

Closure Report

22P-2271

NM OIL CONSERVATION

ARTESIA DISTRICT

AUG 12 2014

Site Description

RECEIVED

Site Name:	Cypress 28 Federal #3H Battery
Company:	Oxy Permian Ltd.
Legal Description:	U/L D, Section 28, T23S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.28217° W 103.99788°

Release Data

Date of Release:	04/14/2014
Type of Release:	Oil and produced water
Source of Release:	Internal corrosion on 2" steel transfer line
Volume of Release:	40 bbls oil and 20 bbls produced water
Volume Recovered:	50 bbls total

Remediation Specifications

Remediation Parameters:	Excavate to a depth of 4 feet in the area of SP1, SP2, and SP3. The area around the round tank is lined and bermed and the impacted soil will be removed and replaced. Backfill all excavations with clean soil.	
Remediation Activities:	07/24/2014 to 08/05/2014	
Plan Sent to OCD:	06/26/2014	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	06/30/2014	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	06/26/2014	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	06/30/2014	Verbal approval from J. Van Curen in Mtg

Supporting Documentation

Initial C-141	Signed 04/15/2014
Final C-141	Signed 08/07/2014
Site Diagram	April 2014
Groundwater Plot	50'
TOPO Maps	April 2014
Lab Summary	05/14/2014 to 05/15/2014
Lab Analysis	05/14/2014 to 05/15/2014
Correspondence	Request and approval of remediation plan via email

Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

08/08/2014

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	CJ Summers
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	Cypress 28 Federal #3H Battery	Facility Type	Gathering

Surface Owner	BLM	Mineral Owner		API No.	30-015-38287 (nearest well)
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	28	23S	29E					Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	40 bbls oil, 20 bbls produced water	Volume Recovered	50 bbls
Source of Release	Internal corrosion on 2" steel transfer line off the back of skim tank	Date and Hour of Occurrence	04/14/14	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-NMOCD; Jennifer Van Curen-BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	04/14/14 @ 3:39 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.*

Internal corrosion on a 2" steel transfer line off the back of the skim tank caused 40 bbls of oil and 20 bbls of produced water to leak onto the ground. A vacuum truck recovered 50 bbls of fluids and the line was repaired or replaced.

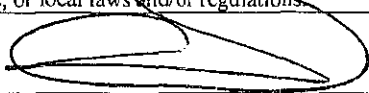
Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 30'x 30' on location. Remediation will be performed in accordance with a plan approved by NMOCD and BLM.

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 ☐

Date: 4-15-14 Phone: (575) 397-8216

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
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1301 W. Grand Avenue, Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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State of New Mexico
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Form C-141
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Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	CJ Summers
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	Cypress 28 Federal #3H Battery	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
		API No. 30-015-38287 (nearest well)	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	28	23S	29E					Eddy

Latitude N 32.28217° Longitude W 103.99788°

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	40 bbls oil, 20 bbls produced water	Volume Recovered	50 bbls
Source of Release	Internal corrosion on 2" steel transfer line off the back of skim tank	Date and Hour of Occurrence	04/14/14	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-NMOCD; Jennifer Van Curen-BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	04/14/14 @ 3:39 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse			

NM OIL CONSERVATION
ARTESIA DISTRICT

If a Watercourse was Impacted, Describe Fully.*

AUG 12 2014

RECEIVED

Describe Cause of Problem and Remedial Action Taken.*

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Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 30'x 30' on location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 06/30/2014 and approved by Jennifer Van Curen of the BLM.

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

Title: HES Specialist

E-mail Address: Chancey.Summers@oxy.com

Date: 8-7-14

Phone: (575) 397-8216

Approved by District Supervisor:

Approval Date:

Expiration Date:

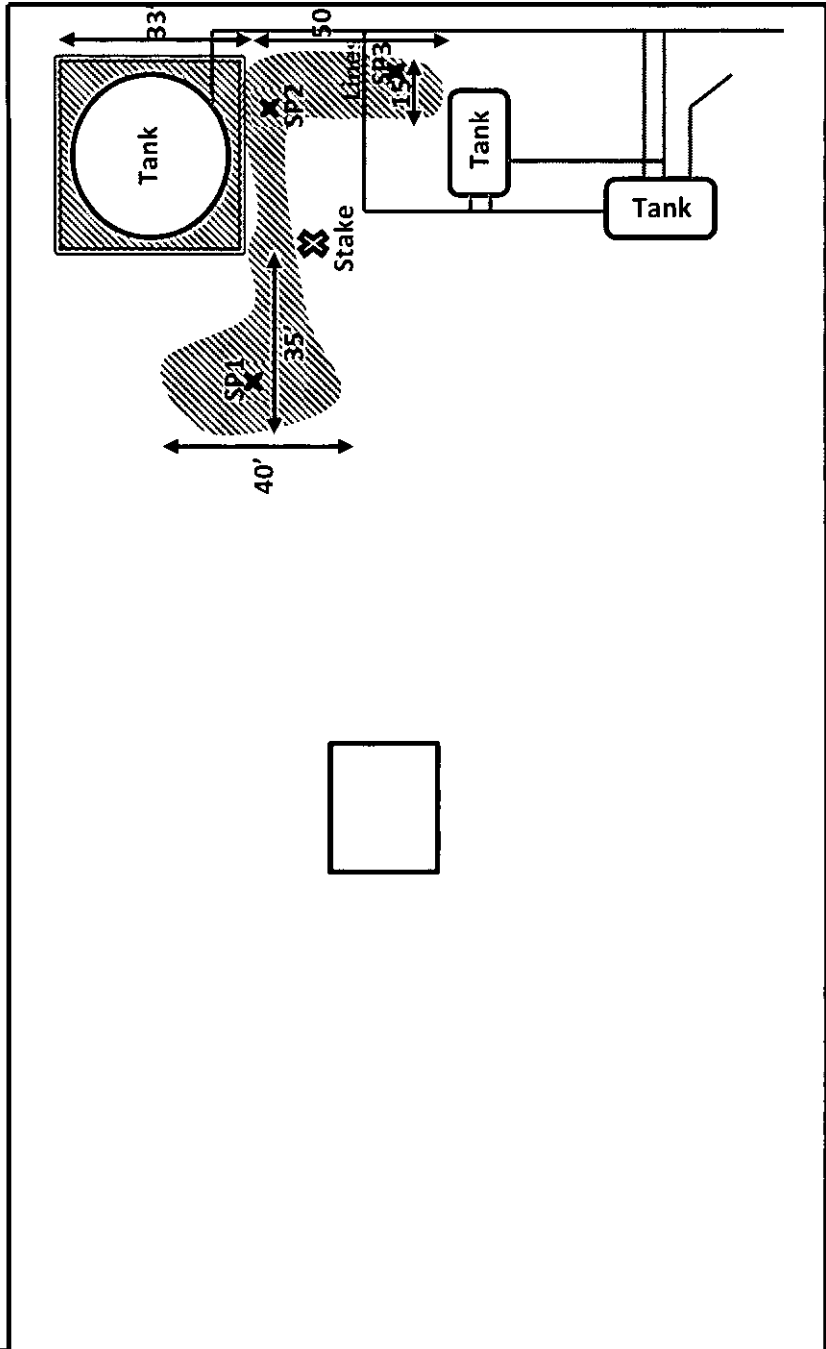
Conditions of Approval:

