

Bratcher, Mike, EMNRD

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Wednesday, January 01, 2014 1:28 PM
To: Bratcher, Mike, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY-Lost Tank 35 State #4 CTB-Remediation Plan
Attachments: Remediation Packet- Lost Tank 35-4.pdf

Mike,

This e-mail is to confirm our conversation on December 18, 2013 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate the entire spill area to a depth of 4 feet with a liner put in place. The liner will be under the line that ruptured. The area will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated.

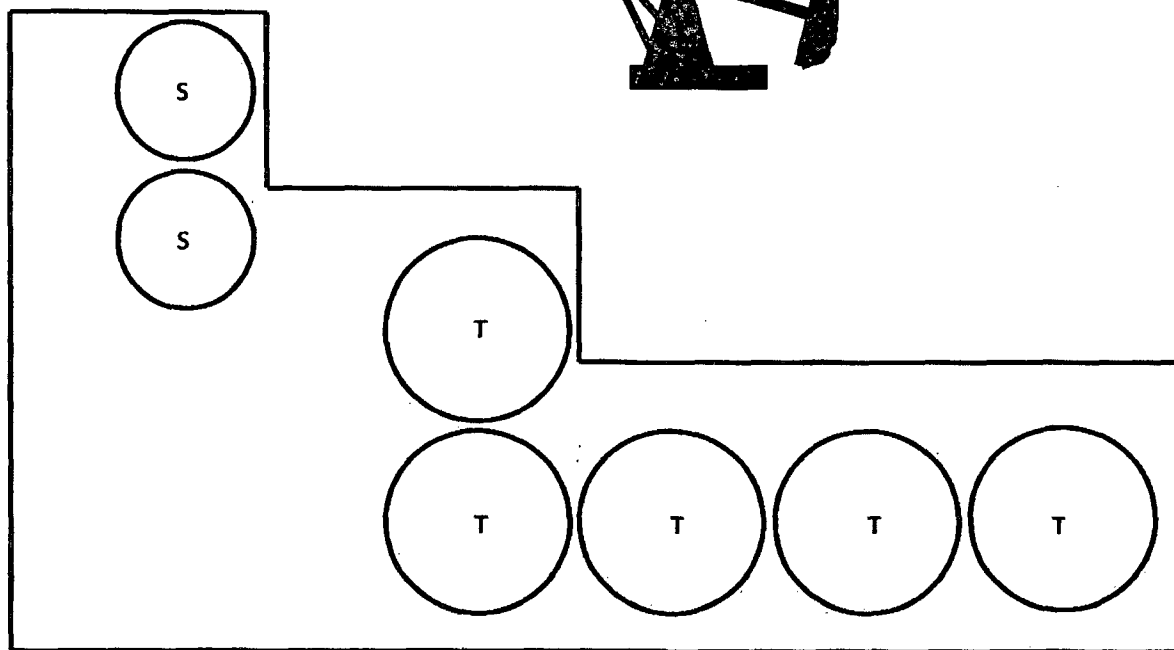
Thanks, Cliff

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 St.
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Phone: (575) 397-6388
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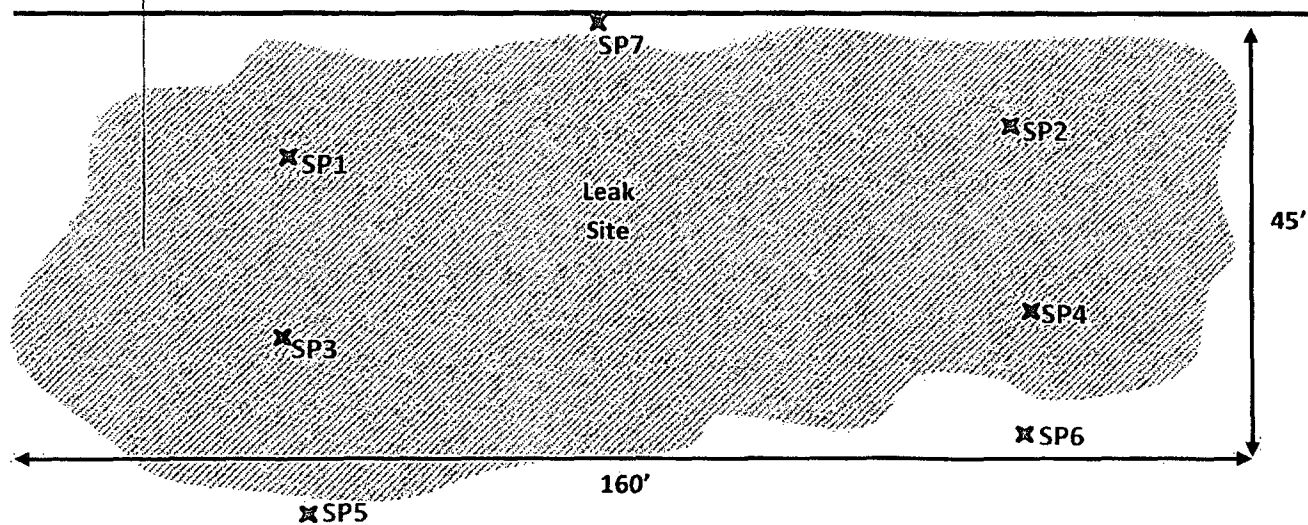
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Section 35, T21S, R31E
Eddy County, NM
N 32.42818 W 103.75586



Road



BBC International, Inc.	
Oxy	
Lost Tank 35 State #4 CTB	
Date: 06/14/12	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2012



Groundwater Plot

Oxy Lost Tank 35 State #4 CTB

County
Eddy

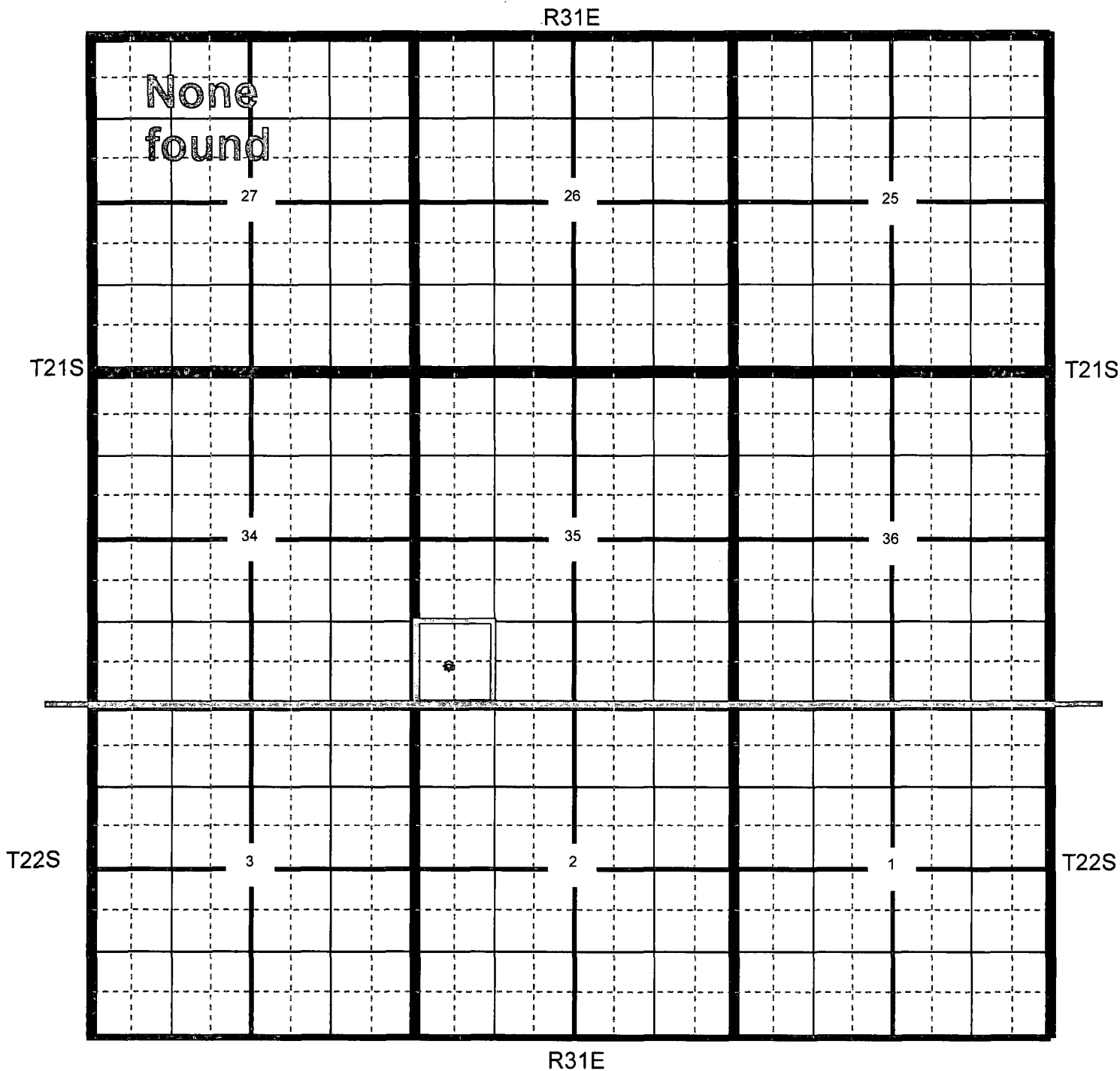
Unit Letter
M

Section
35

Township
21S

Range
31E

Trend Map 100'-150'



★ Location

⊙ OCD

○ USGS

● SEO

● All Databases



Section Quarters

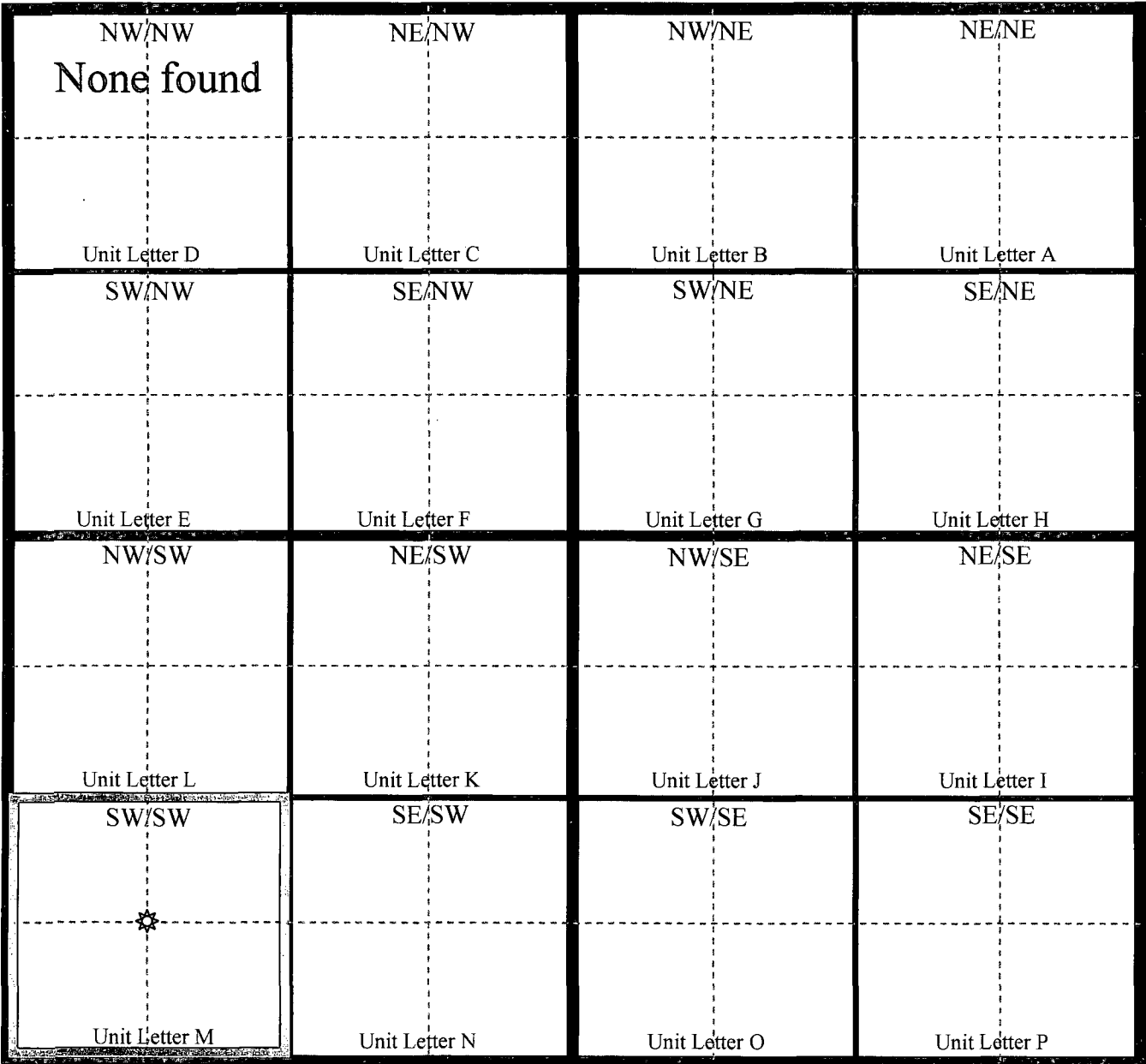
Oxy Lost Tank 35 State #4 CTB

County	Unit Letter	Section	Township	Range
Eddy	M	35	21S	31E

Trend Map 100'-150'

1

2



3

4

★ Location ⊙ OCD ○ USGS ● SEO ● All Databases

Laboratory Analytical Results Summary
OXY, Lost Tank 35 State #4 CTB

		Sample	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	10/25/12	10/25/12
			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		384	96
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		29.4	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 3'	SP2 @ 7'	SP2 @ 10'
Analyte	Method	Date	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	N/A	N/A
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	N/A	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	N/A	N/A
Chloride	SM4500Cl-B		3440	752	992	10000	112
GRO	TPH 8015M		<10.0	<10.0	<10.0	N/A	N/A
DRO	TPH 8015M		177	<10.0	<10.0	N/A	N/A

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 3'	SP3 @ 7'	SP3 @ 12'	SP3 @ 18'
Analyte	Method	Date	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	N/A	N/A	N/A
Toluene	BTEX 8021B		<0.050	0.068	<0.050	N/A	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	0.85	<0.050	N/A	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	2.29	<0.150	N/A	N/A	N/A
Total BTEX	BTEX 8021B		<0.300	3.21	<0.300	N/A	N/A	N/A
Chloride	SM4500Cl-B		1040	3320	3040	18400	14000	12600
GRO	TPH 8015M		<50.0	220	<10.0	N/A	N/A	N/A
DRO	TPH 8015M		872	6310	10.6	N/A	N/A	N/A

		Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 3'	SP4 @ 7'	SP4 @ 12'	SP4 @ 17'
Analyte	Method	Date	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	N/A	N/A	N/A
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	N/A	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	N/A	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	N/A	N/A	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	N/A	N/A	N/A
Chloride	SM4500Cl-B		272	480	6700	21200	4720	144
GRO	TPH 8015M		<10.0	<10.0	<10.0	N/A	N/A	N/A
DRO	TPH 8015M		<10.0	12.6	33.6	N/A	N/A	N/A

		Sample	SP5 @ SURFACE	SP5 @ 3'	SP5 @ 7'	SP5 @ 10'
Analyte	Method	Date	10/26/12	10/26/12	10/26/12	10/26/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		16	16	32	<16.0

		Sample	SP6 @ SURFACE	SP6 @ 3'	SP6 @ 7'	SP6 @ 10'
Analyte	Method	Date	10/26/12	10/26/12	10/26/12	10/26/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		<16.0	<16.0	<16.0	<16.0

		Sample	SP7 @ SURFACE	SP7 @ 3'	SP7 @ 5'
Analyte	Method	Date	10/26/12	10/26/12	10/26/12
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		<16.0	<16.0	<16.0



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

November 07, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOST TANK 35-4

Enclosed are the results of analyses for samples received by the laboratory on 11/01/12 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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: (505) 397-0397

Received: 11/01/2012
Reported: 11/07/2012
Project Name: LOST TANK 35-4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/25/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H202671-01)

BTX 8021B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78			
Toluene*	<0.050	0.050	11/06/2012	ND	2.07	104	2.00	8.18			
Ethylbenzene*	<0.050	0.050	11/06/2012	ND	2.08	104	2.00	8.02			
Total Xylenes*	<0.150	0.150	11/06/2012	ND	6.35	106	6.00	7.19			
Total BTX	<0.300	0.300	11/06/2012	ND							

Surrogate: 4-Bromofluorobenzene (PIE) 121 % 89.4-126

Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	384	16.0	11/06/2012	ND	416	104	400	3.92			

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	11/05/2012	ND	194	96.9	200	4.39			
DRO >C10-C28	29.4	10.0	11/05/2012	ND	217	108	200	1.00			

Surrogate: 1-Chlorooctane 85.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.0 % 63.6-154

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*=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: 11/01/2012
Reported: 11/07/2012
Project Name: LOST TANK 35-4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/25/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H202671-02)

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78	
Toluene*	<0.050	0.050	11/06/2012	ND	2.07	104	2.00	8.18	
Ethylbenzene*	<0.050	0.050	11/06/2012	ND	2.08	104	2.00	8.02	
Total Xylenes*	<0.150	0.150	11/06/2012	ND	6.35	106	6.00	7.19	
Total BTEX	<0.300	0.300	11/06/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 119 % 89.4-126

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	11/06/2012	ND	416	104	400	3.92	

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	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	<10.0	10.0	11/05/2012	ND	217	108	200	1.00	

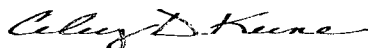
Surrogate: 1-Chlorooctane 84.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.8 % 63.6-154

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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:	11/01/2012	Sampling Date:	10/25/2012
Reported:	11/07/2012	Sampling Type:	Soil
Project Name:	LOST TANK 35-4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 @ SURFACE (H202671-03)

BTX 8021B			mg/kg							Analyzed By: AP
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78		
Toluene*	<0.050	0.050	11/06/2012	ND	2.07	104	2.00	8.18		
Ethylbenzene*	<0.050	0.050	11/06/2012	ND	2.08	104	2.00	8.02		
Total Xylenes*	<0.150	0.150	11/06/2012	ND	6.35	106	6.00	7.19		
Total BTX	<0.300	0.300	11/06/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 119 % 89.4-126

Chloride, SM4500CI-B			mg/kg							Analyzed By: HM
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	16.0	11/06/2012	ND	416	104	400	3.92		

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	11/05/2012	ND	194	96.9	200	4.39		
DRO >C10-C28	177	10.0	11/05/2012	ND	217	108	200	1.00		

Surrogate: 1-Chlorooctane 85.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.1 % 63.6-154

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Received:	11/01/2012	Sampling Date:	10/25/2012
Reported:	11/07/2012	Sampling Type:	Soil
Project Name:	LOST TANK 35-4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 @ 1' (H202671-04)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78	
Toluene*	<0.050	0.050	11/06/2012	ND	2.07	104	2.00	8.18	
Ethylbenzene*	<0.050	0.050	11/06/2012	ND	2.08	104	2.00	8.02	
Total Xylenes*	<0.150	0.150	11/06/2012	ND	6.35	106	6.00	7.19	
Total BTX	<0.300	0.300	11/06/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 120 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	11/06/2012	ND	416	104	400	3.92	

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	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	<10.0	10.0	11/05/2012	ND	217	108	200	1.00	

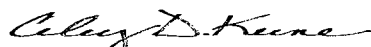
Surrogate: 1-Chlorooctane 82.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.0 % 63.6-154

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

Received: 11/01/2012
Reported: 11/07/2012
Project Name: LOST TANK 35-4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/25/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 3' (H202671-05)

BTX 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78	
Toluene*	<0.050	0.050	11/06/2012	ND	2.07	104	2.00	8.18	
Ethylbenzene*	<0.050	0.050	11/06/2012	ND	2.08	104	2.00	8.02	
Total Xylenes*	<0.150	0.150	11/06/2012	ND	6.35	106	6.00	7.19	
Total BTX	<0.300	0.300	11/06/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	11/06/2012	ND	416	104	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					

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	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	<10.0	10.0	11/05/2012	ND	217	108	200	1.00	

Surrogate: 1-Chlorooctane 86.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.0 % 63.6-154

Sample ID: SP 2 @ 7' (H202671-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10000	16.0	11/06/2012	ND	416	104	400	3.92		

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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:	11/01/2012	Sampling Date:	10/25/2012
Reported:	11/07/2012	Sampling Type:	Soil
Project Name:	LOST TANK 35-4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 @ 10' (H202671-07)

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	11/06/2012	ND	416	104	400	3.92	

Sample ID: SP 3 @ SURFACE (H202671-08)

BTX 8021B		mg/kg		Analyzed By: AP						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78		
Toluene*	<0.050	0.050	11/06/2012	ND	2.07	104	2.00	8.18		
Ethylbenzene*	<0.050	0.050	11/06/2012	ND	2.08	104	2.00	8.02		
Total Xylenes*	<0.150	0.150	11/06/2012	ND	6.35	106	6.00	7.19		
Total BTX	<0.300	0.300	11/06/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 135 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	11/06/2012	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	872	50.0	11/05/2012	ND	217	108	200	1.00	

Surrogate: 1-Chlorooctane 88.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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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: 11/01/2012
 Reported: 11/07/2012
 Project Name: LOST TANK 35-4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/25/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H202671-09)

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78	
Toluene*	0.068	0.050	11/06/2012	ND	2.07	104	2.00	8.18	
Ethylbenzene*	0.850	0.050	11/06/2012	ND	2.08	104	2.00	8.02	
Total Xylenes*	2.29	0.150	11/06/2012	ND	6.35	106	6.00	7.19	
Total BTX	3.21	0.300	11/06/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 525 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	11/06/2012	ND	416	104	400	3.92	
TPH 8015M									

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	220	50.0	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	6310	50.0	11/05/2012	ND	217	108	200	1.00	

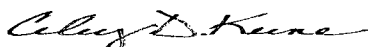
Surrogate: 1-Chlorooctane 125 % 65.2-140

Surrogate: 1-Chlorooctadecane 164 % 63.6-154

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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: 11/01/2012
Reported: 11/07/2012
Project Name: LOST TANK 35-4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/25/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 3' (H202671-10)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78	
Toluene*	<0.050	0.050	11/06/2012	ND	2.07	104	2.00	8.18	
Ethylbenzene*	<0.050	0.050	11/06/2012	ND	2.08	104	2.00	8.02	
Total Xylenes*	<0.150	0.150	11/06/2012	ND	6.35	106	6.00	7.19	
Total BTX	<0.300	0.300	11/06/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 126 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	11/06/2012	ND	416	104	400	3.92		

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	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	10.6	10.0	11/05/2012	ND	217	108	200	1.00	

Surrogate: 1-Chlorooctane 91.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

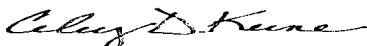
Sample ID: SP 3 @ 7' (H202671-11)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	11/06/2012	ND	416	104	400	3.92	

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Analytical Results For:

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P.O. Box 805
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Received: 11/01/2012
Reported: 11/07/2012
Project Name: LOST TANK 35-4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/25/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 12' (H202671-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14000	16.0	11/06/2012	ND	416	104	400	3.92		

