



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: cbrunson@bbcinternational.com

RECEIVED

By JKeyes at 7:26 am, Nov 23, 2015

COG – PATTERSON B-52 FED COM #2H

APPROVED

By JKeyes at 7:26 am, Nov 23, 2015

REMEDIATION PLAN

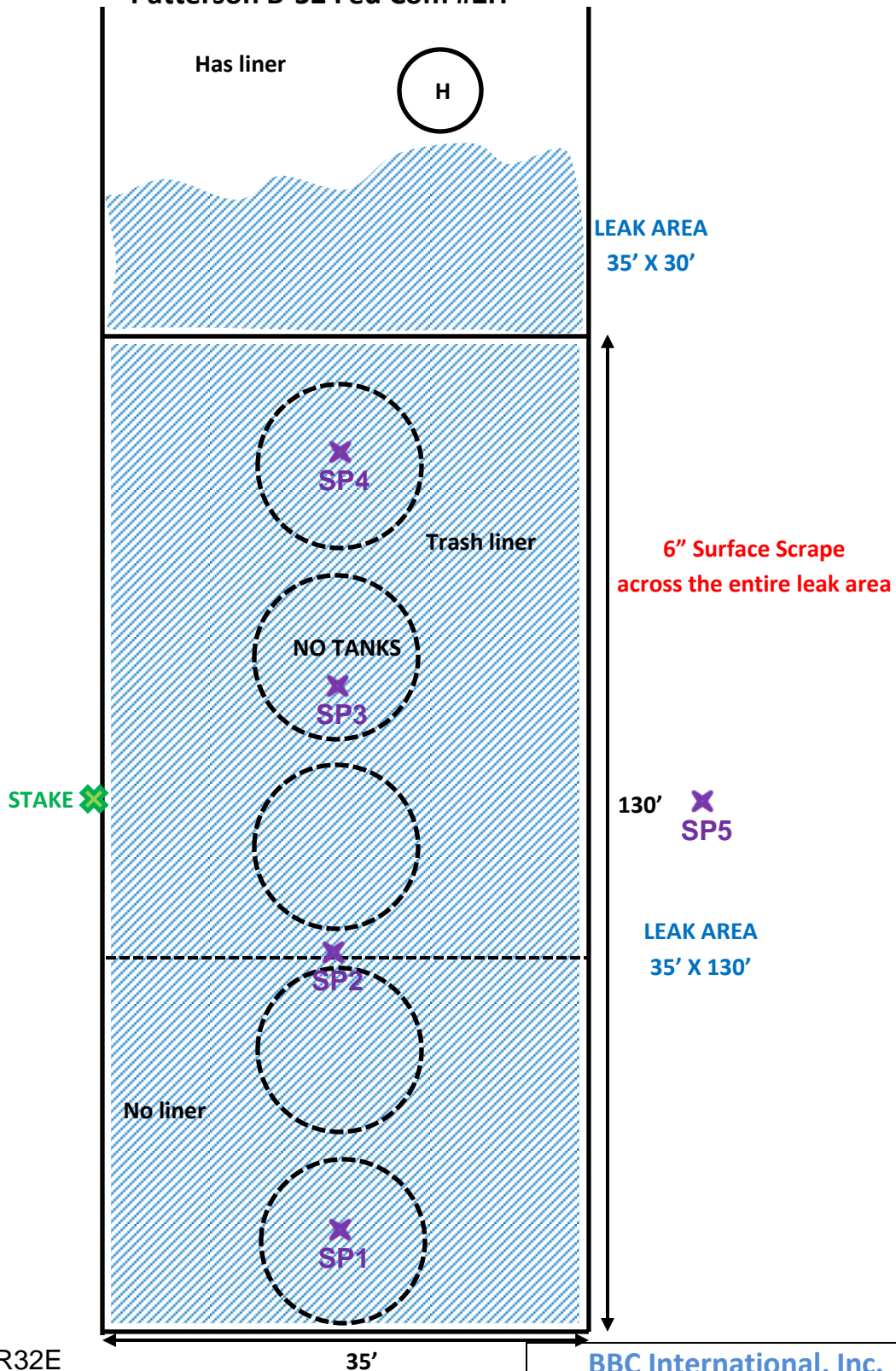
COG will excavate the spill area as depicted on the following site diagram. The entire spill area will be excavated to a depth of 6 inches as depicted. This battery was burned due to a lightning strike and the damaged tanks and liner has been removed. The site will be backfilled with clean soil and rebuilt.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.