Attached ☐

* Attach Additional Sheets If Necessary



Oxy
Cypress 28 Federal #3H Battery



U/L D, Section 28, T23S, R29E
Eddy County, NM
N 32.28217° W 103.99788°

BBC International, Inc.	
Oxy	
Cypress 28 Federal #3H Battery	
Date: 04/22/2014	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014



Groundwater Plot

Oxy Cypress 28 Federal #3H

County
Eddy

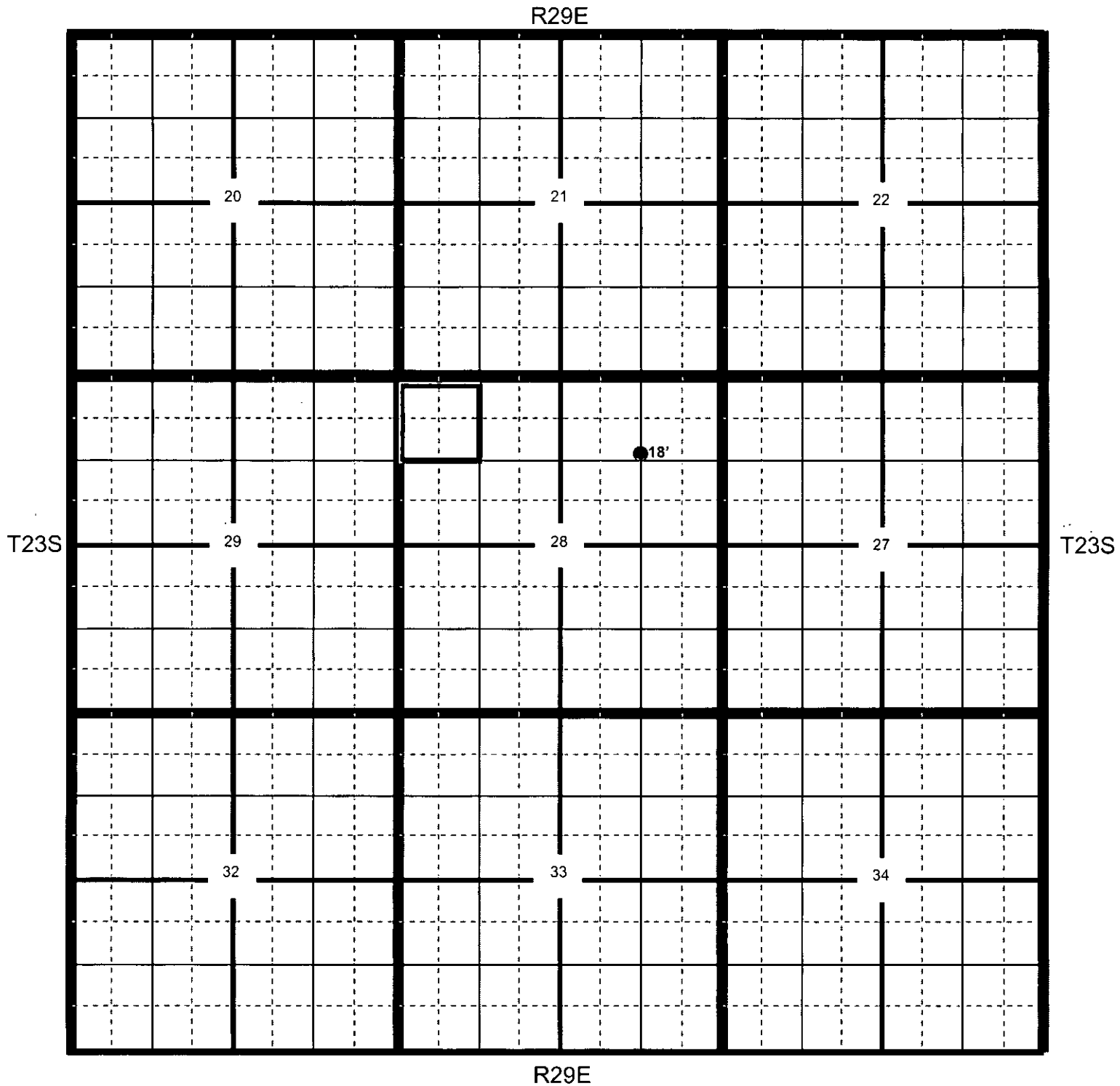
Unit Letter
D

Section
28

Township
23S

Range
29E

Trend Map 50'



⊙ Location

○ OCD

● USGS

● SEO

● All Databases

Oxy Cypress 28 Federal #3H

County
Eddy

Unit Letter
D

Section
28

Township
T23S

Range
R29E

Trend Map 50'