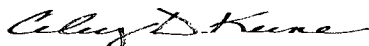
Sample ID: SP 3 @ 18' (H202671-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12600	16.0	11/06/2012	ND	416	104	400	3.92	

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Received: 11/01/2012
Reported: 11/07/2012
Project Name: LOST TANK 35-4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/25/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ SURFACE (H202671-14)

BTX 8021B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78		
Toluene*	<0.050	0.050	11/06/2012	ND	2.07	104	2.00	8.18		
Ethylbenzene*	<0.050	0.050	11/06/2012	ND	2.08	104	2.00	8.02		
Total Xylenes*	<0.150	0.150	11/06/2012	ND	6.35	106	6.00	7.19		
Total BTX	<0.300	0.300	11/06/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 89.4-126

Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	272	16.0	11/06/2012	ND	416	104	400	3.92			

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	11/05/2012	ND	194	96.9	200	4.39			
DRO >C10-C28	<10.0	10.0	11/05/2012	ND	217	108	200	1.00			

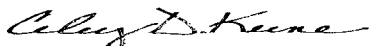
Surrogate: 1-Chlorooctane 88.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.4 % 63.6-154

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Fax To: (505) 397-0397

Received: 11/01/2012
Reported: 11/07/2012
Project Name: LOST TANK 35-4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/25/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1' (H202671-15)

BTX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78	
Toluene*	<0.050	0.050	11/06/2012	ND	2.07	104	2.00	8.18	
Ethylbenzene*	<0.050	0.050	11/06/2012	ND	2.08	104	2.00	8.02	
Total Xylenes*	<0.150	0.150	11/06/2012	ND	6.35	106	6.00	7.19	
Total BTX	<0.300	0.300	11/06/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 119 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/06/2012	ND	416	104	400	3.92	

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	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	12.6	10.0	11/05/2012	ND	217	108	200	1.00	

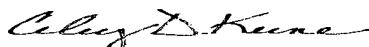
Surrogate: 1-Chlorooctane 89.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.6 % 63.6-154

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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: 11/01/2012
Reported: 11/07/2012
Project Name: LOST TANK 35-4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/25/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 3' (H202671-16)

BTX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78		
Toluene*	<0.050	0.050	11/06/2012	ND	2.07	104	2.00	8.18		
Ethylbenzene*	<0.050	0.050	11/06/2012	ND	2.08	104	2.00	8.02		
Total Xylenes*	<0.150	0.150	11/06/2012	ND	6.35	106	6.00	7.19		
Total BTX	<0.300	0.300	11/06/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 119 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6700	16.0	11/06/2012	ND	416	104	400	3.92		

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	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	33.6	10.0	11/05/2012	ND	217	108	200	1.00	

Surrogate: 1-Chlorooctane 85.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.5 % 63.6-154

Sample ID: SP 4 @ 7' (H202671-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	11/06/2012	ND	416	104	400	3.92	

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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: 11/01/2012
Reported: 11/07/2012
Project Name: LOST TANK 35-4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/25/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 12' (H202671-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	11/06/2012	ND	416	104	400	3.92	

Sample ID: SP 4 @ 17' (H202671-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/06/2012	ND	416	104	400	3.92	

Sample ID: SP 5 @ SURFACE (H202671-20)

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	11/06/2012	ND	416	104	400	3.92	

Sample ID: SP 5 @ 3' (H202671-21)

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	11/06/2012	ND	400	100	400	0.00	

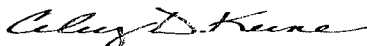
Sample ID: SP 5 @ 7' (H202671-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/06/2012	ND	400	100	400	0.00	

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

Received: 11/01/2012
Reported: 11/07/2012
Project Name: LOST TANK 35-4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/26/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 10' (H202671-23)

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	11/06/2012	ND	400	100	400	0.00	

Sample ID: SP 6 @ SURFACE (H202671-24)

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	11/06/2012	ND	400	100	400	0.00	