Concho

Patterson B-52 Fed Com #2H



U/L A, Section 5, T19S, R32E

Lea County, NM

N 32.69570° W 103.78062°

API# 30-025-40773

BBC International, Inc.

Concho

Patterson B-52 Fed Com #2H

Date: 11/2/15

DRWG by: K. Purvis

NOT TO SCALE

File: Concho 2015



Groundwater Plot

Concho Patterson B-52 Fed Com #2H

County
Lea

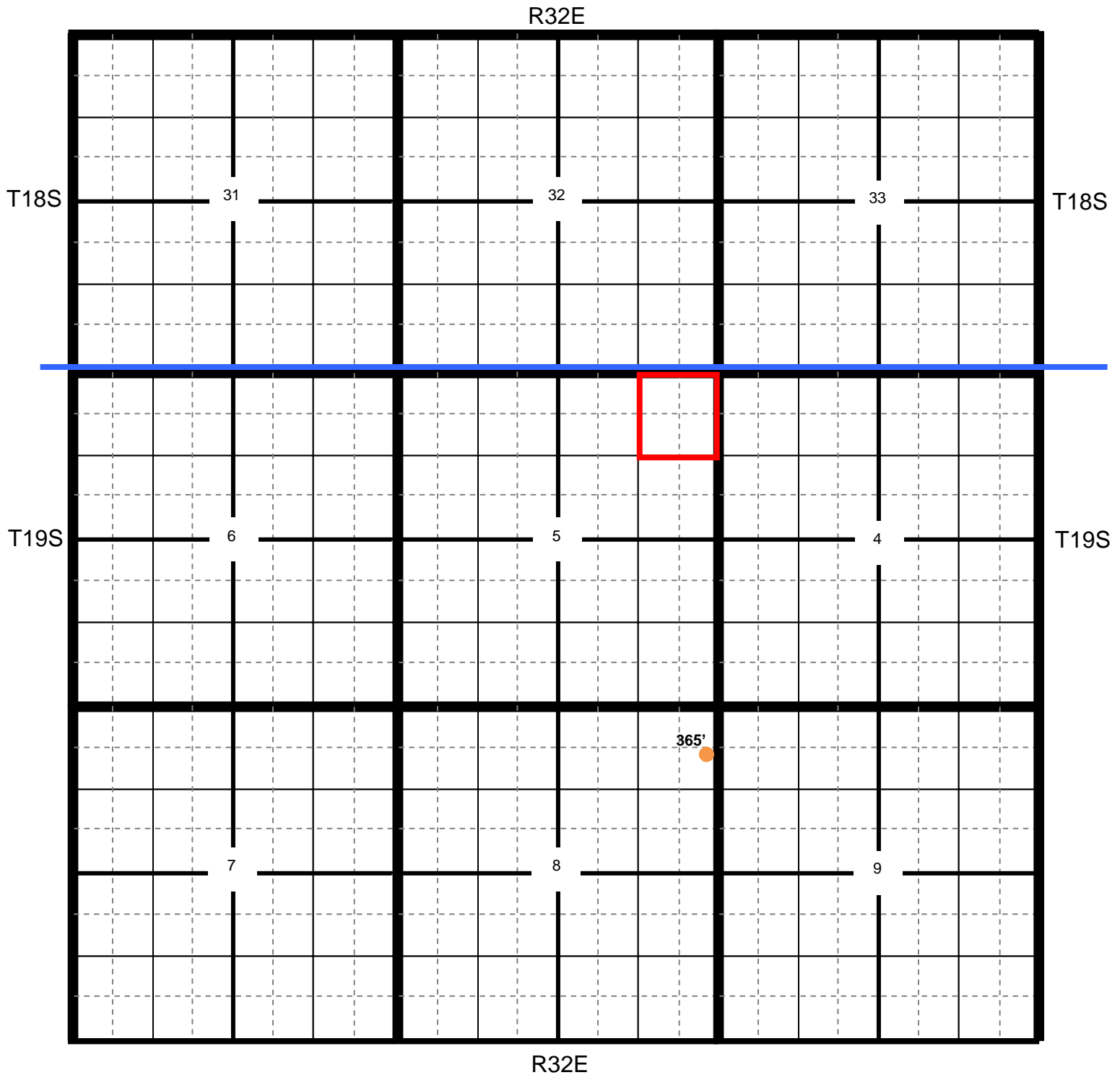
Unit Letter
A

Section
5

Township
19S

Range
32E

Trend Map 375'