1

2

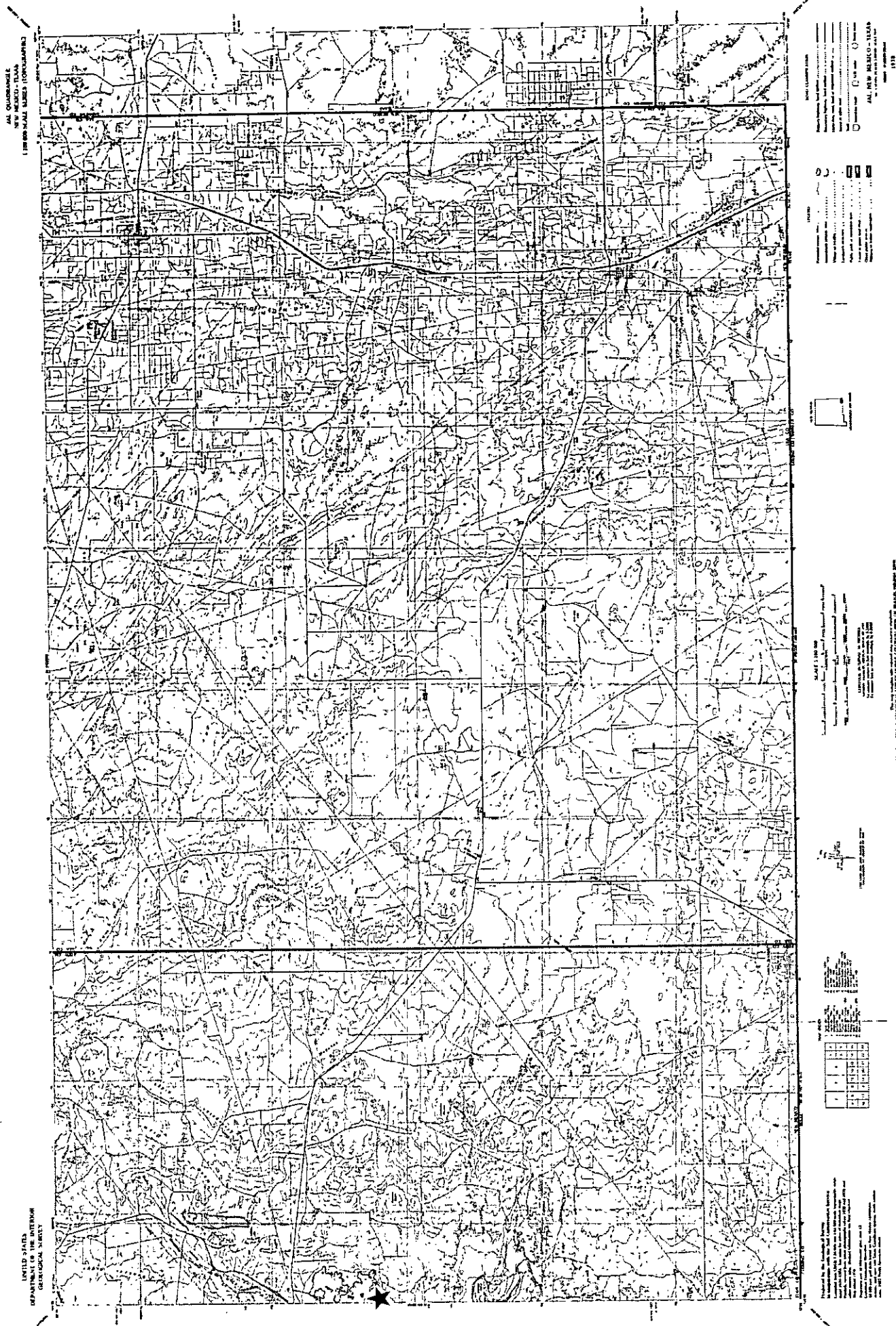
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SW/NW Unit Letter E	SE/NW Unit Letter F	SW/NE Unit Letter G	SE/NE Unit Letter H
NW/SW Unit Letter L	NE/SW Unit Letter K	NW/SE Unit Letter J	NE/SE Unit Letter I
SW/SW Unit Letter M	SE/SW Unit Letter N	SW/SE Unit Letter O	SE/SE Unit Letter P

