105	6.00	7.00	

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 70-130

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	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	49.8	10.0	03/12/2011	ND	198	99.0	200	1.03	

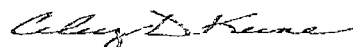
Surrogate: 1-Chlorooctane 120 % 70-130

Surrogate: 1-Chlorooctadecane 117 % 70-130

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

Received:	03/10/2011	Sampling Date:	03/09/2011
Reported:	03/17/2011	Sampling Type:	Soil
Project Name:	PONDEROSA 20 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SB 3 @ 25' (H100466-18)

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	03/15/2011	ND	2.03	102	2.00	10.0	
Toluene*	0.060	0.050	03/15/2011	ND	2.09	105	2.00	9.15	
Ethylbenzene*	<0.050	0.050	03/15/2011	ND	2.13	107	2.00	7.35	
Total Xylenes*	0.454	0.150	03/15/2011	ND	6.31	105	6.00	7.00	

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 70-130

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	03/12/2011	ND	202	101	200	2.43	
DRO >C10-C28	155	10.0	03/12/2011	ND	198	99.0	200	1.03	


Surrogate: 1-Chlorooctane 125 % 70-130

Surrogate: 1-Chlorooctadecane 118 % 70-130

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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:	03/10/2011	Sampling Date:	03/09/2011
Reported:	03/17/2011	Sampling Type:	Soil
Project Name:	PONDEROSA 20 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SB 3 2 30' (H100466-19)

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	03/15/2011	ND	2.03	102	2.00	10.0	
Toluene*	0.072	0.050	03/15/2011	ND	2.09	105	2.00	9.15	
Ethylbenzene*	<0.050	0.050	03/15/2011	ND	2.13	107	2.00	7.35	
Total Xylenes*	0.257	0.150	03/15/2011	ND	6.31	105	6.00	7.00	

Surrogate: 4-Bromofluorobenzene (PIL) 98.0 % 70-130

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	03/12/2011	ND	223	112	200	1.12	
DRO >C10-C28	25.3	10.0	03/12/2011	ND	223	111	200	0.539	

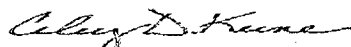
Surrogate: 1-Chlorooctane 122 % 70-130

Surrogate: 1-Chlorooctadecane 115 % 70-130

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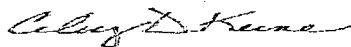
Notes and Definitions

Z-01	Surrogates above historical limits.
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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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; flex-direction: column; align-items: center;"> <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 style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</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 #: NA Project Owner: Chesapeake				City:																														
Project Name: Ponderosa 20 State #1				State: Zip:																														
Project Location: <u>Lower Hills, NM</u>				Phone #:																														
Sampler Name: Jeff Ornelas				Fax #:																														
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	GRAB OR (COMP. # CONTAINERS)	MATRIX					PRESERV.		SAMPLING																							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME																				
	H100466-11	SB2 @ 10'	1										3-9-10	2:49	✓	✓																		
	12	SB2 @ 15'	1										3-9-10	2:58	✓	✓																		
	13	SB3 @ 3'	1										3-9-10	3:03	✓	✓	✓																	
	14	SB3 @ 5'	1										3-9-10	3:09	✓	✓																		
	15	SB3 @ 10'	1										3-9-10	3:15	✓	✓																		
	16	SB3 @ 15'	1										3-9-10	3:18	✓	✓																		
	17	SB3 @ 20'	1										3-9-10	3:22	✓	✓																		
	18	SB3 @ 25'	1										3-9-10	3:30	✓	✓																		
	19	SB3 @ 30'	1										3-9-10	3:39	✓	✓																		

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Relinquished By:	Date: 3-9-11 Time: 5:00	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date: 3-10-11 Time: 2:58	Received By: Jodi Benson	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One)		Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
REMARKS:			

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