Location

OCD

USGS

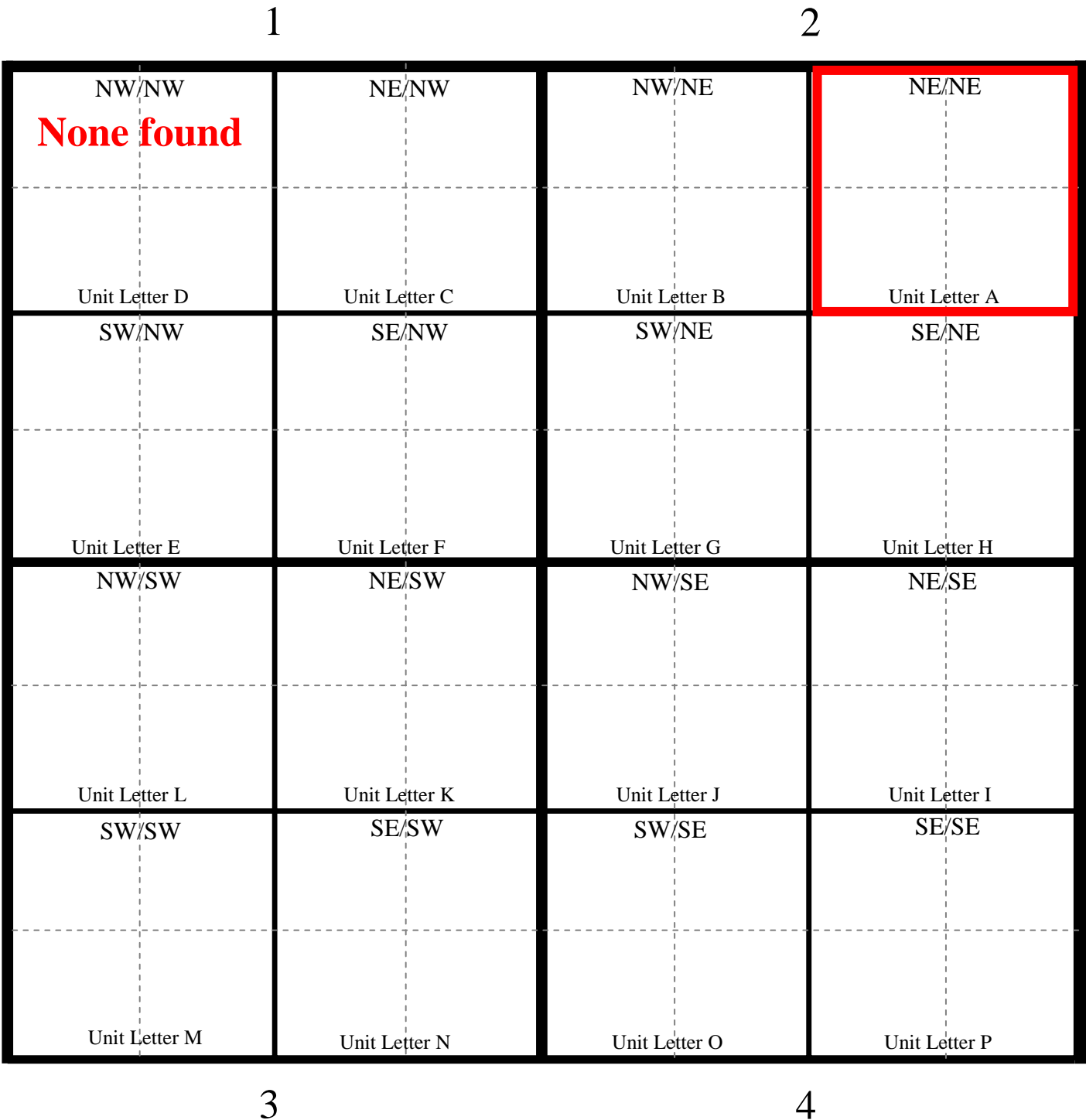
SEO

All Databases

Concho Patterson B-52 Fed Com #2H

County	Unit Letter	Section	Township	Range
Lea	A	5	19S	32E

Trend Map 375'



