

February 23, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: GREENWOOD 4 BTRY

Enclosed are the results of analyses for samples received by the laboratory on 02/17/17 16:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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 (V1, 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: (575) 397-0397

Received: 02/17/2017
Reported: 02/23/2017
Project Name: GREENWOOD 4 BTRY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/08/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP6 @ 2' (H700424-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2017	ND	2.12	106	2.00	3.29	
Toluene*	<0.050	0.050	02/21/2017	ND	1.98	98.9	2.00	2.98	
Ethylbenzene*	<0.050	0.050	02/21/2017	ND	1.96	98.2	2.00	2.35	
Total Xylenes*	<0.150	0.150	02/21/2017	ND	5.65	94.1	6.00	2.87	
Total BTEX	<0.300	0.300	02/21/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/20/2017	ND	195	97.6	200	3.76	
DRO >C10-C28	26.8	10.0	02/20/2017	ND	218	109	200	6.59	

Surrogate: 1-Chlorooctane 92.0 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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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: (575) 397-0397

Received: 02/17/2017
Reported: 02/23/2017
Project Name: GREENWOOD 4 BTRY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/08/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP6 @ 3' (H700424-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2017	ND	2.12	106	2.00	3.29	
Toluene*	<0.050	0.050	02/21/2017	ND	1.98	98.9	2.00	2.98	
Ethylbenzene*	<0.050	0.050	02/21/2017	ND	1.96	98.2	2.00	2.35	
Total Xylenes*	<0.150	0.150	02/21/2017	ND	5.65	94.1	6.00	2.87	
Total BTEX	<0.300	0.300	02/21/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/20/2017	ND	195	97.6	200	3.76	
DRO >C10-C28	<10.0	10.0	02/20/2017	ND	218	109	200	6.59	

Surrogate: 1-Chlorooctane 84.4 % 35-147

Surrogate: 1-Chlorooctadecane 93.7 % 28-171

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P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received: 02/17/2017
Reported: 02/23/2017
Project Name: GREENWOOD 4 BTRY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/08/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP6 @ 4' (H700424-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2017	ND	2.12	106	2.00	3.29	
Toluene*	<0.050	0.050	02/21/2017	ND	1.98	98.9	2.00	2.98	
Ethylbenzene*	<0.050	0.050	02/21/2017	ND	1.96	98.2	2.00	2.35	
Total Xylenes*	<0.150	0.150	02/21/2017	ND	5.65	94.1	6.00	2.87	
Total BTEX	<0.300	0.300	02/21/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/20/2017	ND	195	97.6	200	3.76	
DRO >C10-C28	446	10.0	02/20/2017	ND	218	109	200	6.59	

Surrogate: 1-Chlorooctane 85.5 % 35-147

Surrogate: 1-Chlorooctadecane 99.7 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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



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

Source: BBC International, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Greenwood 4 Hwy

Project Location:

Sampler Name: Price Brunson

FOR LAB USE ONLY

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Zip:

State: NM **Zip:** 88241

Fax #: 575-397-0397

Project Owner: Chevron

Matrix:

Preserv:

Sampling:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX
#100428	SP6021		1										2/8/17	1040	1	1
	SP6031		1										2/8/17	1100	1	1
	SP6041		1										2/8/17	1130	1	1

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Relinquished By: [Signature]

Date: 2/17/17

Time: 4:00pm

Received By:

Relinquished By:

Date: 2-17-17

Time: 4:48

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition:

☒ Cool ☒ Intact

☐ Yes ☐ No

CHECKED BY: [Signature]

REMARKS: