Bratcher, Mike, EMNRD

From: Cliff P. Brunson [cbrunson@bbcinternational.com]

Sent: Wednesday, January 12, 2011 3:11 PM

Bratcher, Mike, EMNRD To:

Kelton Beaird; Ken Swinney; Jennifer Gilkey Cc:

Oxy MidCon-Lakewood "15" State #1 Subject:

Attachments: Oxy Lakewood 15 State #1.pdf

Mike,

This e-mail is to confirm our discussion yesterday, Jan. 11, 2010, concerning the remediation plan for the Oxy Lakewood "15" State #1 release. I have attached the information that we reviewed together.

As you recall, Oxy proposed a two foot excavation inside the battery firewall across the spill site and the areas just outside the firewall. 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

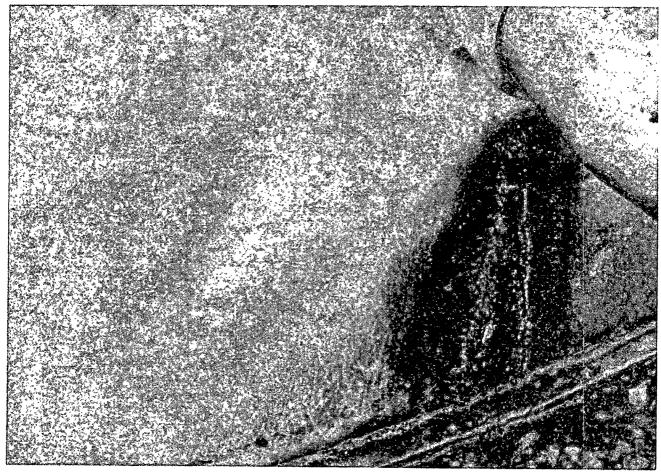
Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland Blvd. Hobbs, NM 88240 USA Phone: (575) 397-6388

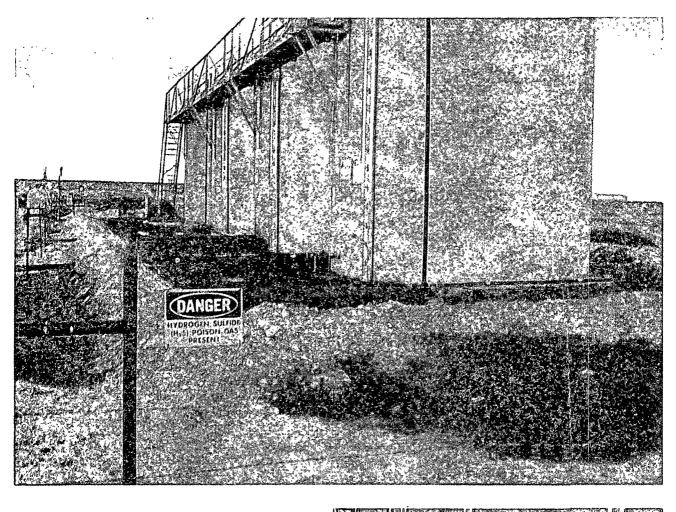
Fax: (575) 397-0397 E-mail: cbrunson@bbcinternational.com

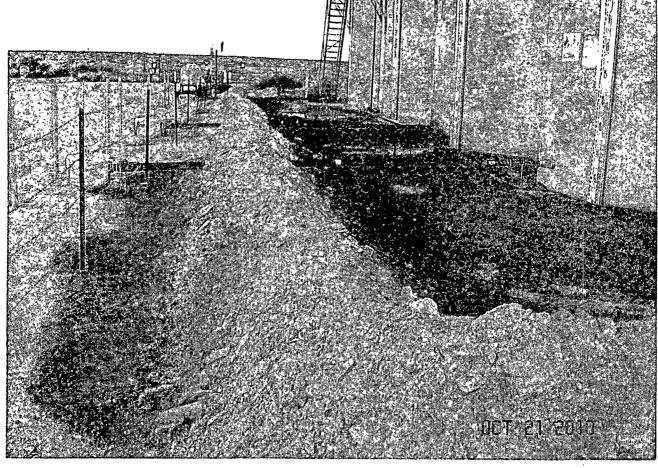
Web: www.bbcinternational.com

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VSDZ	@ Saylon	Q 200	Strong,	OARK	12-20	11/	
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November 21, 2010

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LAKEWOOD "15" ST #1

Enclosed are the results of analyses for samples received by the laboratory on 11/12/10 16:40.

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 Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated 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



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

Fax To: (505) 397-0397

Received:

11/12/2010

Sampling Date:

11/04/2010

Reported:

11/21/2010

Sampling Type:

Soil

Project Name:

LAKEWOOD "15" ST #1

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

CARLSBAD, NM

Sample ID: S P 1 @ SURFACE (H021290-01)

BTEX 8021B	mg/	kg	Analyze	d By: cms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/17/2010	ND	1.82	90.8	2.00	3.41	
Toluene*	19.8	0.500	11/17/2010	ND	1.76	88.0	2.00	2.70	
Ethylbenzene*	7.99	0.500	11/17/2010	ND	1.72	86.0	6.0 2.00		
Total Xylenes*	49.7 1.50		11/17/2010	ND	5.34	88.9	6.00	4.09	
Surrogate: 4-Bromofluorobenzene (PIL	60.5	% 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	256	16.0	11/15/2010	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: AB					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2760	50.0	11/16/2010	ND	154	76.9	200	3.79	
DRO >C10-C28	30500	50.0	11/16/2010	ND	152	76.1	200	0.995	
Surrogate: 1-Chlorooctane	160 9	6 70-130		*** - *********					***************************************
Surrogate: 1-Chlorooctadecane	133 %	6 70-130							

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(505) 397-0397 Fax To:

Received:

11/12/2010

Reported:

11/21/2010

Project Name:

LAKEWOOD "15" ST #1

Project Number: Project Location:

CARLSBAD, NM

NONE GIVEN

Sampling Date:

11/04/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: S P 1 @ 1' (H021290-02)

BTEX 8021B	mg/	kg	Analyze	d By: cms					· · · · · · · · · · · · · · · · · · ·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/17/2010	ND	1.82	90.8	2.00	3,41	
Toluene*	0.741	0.050	11/17/2010	ND	1.76	88.0	2.00	2.70	
Ethylbenzene*	0.086	0.050	11/17/2010	ND	1.72	86.0	2.00	3.59	
Total Xylenes*	0.471	0.150	11/17/2010	ND	5.34	88.9	6.00	4.09	
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 80-120							
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	752 16.0		11/15/2010	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	67.3	10.0	11/16/2010	ND	154	76.9	200	3.79	
DRO >C10-C28	505	10.0	11/16/2010	ND	152	76.1	200	0.995	
Surrogate. 1-Chlorooctane	101 :	% 70-130		**************************************					
Surrogate: 1-Chlorooctadecane	100 5	% 70-130							

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Fax To: (505) 397-0397

Received:

11/12/2010

Reported:

11/21/2010

Project Name:

LAKEWOOD "15" ST #1

Project Number:

NONE GIVEN

Project Location:

CARLSBAD, NM

Sampling Date:

11/04/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

OUI & Intact

Celey D. Keene

Sample ID: S P 1 @ 3' (H021290-03)

BTEX 8021B	mg/	kg	Analyze	d By: cms		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/17/2010	ND	1.82	90.8	2.00	3.41	
Toluene*	2.07	0.100	11/17/2010	ND	1.76	88.0	2.00	2.70	
Ethylbenzene*	0.648	0.100	11/17/2010	ND	1.72	86.0	2.00	3.59	
Total Xylenes*	3.75	0.300	11/17/2010	ND	5.34	88.9	6.00	4.09	
Surrogate 4-Bromofluorobenzene (PIL	103 9	80-120	,						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0 16.0		11/15/2010	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/16/2010	ND	154	76.9	200	3.79	
DRO >C10-C28	<10.0 10.0		11/16/2010	ND	152	76.1	200	0.995	
Surrogate: 1-Chlorooctane	89.9	% 70-130)						
Surrogate 1-Chlorooctadecane	93 5	% 70-130	•						

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Celey & Keine



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

Fax To: (505) 397-0397

Received:

11/12/2010

Reported:

11/21/2010

Project Name:

,LAKEWOOD "15" ST #1

Project Number:

NONE GIVEN

Project Location:

CARLSBAD, NM

Sampling Date:

11/04/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: S P 2 @ SURFACE (H021290-04)

BTEX 8021B	mg/	kg	Analyze	d By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	` BS	% Recovery	True Value QC	RPD	Qualifier
Вепzene*	<0.050	0.050	11/17/2010	ND	1.82	90.8	2.00	3.41	
Toluene*	1.09	0.050	11/17/2010	ND	1.76	88.0	2.00	2.70	
Ethylbenzene*	0.652	0.050	11/17/2010	ND	1.72	86.0	2.00	3.59	
Total Xylenes*	3.95	0.150	11/17/2010	ND	5.34	88.9	6.00	4.09	
Surrogate: 4-Bromofluorobenzene (PIL	85.4	% 80-120	ı						AP-14 - 18.00
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM	· ··· · · · · · · · · · · · · · · · ·				
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816 16.0		11/15/2010 ND		416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: AB					·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD ,	Qualifler
GRO C6-C10	188	10.0	11/16/2010	ND	154	76.9	200	3.79	
DRO >C10-C28	964	10.0	11/16/2010	ND	152	76.1	200	0.995	
Surrogate 1-Chlorooctane	101 :	% 70-130							·
Surrogate: I-Chlorooctadecane	105	% 70-130	,		•				

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Received: Reported:

WTEV 0031 B

11/12/2010

11/21/2010

LAKEWOOD "15" ST #1

Project Name: Project Number:

NONE GIVEN

__ (1--

Project Location:

CARLSBAD, NM

Sampling Date:

11/04/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: S P 2 @ 1' (H021290-05)

BTEX 8021B	mg/	kg	Analyze	d By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B\$	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2010	ND	1.82	90.8	2.00	3.41	
Toluene*	0.521	0.050	11/17/2010	ND	1.76	0,88	2.00	2.70	
Ethylbenzene*	0.067	0.050	11/17/2010	ND	1.72	86.0	2,00	3.5 9	
Total Xylenes*	0.385	0.150	11/17/2010	ND	5.34	88.9	6.00	4.09	
Surrogate: 4-Bromofluorobenzene (PIL	110% 80-120								
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	11/15/2010	ND	416	104	400	3.92	
ТРН 8015M	mg/	kg	Analyzo	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	192	10.0	11/16/2010	ND	154	76.9	200	3.79	
DRO >C10-C28	1000	10.0	11/16/2010	ND	152	76.1	200	0.995	
Surrogate: 1-Chlorooctane	107 9	% 70-130					, , <u>, , , , , , , , , , , , , , , , , </u>		
Surrogate: 1-Chlorooctadecane	112 %	% 70-130							

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Fax To: (505) 397-0397

Received:

11/12/2010

Reported:

11/21/2010

Project Name: Project Number: LAKEWOOD "15" ST #1

Project Location:

NONE GIVEN CARLSBAD, NM Sampling Date:

11/04/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: S P 2 @ 3' (H021290-06)

BTEX 8021B	mg/	kg	Analyze	d By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.250	0.250	11/17/2010	ND	1,82	90.8	2.00	3.41	
Toluene*	0.381	0.250	11/17/2010	ND	1.76	88.0	2.00	2.70	
Ethylbenzene*	0.250	0.250	11/17/2010	ND	1.72	86.0	2.00	3.59	
Total Xylenes*	<0.750	0.750	11/17/2010 ND		5.34	88.9	6.00	4.09	
Surrogate: 4-Bromofluorobenzene (PIL	110%	6 80-120							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM		 			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/15/2010	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/16/2010	ND	154	76.9	200	3.79	
DRO >C10-C28	<10.0	10.0	11/16/2010	ND	152	76.1	200	0.995	
Surrogate 1-Chlorooctane	95.3 9	6 70-130					***************************************		
Surrogate: 1-Chlorooctadecane	95.3 9	6 70-130							

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Fax To: (505) 397-0397

Received:

11/12/2010

Sampling Date:

11/04/2010

Reported:

11/21/2010

Sampling Type:

Soil

Project Name:

LAKEWOOD "15" ST #1

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

CARLSBAD, NM

Sample ID: S P 3 @ SURFACE (H021290-07)

BTEX 8021B	mg/	'kg	Analyze	d By: cms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1,00	1.00	11/17/2010	ND	1.82	90.8	2.00	3.41	
Toluene*	39,4	1.00	11/17/2010	ND	1.76	88.0	2.00	2.70	
Ethylbenzene*	15.4	1.00	11/17/2010	ND	1.72	86.0	2.00	3.59	
Total Xylenes*	90.2	3.00	11/17/2010	ND	5.34	88.9	6.00	4.09	
Surrogate. 4-Bromofluorobenzene (PIL	66.2	% 80-120							**************************************
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/15/2010	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: AB					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B\$	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2970	50.0	11/16/2010	ND	154	76.9	200	3.79	
DRO >C10-C28	26600	50.0	11/16/2010	ND	152	76.1	200	0.995	
Surrogate: 1-Chlorooctane	162 9	% 70-130				***************************************	· · · · · · · · · · · · · · · · · · ·		
Surrogate: 1-Chlorooctadecane	121 9	% 70-130							