**Laboratory Analytical Results Summary
Patterson B-52 Fed Com #2H**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	11/5/15	11/5/15	11/5/15	11/5/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		208	368	176	128
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		116	<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	11/5/15	11/5/15	11/5/15	11/5/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		352	304	320	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	11/5/15	11/5/15
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		320	32
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	10.2

		Sample	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	11/5/15	11/5/15
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		176	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		10.8	<10.0

		Sample	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	11/5/15	11/5/15
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0



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

November 13, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: PATTERSON B-52 #2H

Enclosed are the results of analyses for samples received by the laboratory on 11/09/15 9:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing 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: (575) 397-0397

Received: 11/09/2015
Reported: 11/13/2015
Project Name: PATTERSON B-52 #2H
Project Number: NONE GIVEN
Project Location: 126

Sampling Date: 11/05/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 1 (H502958-01)

BTX 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	11/12/2015	ND	2.06	103	2.00	13.7	
Toluene*	<0.050	0.050	11/12/2015	ND	2.27	113	2.00	12.0	
Ethylbenzene*	<0.050	0.050	11/12/2015	ND	2.06	103	2.00	10.2	
Total Xylenes*	<0.150	0.150	11/12/2015	ND	6.46	108	6.00	10.1	
Total BTX	<0.300	0.300	11/12/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/11/2015	ND	384	96.0	400	8.00	

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	11/10/2015	ND	184	92.2	200	4.70	
DRO >C10-C28	116	10.0	11/10/2015	ND	176	87.9	200	7.82	

Surrogate: 1-Chlorooctane 79.2 % 35-147

Surrogate: 1-Chlorooctadecane 86.5 % 28-171

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: (575) 397-0397

Received: 11/09/2015
Reported: 11/13/2015
Project Name: PATTERSON B-52 #2H
Project Number: NONE GIVEN
Project Location: 126

Sampling Date: 11/05/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 2 (H502958-02)

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	11/12/2015	ND	2.06	103	2.00	13.7	
Toluene*	<0.050	0.050	11/12/2015	ND	2.27	113	2.00	12.0	
Ethylbenzene*	<0.050	0.050	11/12/2015	ND	2.06	103	2.00	10.2	
Total Xylenes*	<0.150	0.150	11/12/2015	ND	6.46	108	6.00	10.1	
Total BTEX	<0.300	0.300	11/12/2015	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/11/2015	ND	384	96.0	400	8.00	

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	11/10/2015	ND	184	92.2	200	4.70	
DRO >C10-C28	<10.0	10.0	11/10/2015	ND	176	87.9	200	7.82	

Surrogate: 1-Chlorooctane 92.5 % 35-147

Surrogate: 1-Chlorooctadecane 98.8 % 28-171

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BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received: 11/09/2015
Reported: 11/13/2015
Project Name: PATTERSON B-52 #2H
Project Number: NONE GIVEN
Project Location: 126

Sampling Date: 11/05/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 3 (H502958-03)

BTX 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	11/12/2015	ND	2.06	103	2.00	13.7	
Toluene*	<0.050	0.050	11/12/2015	ND	2.27	113	2.00	12.0	
Ethylbenzene*	<0.050	0.050	11/12/2015	ND	2.06	103	2.00	10.2	
Total Xylenes*	<0.150	0.150	11/12/2015	ND	6.46	108	6.00	10.1	
Total BTX	<0.300	0.300	11/12/2015	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/11/2015	ND	384	96.0	400	8.00	

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	11/10/2015	ND	184	92.2	200	4.70	
DRO >C10-C28	<10.0	10.0	11/10/2015	ND	176	87.9	200	7.82	

Surrogate: 1-Chlorooctane 86.4 % 35-147

Surrogate: 1-Chlorooctadecane 93.9 % 28-171

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

Received: 11/09/2015
Reported: 11/13/2015
Project Name: PATTERSON B-52 #2H
Project Number: NONE GIVEN
Project Location: 126

Sampling Date: 11/05/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 4 (H502958-04)

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	11/12/2015	ND	2.06	103	2.00	13.7	
Toluene*	<0.050	0.050	11/12/2015	ND	2.27	113	2.00	12.0	
Ethylbenzene*	<0.050	0.050	11/12/2015	ND	2.06	103	2.00	10.2	
Total Xylenes*	<0.150	0.150	11/12/2015	ND	6.46	108	6.00	10.1	
Total BTEx	<0.300	0.300	11/12/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/11/2015	ND	384	96.0	400	8.00	

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	11/10/2015	ND	184	92.2	200	4.70	
DRO >C10-C28	<10.0	10.0	11/10/2015	ND	176	87.9	200	7.82	

Surrogate: 1-Chlorooctane 78.4 % 35-147

Surrogate: 1-Chlorooctadecane 84.4 % 28-171

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Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

 Received: 11/09/2015
 Reported: 11/13/2015
 Project Name: PATTERSON B-52 #2H
 Project Number: NONE GIVEN
 Project Location: 126

 Sampling Date: 11/05/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP2 @ 1 (H502958-05)

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	11/12/2015	ND	2.06	103	2.00	13.7		
Toluene*	<0.050	0.050	11/12/2015	ND	2.27	113	2.00	12.0		
Ethylbenzene*	<0.050	0.050	11/12/2015	ND	2.06	103	2.00	10.2		
Total Xylenes*	<0.150	0.150	11/12/2015	ND	6.46	108	6.00	10.1		
Total BTEx	<0.300	0.300	11/12/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	11/11/2015	ND	384	96.0	400	8.00		

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	11/10/2015	ND	184	92.2	200	4.70	
DRO >C10-C28	<10.0	10.0	11/10/2015	ND	176	87.9	200	7.82	

Surrogate: 1-Chlorooctane 93.3 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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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: (575) 397-0397

Received: 11/09/2015
Reported: 11/13/2015
Project Name: PATTERSON B-52 #2H
Project Number: NONE GIVEN
Project Location: 126

Sampling Date: 11/05/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP2 @ 2 (H502958-06)

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	11/12/2015	ND	2.06	103	2.00	13.7	
Toluene*	<0.050	0.050	11/12/2015	ND	2.27	113	2.00	12.0	
Ethylbenzene*	<0.050	0.050	11/12/2015	ND	2.06	103	2.00	10.2	
Total Xylenes*	<0.150	0.150	11/12/2015	ND	6.46	108	6.00	10.1	
Total BTEx	<0.300	0.300	11/12/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/11/2015	ND	384	96.0	400	8.00	

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	11/10/2015	ND	184	92.2	200	4.70	
DRO >C10-C28	<10.0	10.0	11/10/2015	ND	176	87.9	200	7.82	

Surrogate: 1-Chlorooctane 88.5 % 35-147

Surrogate: 1-Chlorooctadecane 95.9 % 28-171

Cardinal Laboratories

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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: (575) 397-0397

Received: 11/09/2015
Reported: 11/13/2015
Project Name: PATTERSON B-52 #2H
Project Number: NONE GIVEN
Project Location: 126

Sampling Date: 11/05/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP2 @ 3 (H502958-07)

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	11/12/2015	ND	2.06	103	2.00	13.7	
Toluene*	<0.050	0.050	11/12/2015	ND	2.27	113	2.00	12.0	
Ethylbenzene*	<0.050	0.050	11/12/2015	ND	2.06	103	2.00	10.2	
Total Xylenes*	<0.150	0.150	11/12/2015	ND	6.46	108	6.00	10.1	
Total BTEX	<0.300	0.300	11/12/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/11/2015	ND	384	96.0	400	8.00	

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	11/11/2015	ND	195	97.7	200	2.61	
DRO >C10-C28	<10.0	10.0	11/11/2015	ND	191	95.7	200	5.87	

Surrogate: 1-Chlorooctane 88.4 % 35-147

Surrogate: 1-Chlorooctadecane 94.5 % 28-171

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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: (575) 397-0397

Received: 11/09/2015
Reported: 11/13/2015
Project Name: PATTERSON B-52 #2H
Project Number: NONE GIVEN
Project Location: 126

Sampling Date: 11/05/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP2 @ 4 (H502958-08)

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	11/12/2015	ND	2.06	103	2.00	13.7	
Toluene*	<0.050	0.050	11/12/2015	ND	2.27	113	2.00	12.0	
Ethylbenzene*	<0.050	0.050	11/12/2015	ND	2.06	103	2.00	10.2	
Total Xylenes*	<0.150	0.150	11/12/2015	ND	6.46	108	6.00	10.1	
Total BTEx	<0.300	0.300	11/12/2015	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/11/2015	ND	384	96.0	400	8.00		

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	11/11/2015	ND	195	97.7	200	2.61	
DRO >C10-C28	<10.0	10.0	11/11/2015	ND	191	95.7	200	5.87	

Surrogate: 1-Chlorooctane 86.7 % 35-147

Surrogate: 1-Chlorooctadecane 90.6 % 28-171

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Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received: 11/09/2015
Reported: 11/13/2015
Project Name: PATTERSON B-52 #2H
Project Number: NONE GIVEN
Project Location: 126

Sampling Date: 11/05/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP3 @ 1 (H502958-09)

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	11/12/2015	ND	2.06	103	2.00	13.7		
Toluene*	<0.050	0.050	11/12/2015	ND	2.27	113	2.00	12.0		
Ethylbenzene*	<0.050	0.050	11/12/2015	ND	2.06	103	2.00	10.2		
Total Xylenes*	<0.150	0.150	11/12/2015	ND	6.46	108	6.00	10.1		
Total BTEx	<0.300	0.300	11/12/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/11/2015	ND	384	96.0	400	8.00		

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	11/11/2015	ND	195	97.7	200	2.61	
DRO >C10-C28	<10.0	10.0	11/11/2015	ND	191	95.7	200	5.87	

Surrogate: 1-Chlorooctane 80.6 % 35-147

Surrogate: 1-Chlorooctadecane 83.0 % 28-171

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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: (575) 397-0397

Received: 11/09/2015
Reported: 11/13/2015
Project Name: PATTERSON B-52 #2H
Project Number: NONE GIVEN
Project Location: 126

Sampling Date: 11/05/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP3 @ 2 (H502958-10)

BTX 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	11/12/2015	ND	2.06	103	2.00	13.7	
Toluene*	<0.050	0.050	11/12/2015	ND	2.27	113	2.00	12.0	
Ethylbenzene*	<0.050	0.050	11/12/2015	ND	2.06	103	2.00	10.2	
Total Xylenes*	<0.150	0.150	11/12/2015	ND	6.46	108	6.00	10.1	
Total BTX	<0.300	0.300	11/12/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/11/2015	ND	400	100	400	7.69	

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	11/11/2015	ND	195	97.7	200	2.61	
DRO >C10-C28	10.2	10.0	11/11/2015	ND	191	95.7	200	5.87	

Surrogate: 1-Chlorooctane 89.6 % 35-147

Surrogate: 1-Chlorooctadecane 95.4 % 28-171

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Cliff Brunson
P.O. Box 805
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Fax To: (575) 397-0397

Received: 11/09/2015
Reported: 11/13/2015
Project Name: PATTERSON B-52 #2H
Project Number: NONE GIVEN
Project Location: 126

Sampling Date: 11/05/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP4 @ 1 (H502958-11)

BTX 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	11/12/2015	ND	2.06	103	2.00	13.7	
Toluene*	<0.050	0.050	11/12/2015	ND	2.27	113	2.00	12.0	
Ethylbenzene*	<0.050	0.050	11/12/2015	ND	2.06	103	2.00	10.2	
Total Xylenes*	<0.150	0.150	11/12/2015	ND	6.46	108	6.00	10.1	
Total BTX	<0.300	0.300	11/12/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/11/2015	ND	400	100	400	7.69	

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	11/11/2015	ND	195	97.7	200	2.61	
DRO >C10-C28	10.8	10.0	11/11/2015	ND	191	95.7	200	5.87	

Surrogate: 1-Chlorooctane 88.6 % 35-147

Surrogate: 1-Chlorooctadecane 92.8 % 28-171

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Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received: 11/09/2015
Reported: 11/13/2015
Project Name: PATTERSON B-52 #2H
Project Number: NONE GIVEN
Project Location: 126

Sampling Date: 11/05/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP4 @ 2 (H502958-12)

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	11/12/2015	ND	2.06	103	2.00	13.7	
Toluene*	<0.050	0.050	11/12/2015	ND	2.27	113	2.00	12.0	
Ethylbenzene*	<0.050	0.050	11/12/2015	ND	2.06	103	2.00	10.2	
Total Xylenes*	<0.150	0.150	11/12/2015	ND	6.46	108	6.00	10.1	
Total BTEX	<0.300	0.300	11/12/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/11/2015	ND	400	100	400	7.69		