3

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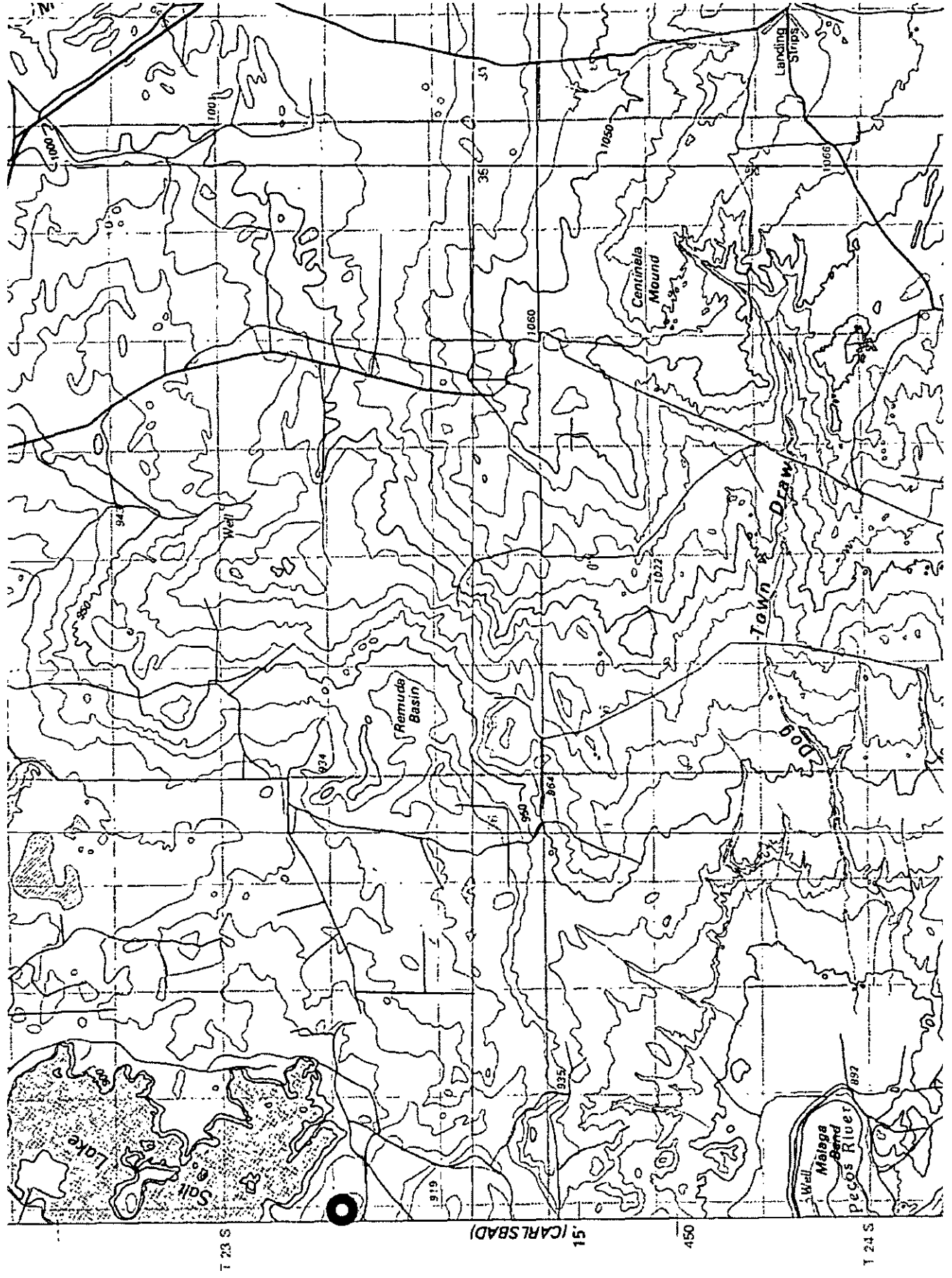
Oxy

Cypress 28 Federal #3H



Oxy

Cypress 28 Federal #3H



Laboratory Analytical Results Summary
Cypress 28 Federal #3H

Analyte	Method	Sample		SP1 @ 1'		SP1 @ 2'		SP1 @ 3'		SP1 @ 4'		SP1 @ 5'	
		Date		5/14/14	mg/Kg	5/14/14	mg/Kg	5/14/14	mg/Kg	5/14/14	mg/Kg	5/14/14	mg/Kg
Benzene	BTEX 8021B				0.584	<0.500	<0.200	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B				12.2	7.35	1.33	1.33	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B				15.8	15.2	4.1	4.1	0.05	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B				64.8	64.8	16.7	16.7	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B				93.4	84.5	22.2	22.2	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B				528	208	144	144	80	80	80	80	80
GRO	TPH 8015M				1850	1940	624	624	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M				12900	12000	6060	6060	<10.0	<10.0	<10.0	<10.0	<10.0

Analyte	Method	Sample		SP2 @ 1'		SP2 @ 2'		SP2 @ 3'		SP2 @ 4'		SP2 @ 5'	
		Date		5/14/14	mg/Kg	5/14/14	mg/Kg	5/14/14	mg/Kg	5/14/14	mg/Kg	5/14/14	mg/Kg
Benzene	BTEX 8021B				1.1	1.11	0.051	0.051	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B				16.8	17	1.22	1.22	0.092	0.092	0.08	0.08	0.08
Ethylbenzene	BTEX 8021B				17.9	20.8	2.83	2.83	0.279	0.279	0.115	0.115	0.115
Total Xylenes	BTEX 8021B				77.5	77.6	9.49	9.49	0.864	0.864	0.616	0.616	0.616
Total BTEX	BTEX 8021B				113	116	13.6	13.6	1.24	1.24	0.81	0.81	0.81
Chloride	SM4500Cl-B				960	320	272	272	448	448	96	96	96
GRO	TPH 8015M				1550	1740	308	308	35	35	10	10	10
DRO	TPH 8015M				8620	8590	4110	4110	1440	1440	23.3	23.3	23.3

Analyte	Method	Sample		SP3 @ 1'		SP3 @ 2'		SP3 @ 3'		SP3 @ 4'		SP3 @ 5'	
		Date		5/15/14	mg/Kg	5/15/14	mg/Kg	5/15/14	mg/Kg	5/15/14	mg/Kg	5/15/14	mg/Kg
Benzene	BTEX 8021B				1.57	2.15	<1.00	<1.00	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B				46.8	48.6	26.3	26.3	<0.050	<0.050	0.675	0.675	0.675
Ethylbenzene	BTEX 8021B				62.5	54.5	32.8	32.8	0.071	0.071	0.648	0.648	0.648
Total Xylenes	BTEX 8021B				301	261	153	153	0.274	0.274	3.98	3.98	3.98
Total BTEX	BTEX 8021B				412	367	212	212	0.345	0.345	5.3	5.3	5.3
Chloride	SM4500Cl-B				192	192	64	64	32	32	80	80	80
GRO	TPH 8015M				10000	8750	4520	4520	<10.0	<10.0	40.1	40.1	40.1
DRO	TPH 8015M				50500	42700	22200	22200	31.4	31.4	73.2	73.2	73.2

May 27, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 28 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 05/16/14 14:25.

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.

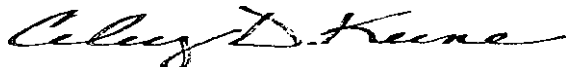
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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,



Caley 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:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 1 @ 1' (H401509-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.584	0.200	05/20/2014	ND	2.17	109	2.00	0.100	
Toluene*	12.2	0.200	05/20/2014	ND	2.17	108	2.00	0.742	
Ethylbenzene*	15.8	0.200	05/20/2014	ND	2.07	103	2.00	0.395	
Total Xylenes*	64.8	0.600	05/20/2014	ND	6.48	108	6.00	0.119	
Total BTEX	93.4	1.20	05/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 97.9 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	05/22/2014	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	1850	100	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	12900	100	05/23/2014	ND	224	112	200	10.1	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1850	100	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	12900	100	05/23/2014	ND	224	112	200	10.1	

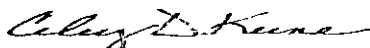
Surrogate: 1-Chlorooctane 194 % 65.2-140

Surrogate: 1-Chlorooctadecane 341 % 63.6-154

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:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 1 @ 2' (H401509-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	05/20/2014	ND	2.17	109	2.00	0.100	
Toluene*	7.35	0.500	05/20/2014	ND	2.17	108	2.00	0.742	
Ethylbenzene*	15.2	0.500	05/20/2014	ND	2.07	103	2.00	0.395	
Total Xylenes*	64.8	1.50	05/20/2014	ND	6.48	108	6.00	0.119	
Total BTEX	87.5	3.00	05/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 89.4-126

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	05/22/2014	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	1940	100	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	12000	100	05/23/2014	ND	224	112	200	10.1	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1940	100	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	12000	100	05/23/2014	ND	224	112	200	10.1	

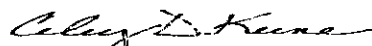
Surrogate: 1-Chlorooctane 205 % 65.2-140

Surrogate: 1-Chlorooctadecane 319 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 1 @ 3' (H401509-03)

BTEX 80218		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	05/20/2014	ND	2.17	109	2.00	0.100		
Toluene*	1.33	0.200	05/20/2014	ND	2.17	108	2.00	0.742		
Ethylbenzene*	4.10	0.200	05/20/2014	ND	2.07	103	2.00	0.395		
Total Xylenes*	16.7	0.600	05/20/2014	ND	6.48	108	6.00	0.119		
Total BTEX	22.2	1.20	05/20/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 99.0 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/22/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	624	10.0	05/22/2014	ND	201	101	200	7.89	
DRO >C10-C28	6060	10.0	05/22/2014	ND	224	112	200	10.1	

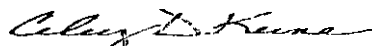
Surrogate: 1-Chlorooctane 191 % 65.2-140

Surrogate: 1-Chlorooctadecane 198 % 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: (575) 397-0397

Received:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 1 @ 4' (H401509-04)

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	05/20/2014	ND	2.17	109	2.00	0.100	
Toluene*	<0.050	0.050	05/20/2014	ND	2.17	108	2.00	0.742	
Ethylbenzene*	0.050	0.050	05/20/2014	ND	2.07	103	2.00	0.395	
Total Xylenes*	<0.150	0.150	05/20/2014	ND	6.48	108	6.00	0.119	
Total BTEX	<0.300	0.300	05/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/22/2014	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	05/22/2014	ND	201	101	200	7.89	
DRO >C10-C28	<10.0	10.0	05/22/2014	ND	224	112	200	10.1	

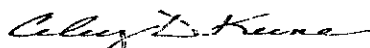
Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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

Received:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 1 @ 5' (H401509-05)

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	05/20/2014	ND	2.17	109	2.00	0.100	
Toluene*	<0.050	0.050	05/20/2014	ND	2.17	108	2.00	0.742	
Ethylbenzene*	<0.050	0.050	05/20/2014	ND	2.07	103	2.00	0.395	
Total Xylenes*	<0.150	0.150	05/20/2014	ND	6.48	108	6.00	0.119	
Total BTEX	<0.300	0.300	05/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/22/2014	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	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	16.9	10.0	05/23/2014	ND	224	112	200	10.1	

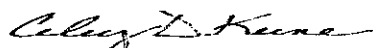
Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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

Received:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 2 @ 1' (H401509-06)

BTEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.10	0.500	05/20/2014	ND	2.17	109	2.00	0.100	
Toluene*	16.8	0.500	05/20/2014	ND	2.17	108	2.00	0.742	
Ethylbenzene*	17.9	0.500	05/20/2014	ND	2.07	103	2.00	0.395	
Total Xylenes*	77.5	1.50	05/20/2014	ND	6.48	108	6.00	0.119	
Total BTEX	113	3.00	05/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	05/22/2014	ND	416	104	400	3.92	

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	1550	100	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	8620	100	05/23/2014	ND	224	112	200	10.1	

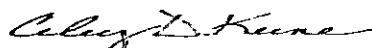
Surrogate: 1-Chlorooctane 171 % 65.2-140

Surrogate: 1-Chlorooctadecane 238 % 63.6-154

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Fax To: (575) 397-0397

Received:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 2 @ 2' (H401509-07)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.11	0.200	05/21/2014	ND	2.27	114	2.00	2.21	
Toluene*	17.0	0.200	05/21/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	20.8	0.200	05/21/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	77.6	0.600	05/21/2014	ND	6.73	112	6.00	0.527	
Total BTX	116	1.20	05/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 461 % 89.4-126

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	05/22/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1740	10.0	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	8590	10.0	05/23/2014	ND	224	112	200	10.1	

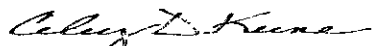
Surrogate: 1-Chlorooctane 227 % 65.2-140

Surrogate: 1-Chlorooctadecane 233 % 63.6-154

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Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 2 @ 3' (H401509-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.051	0.050	05/21/2014	ND	2.27	114	2.00	2.21		
Toluene*	1.22	0.050	05/21/2014	ND	2.23	112	2.00	1.54		
Ethylbenzene*	2.83	0.050	05/21/2014	ND	2.13	107	2.00	1.16		
Total Xylenes*	9.49	0.150	05/21/2014	ND	6.73	112	6.00	0.527		
Total BTEX	13.6	0.300	05/21/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 95.6 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	05/22/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	308	10.0	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	4110	10.0	05/23/2014	ND	224	112	200	10.1	

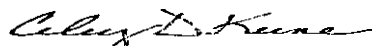
Surrogate: 1-Chlorooctane 151 % 65.2-140

Surrogate: 1-Chlorooctadecane 171 % 63.6-154

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

Received:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 2 @ 4' (H401509-09)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2014	ND	2.27	114	2.00	2.21	
Toluene*	0.092	0.050	05/21/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	0.279	0.050	05/21/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	0.864	0.150	05/21/2014	ND	6.73	112	6.00	0.527	
Total BTX	1.24	0.300	05/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 167 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/22/2014	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	35.0	10.0	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	1440	10.0	05/23/2014	ND	224	112	200	10.1	

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	35.0	10.0	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	1440	10.0	05/23/2014	ND	224	112	200	10.1	

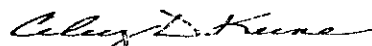
Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 126 % 63.6-154

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

Received:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 2 @ 5' (H401509-10)

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	05/21/2014	ND	2.27	114	2.00	2.21	
Toluene*	0.080	0.050	05/21/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	0.115	0.050	05/21/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	0.616	0.150	05/21/2014	ND	6.73	112	6.00	0.527	
Total BTEX	0.810	0.300	05/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/22/2014	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	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	23.3	10.0	05/23/2014	ND	224	112	200	10.1	

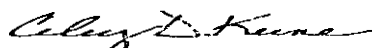
Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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Fax To: (575) 397-0397

Received:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 3 @ 1' (H401509-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	1.57	1.00	05/22/2014	ND	2.27	114	2.00	2.21		
Toluene*	46.8	1.00	05/22/2014	ND	2.23	112	2.00	1.54		
Ethylbenzene*	62.5	1.00	05/22/2014	ND	2.13	107	2.00	1.16		
Total Xylenes*	301	3.00	05/22/2014	ND	6.73	112	6.00	0.527		
Total BTEX	412	6.00	05/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/22/2014	ND	416	104	400	3.92		

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	10000	100	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	50500	100	05/23/2014	ND	224	112	200	10.1	


Surrogate: 1-Chlorooctane 733 % 65.2-140

Surrogate: 1-Chlorooctadecane 1290 % 63.6-154

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Received:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 3 @ 2' (H401509-12)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	2.15	1.00	05/22/2014	ND	2.27	114	2.00	2.21		
Toluene*	48.6	1.00	05/22/2014	ND	2.23	112	2.00	1.54		
Ethylbenzene*	54.5	1.00	05/22/2014	ND	2.13	107	2.00	1.16		
Total Xylenes*	261	3.00	05/22/2014	ND	6.73	112	6.00	0.527		
Total BTEX	367	6.00	05/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 99.6 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/22/2014	ND	416	104	400	3.92		

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	8750	50.0	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	42700	50.0	05/23/2014	ND	224	112	200	10.1	

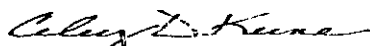
Surrogate: 1-Chlorooctane 627 % 65.2-140

Surrogate: 1-Chlorooctadecane 1160 % 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: (575) 397-0397

Received:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 3 @ 3' (H401509-13)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	05/22/2014	ND	2.27	114	2.00	2.21		
Toluene*	26.3	1.00	05/22/2014	ND	2.23	112	2.00	1.54		
Ethylbenzene*	32.8	1.00	05/22/2014	ND	2.13	107	2.00	1.16		
Total Xylenes*	153	3.00	05/22/2014	ND	6.73	112	6.00	0.527		
Total BTEX	212	6.00	05/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/22/2014	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	4520	50.0	05/23/2014	ND	201	101	200	7.89		
DRO >C10-C28	22200	50.0	05/23/2014	ND	224	112	200	10.1		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	4520	50.0	05/23/2014	ND	201	101	200	7.89		
DRO >C10-C28	22200	50.0	05/23/2014	ND	224	112	200	10.1		

Surrogate: 1-Chlorooctane 286 % 65.2-140

Surrogate: 1-Chlorooctadecane 554 % 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: (575) 397-0397

Received:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 3 @ 4' (H401509-14)

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	05/22/2014	ND	2.27	114	2.00	2.21	
Toluene*	<0.050	0.050	05/22/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	0.071	0.050	05/22/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	0.274	0.150	05/22/2014	ND	6.73	112	6.00	0.527	
Total BTEX	0.345	0.300	05/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 89.4-126

Chloride, SM4500Cl-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	05/22/2014	ND	400	100	400	0.00	

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	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	31.4	10.0	05/23/2014	ND	224	112	200	10.1	

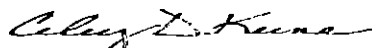
Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 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: (575) 397-0397

Received:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 3 @ 5' (H401509-15)

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	05/22/2014	ND	2.27	114	2.00	2.21	
Toluene*	0.675	0.050	05/22/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	0.648	0.050	05/22/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	3.98	0.150	05/22/2014	ND	6.73	112	6.00	0.527	
Total BTEX	5.30	0.300	05/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 124 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/22/2014	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	40.1	10.0	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	73.2	10.0	05/23/2014	ND	224	112	200	10.1	

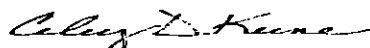
Surrogate: 1-Chlorooctane 98.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

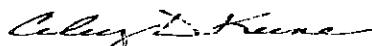
Notes and Definitions

- 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

ARDINAL LABORATORIES

1101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 505.393.2476

TX#

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.		P.O. #:		BILL TO												ANALYSIS REQUEST											
Project Manager: Cliff Brunson		Company:																									
Address: P.O. Box 805		Attn:																									
City: Hobbs		State: NM Zip: 88241																									
Phone #: 575-397-6388		Fax #: 575-397-0397																									
Project #:		Project Owner: DAV																									
Project Name: Cypress 28 Federal 34		City:																									
Project Location: Rzwick Rd		State:																									
Sampler Name: Bill Drachler		Phone #:																									
Fax #:																											

Lab I.D.	Sample I.D.	# CONTAINERS	MATRIX					PRESERV			SAMPLING	DATE	TIME	CL	TPH	BTEX
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL						
11	SP301	1										5/15	952			
12		1										1026				
13		1										1055				
14		1										1129				
15		1										1159				

Relinquished By:	Date: 5/14/14	Received By:	Date: 5/14/14
Relinquished By:	Date:	Received By:	Date:
Delivered By: (Circle One)		Sample Condition	
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Dry <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>	
-70c		CHECKED BY:	

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

#54

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Monday, June 30, 2014 2:02 PM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY-Cypress 28 Federal #3H Battery-remediation Plan

RE: OXY USA INC * Cypress 28 Federal 003H * 30-015-38287 * D-28-23s-29e * Eddy County, New Mexico
NMOCD Reference Number: 2RP-2271 * Date of release: 4/14/2014

Cliff,

Your proposal for remediation of the above referenced produced fluid release is approved. A 3' excavation at SP-1 will require a confirmation sample be obtained with lab data reviewed by OCD, prior to backfill. If SP-1 is excavated to 4', OCD will not require a confirmation sample event. Please notify OCD prior to commencement of remedial activities. Federal sites will require BLM approval of remediation proposal.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Thursday, June 26, 2014 8:00 PM
To: Bratcher, Mike, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY-Cypress 28 Federal #3H Battery-remediation Plan

Mike,

This e-mail is to confirm our conversation on June 18, 2014 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 to a depth of 3 feet in the area of SP1 and will excavate to a depth of 4 feet in the area of SP3 and SP4 as depicted on the attached site diagram. The area around the round tank is lined and bermed and the impacted soil will be removed and replaced. Then the site 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.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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Kathy Purvis

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Thursday, June 26, 2014 8:00 PM
To: Jennifer Van Curen
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY-Cypress 28 Federal #3H Battery-Remediation Plan
Attachments: Remediation Packet, Cypress 28 Federal #3H.pdf

Jennifer,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Mike Bratcher of the NMOCD. Oxy will excavate to a depth of 3 feet in the area of SP1 and will excavate to a depth of 4 feet in the area of SP3 and SP4 as depicted on the attached site diagram. The area around the round tank is lined and bermed and the impacted soil will be removed and replaced. Then the site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated. If you have any questions, please let us know.

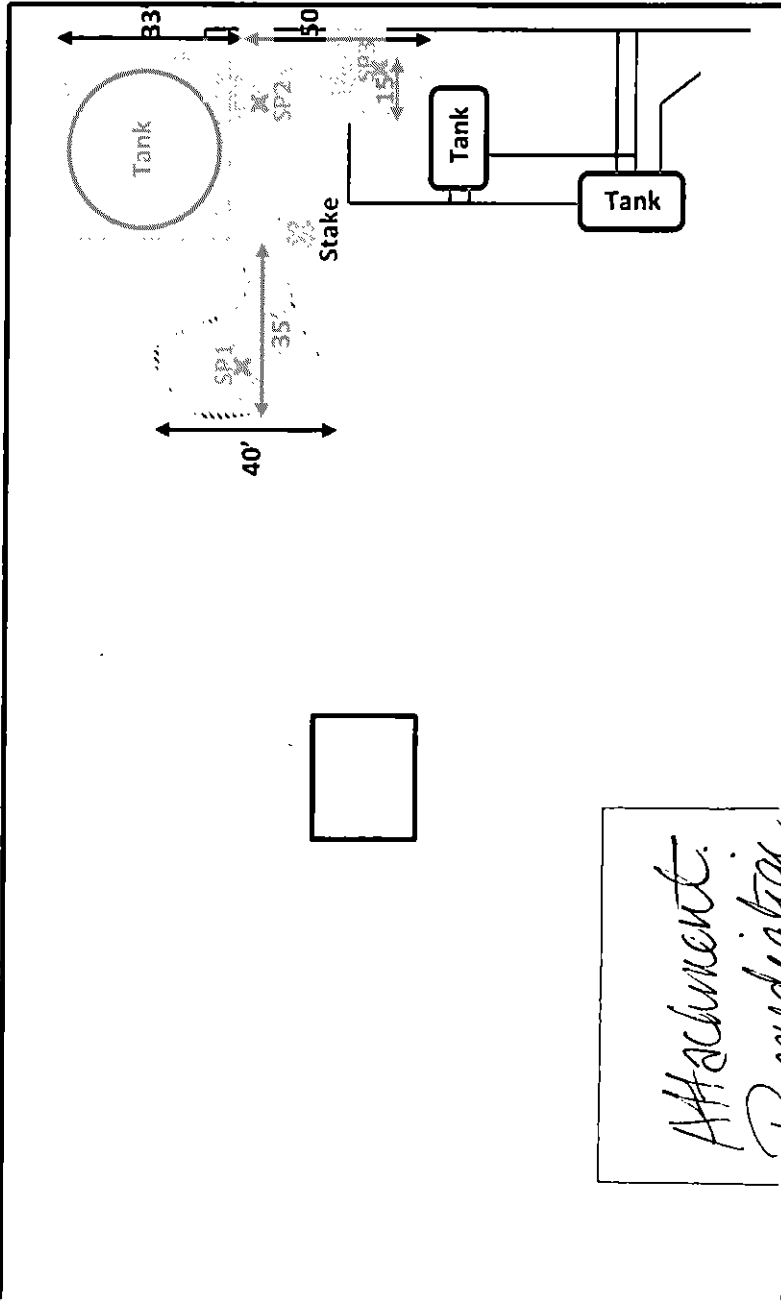
Thanks, Cliff

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.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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Oxy

Cypress 28 Federal #3H Battery



U/L D, Section 28, T23S, R29E
Eddy County, NM
N 32.28217° W 103.99788°

BBC International, Inc.	
Oxy	
Cypress 28 Federal #3H Battery	
Date: 04/22/2014	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014