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fax To:

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Received: Reported: 11/12/2010

11/21/2010

Project Name:

LAKEWOOD "15" ST #1

Project Number: Project Location:

CARLSBAD, NM

NONE GIVEN

Sampling Type: Sampling Condition:

Sampling Date:

11/04/2010

Soil

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: S P 3 @ 1' (H021290-08)

BTEX 8021B	mg/	kg	Analyze	đ By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/17/2010	ND	1.82	90.8	2.00	3.41	
Toluene*	1,22	0.050	11/17/2010	ND	1.76	88.0	2.00	2.70	
Ethylbenzene*	0.363	0.050	11/17/2010	ND	1.72	86.0	2.00	3.59	
Total Xylenes*	2.04	0.150	11/17/2010	ND	5.34	88.9	6.00	4.09	
Swrogate: 4-Bromofluorobenzene (PIL	100 % 80-120								
Chloride, 5M4500Cl-B	mg/kg		Analyzed By: HM				····		
Analyte .	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784 16.0		11/15/2010 ND		416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: AB		· .			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	76.5	10.0	11/16/2010	ND	154	76.9	200	3.79	
DRO >C10-C28	492	10.0	11/16/2010	ND	152	76.1	200	0.995	
Surrogate: 1-Chlorooctane	96.75					-1-77	-	··········	
Surrogate. 1-Chlorooctadecane	99.4	% 70-130							

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

Fax To: (505) 397-0397

Received:

11/12/2010

Reported:

11/21/2010

Project Name:

LAKEWOOD "15" ST #1

Project Number:

NONE GIVEN

Project Location:

CARLSBAD, NM

Sampling Date:

11/04/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: S P 3 @ 3' (H021290-09)

BTEX 8021B	mg/	'kg	Апајуzе	d By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.250	0.250	11/17/2010	ND	1.82	90.8	2.00	3.41	
Toluene*	0.562	0.250	11/17/2010	ND	1.76	88.0	2.00	2.70	
Ethylbenzene*	<0.250	0.250	11/17/2010	ND	1.72	86.0	2.00	3.59	
Total Xylenes*	<0.750	0.750	11/17/2010	ND	5.34	88.9	6.00	4.09	
Surrogate: 4-Bromofluorobenzene (PIL	107	% 80-120							
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: HM						
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112 16.0		11/15/2010	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/16/2010	ND	154	76.9	200	3.79	
DRO >C10-C28	<10.0		11/16/2010	ND	152	76.1	200	0.995	
Surrogate: 1-Chlorooctane	92.6	% 70-130			~~	.,,			
Surrogate: 1-Chlorooctadecane	93 3	% 70-130							

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Celey & Kune



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-8 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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- ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	BBC International,		BI	LL TO				ΑI	VALYS	SIS RE	QUE	ST		 		
Project Manage	r: Cliff Brunson				P.O. #:		T		1	7		T	T			
Address: P.O					Company:	***************************************	1		1							
City: Hobbs		State: NM 2	ip: {	B8241	Attn:	 ,] .				-					1
Phone #: 575-	227 2222	ax#: 575-3			Address:	Maria										
Project #:		roject Owner:	A.	10	City:	WAZ.	1				ļ					
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Sampler Name:	TOPIC PTO GRAPHINE					Fax #:					-					
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H21790			G)RAB	GROUND WASTEW SOIL OIL	E 15	DATE : TIME			~							
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476 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: Project #: Project Owner: City: Project Name: State: Zip: Project Location: Phone #: Sampler Name: ennina Fax #: SAMPLING FOR LAB USE ONLY MATRIX PRESERV Lab I.D. Sample I.D. 2002 HZ12919 DATE TIME analyses. All claims including those for negligence and any other cause whetsoever shall be deemed waived unless made in writing and received by Certinal within 30 days after complation of the applicable service. In no event shall Cardnet be flable for incklental or consequental damages, including without limitation, business interruptibes, loss of use, or loss of profits incurred by client, its subskilertes, ffiliates or successors ansing out of or related to the performance of services haraunder by Cardinal, regardless of whether such Alaim is based upon any of the above stated reasons or otherwise Phone Result: ☐ Yes □ No Add'l Phone #: Fax Result: ☐ Yes □ No Add'l Fax #: Time: 4540 REMARKS: Refinguished By: Date: Received By: Time:

CHECKED BY:

(Initials)

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact
Ves Ves
No No

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