Sample ID: SP 6 @ 3' (H202671-25)

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	11/06/2012	ND	400	100	400	0.00	

Sample ID: SP 6 @ 7' (H202671-26)

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	11/06/2012	ND	400	100	400	0.00	

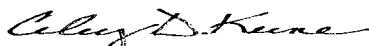
Sample ID: SP 6 @ 10' (H202671-27)

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	11/06/2012	ND	400	100	400	0.00	

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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: 11/01/2012
Reported: 11/07/2012
Project Name: LOST TANK 35-4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/26/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 7 @ SURFACE (H202671-28)

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	11/06/2012	ND	400	100	400	0.00		

Sample ID: SP 7 @ 3' (H202671-29)

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	11/06/2012	ND	400	100	400	0.00		

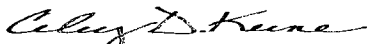
Sample ID: SP 7 @ 5' (H202671-30)

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	11/06/2012	ND	400	100	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

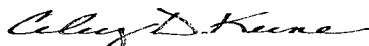
Notes and Definitions

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.
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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Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(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												
Phone #: 575-397-6388		Fax #: 575-397-0397		Attn:												
Project #:		Project Owner: Oxy		Address:												
Project Name: Lost Tank 35-4		City:		State:												
Project Location: Eddy County, NM		Zip:		Phone #:												
Sampler Name: Jeff Ornelas				Fax #:												
FOR LAB USE ONLY																
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	CI	TPH	BTEX
11	SP3 @ 7'	G			✓				✓			10/25/12	1:50 PM	✓		
12	SP3 @ 12'	G			✓				✓			10/25/12	2:22 PM	✓		
13	SP3 @ 18'	G			✓				✓			10/25/12	2:56 PM	✓		
14	SP4 @ SURFACE	G			✓				✓			10/25/12	3:11 PM	✓	✓	✓
15	SP4 @ 1'	G			✓				✓			10/25/12	3:13 PM	✓	✓	✓
16	SP4 @ 3'	G			✓				✓			10/25/12	3:20 PM	✓	✓	✓
17	SP4 @ 7'	G			✓				✓			10/25/12	3:34 PM	✓		
18	SP4 @ 12'	G			✓				✓			10/25/12	3:41 PM	✓		
19	SP4 @ 17'	G			✓				✓			10/25/12	3:59 PM	✓		
20	SP5 @ SURFACE	G			✓				✓			10/26/12	8:19 AM	✓		

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Relinquished By: <i>Jeff Ornelas</i>	Date: 10/26/12 Time: 5:00pm	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Date: Time:	Received By: <i>Jodi Benson</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>[Signature]</i>
REMARKS:			

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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Lost Tank 35 State 4 CTB	Facility Type	Battery
Surface Owner	Oxy	Mineral Owner	
		Lease No.	V-3604

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	35	21S	31E					Eddy County, NM

Latitude N 32.42938 Longitude W 103.77549

NATURE OF RELEASE

Type of Release	Oil & Produced water	Volume of Release	5 bbls oil & 20 bbls produced water	Volume Recovered	0 bbls
Source of Release	Transfer line leak	Date and Hour of Occurrence	5/30/12	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher- OCD		
By Whom?	Chancey Summers	Date and Hour	6/4/12 @ 3:35 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A transfer line leak caused 5 bbls of oil and 20 bbls of produced water to spill onto the ground. No fluids were recovered. Remediation will be performed according to an OCD approved remediation plan.

Describe Area Affected and Cleanup Action Taken.*

The area affected is approximately 60' x 200'. A transfer line leak caused 5 bbls of oil and 20 bbls of produced water to spill onto the ground. No fluids were recovered. Remediation will be performed according to an OCD approved remediation plan.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature:			
Printed Name:	Chancey Summers	Approved by District Supervisor:	
Title:	HES Specialist	Approval Date:	Expiration Date:
E-mail Address:	Chancey_Summers@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	3-27-13	Phone:	(575) 397-8216

* Attach Additional Sheets If Necessary