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	11/11/2015	ND	195	97.7	200	2.61	
DRO >C10-C28	<10.0	10.0	11/11/2015	ND	191	95.7	200	5.87	

Surrogate: 1-Chlorooctane 91.6 % 35-147

Surrogate: 1-Chlorooctadecane 92.6 % 28-171

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Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received: 11/09/2015
Reported: 11/13/2015
Project Name: PATTERSON B-52 #2H
Project Number: NONE GIVEN
Project Location: 126

Sampling Date: 11/05/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP5 @ 1 (H502958-13)

BTX 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	11/12/2015	ND	2.06	103	2.00	13.7	
Toluene*	<0.050	0.050	11/12/2015	ND	2.27	113	2.00	12.0	
Ethylbenzene*	<0.050	0.050	11/12/2015	ND	2.06	103	2.00	10.2	
Total Xylenes*	<0.150	0.150	11/12/2015	ND	6.46	108	6.00	10.1	
Total BTX	<0.300	0.300	11/12/2015	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/11/2015	ND	400	100	400	7.69		

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	11/11/2015	ND	195	97.7	200	2.61	
DRO >C10-C28	<10.0	10.0	11/11/2015	ND	191	95.7	200	5.87	

Surrogate: 1-Chlorooctane 85.9 % 35-147

Surrogate: 1-Chlorooctadecane 92.3 % 28-171

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Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received: 11/09/2015
Reported: 11/13/2015
Project Name: PATTERSON B-52 #2H
Project Number: NONE GIVEN
Project Location: 126

Sampling Date: 11/05/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP5 @ 2 (H502958-14)

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	11/12/2015	ND	2.06	103	2.00	13.7	
Toluene*	<0.050	0.050	11/12/2015	ND	2.27	113	2.00	12.0	
Ethylbenzene*	<0.050	0.050	11/12/2015	ND	2.06	103	2.00	10.2	
Total Xylenes*	<0.150	0.150	11/12/2015	ND	6.46	108	6.00	10.1	
Total BTEx	<0.300	0.300	11/12/2015	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/11/2015	ND	400	100	400	7.69		

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	11/11/2015	ND	195	97.7	200	2.61	
DRO >C10-C28	<10.0	10.0	11/11/2015	ND	191	95.7	200	5.87	

Surrogate: 1-Chlorooctane 83.7 % 35-147

Surrogate: 1-Chlorooctadecane 89.8 % 28-171

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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

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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

1/2

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sample Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H502958

1
2
3
4
5
6
7
8
9
10

SP101
SP102
SP103
SP104
SP201
SP202
SP203
SP204
SP301
SP302

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

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TIME

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TIME

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TIME

DATE

TIME

DATE

TIME

DATE

TIME

BTEX
TPH
Cl-

BILL TO

ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

Relinquished By:

Date:

Received By:

Phone Result:

Yes

No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Relinquished By:

Date:

Received By:

Phone Result:

Yes

No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition
Cool ☒ Intact ☐
Yes ☒ No ☐

CHECKED BY:
(Initials)

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

#54



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:																									
Project Manager: Cliff Brunson		Company:																									
Address: P.O. Box 805		Attn:																									
City: Hobbs		Address:																									
State: NM Zip: 88241		City:																									
Phone #: 575-397-6388 Fax #: 575-397-0397		State: Zip:																									
Project #:		Project Owner: Concho																									
Project Name: Patterson B-52 #24		Phone #:																									
Project Location: 126		Fax #:																									
Sample Name: West One 125		PRESERV																									
FOR LAB USE ONLY		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	BTEX TPH CI-												
HSD1958	SP406	C1	1			X					X		1-5	2:15	X												
11	SP406	C1	1			X					X			2:33	X												
12	SP501	C1	1			X					X			3:20	X												
13	SP501	C1	1			X					X			3:30	X												
14	SP502	C1	1			X					X																
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.																REMARKS:											
Relinquished By: [Signature]		Date: 11-9-15		Received By: [Signature]		Date: 11-9-15		Time: 8:30		Time: 9:08		Sample Condition		Cool Intact		CHECKED BY: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: Delivered By: (Circle One) Sampler - UPS - Bus - Other: 240									

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

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