Groundwater Plot

Oxy Cypress 28 Federal #3H

County
Eddy

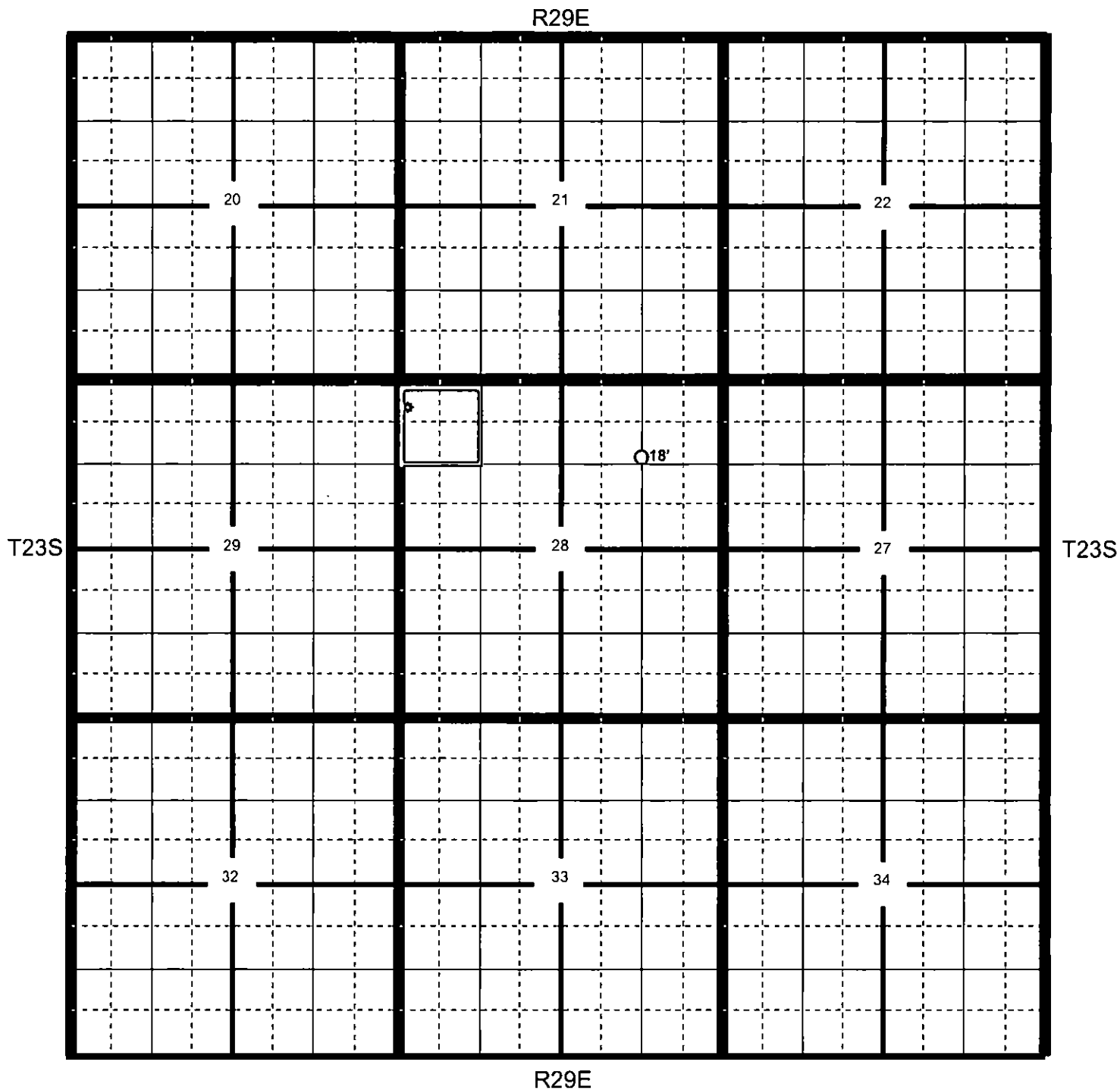
Unit Letter
D

Section
28

Township
23S

Range
29E

Trend Map 50'



⊛ Location

○ OCD

○ USGS

○ SEO

○ All Databases



Section Quarters


Oxy Cypress 28 Federal #3H

County	Unit Letter	Section	Township	Range
Eddy	D	28	T23S	R29E

Trend Map 50'

1

2

<div>NW/NW</div> <div>Unit Letter D</div> 	<div>NE/NW</div> <div>Unit Letter C</div>	<div>NW/NE</div> <div>Unit Letter B</div>	<div>NE/NE</div> <div>Unit Letter A</div>
<div>SW/NW</div> <div>Unit Letter E</div>	<div>SE/NW</div> <div>Unit Letter F</div>	<div>SW/NE</div> <div>Unit Letter G</div>	<div>SE/NE</div> <div>Unit Letter H</div>
<div>NW/SW</div> <div>Unit Letter L</div>	<div>NE/SW</div> <div>Unit Letter K</div>	<div>NW/SE</div> <div>Unit Letter J</div>	<div>NE/SE</div> <div>Unit Letter I</div>
<div>SW/SW</div> <div>Unit Letter M</div>	<div>SE/SW</div> <div>Unit Letter N</div>	<div>SW/SE</div> <div>Unit Letter O</div>	<div>SE/SE</div> <div>Unit Letter P</div>

18'

3

4

 Location  OCD  USGS  SEO  All Databases

Laboratory Analytical Results Summary
Cypress 28 Federal #3H

Analyte	Method	Sample Date	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'
			5/14/14	5/14/14	5/14/14	5/14/14	5/14/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.584	<0.500	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		12.2	7.35	1.33	<0.050	<0.050
Ethylbenzene	BTEX 8021B		15.8	15.2	4.1	0.05	<0.050
Total Xylenes	BTEX 8021B		64.8	64.8	16.7	<0.150	<0.150
Total BTEX	BTEX 8021B		93.4	84.5	22.2	<0.300	<0.300
Chloride	SM4500Cl-B		528	208	144	80	80
GRO	TPH 8015M		1850	1940	624	<10.0	<10.0
DRO	TPH 8015M		12900	12000	6060	<10.0	16.9

Analyte	Method	Sample Date	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
			5/14/14	5/14/14	5/14/14	5/14/14	5/14/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		1.1	1.11	0.051	<0.050	<0.050
Toluene	BTEX 8021B		16.8	17	1.22	0.092	0.08
Ethylbenzene	BTEX 8021B		17.9	20.8	2.83	0.279	0.115
Total Xylenes	BTEX 8021B		77.5	77.6	9.49	0.864	0.616
Total BTEX	BTEX 8021B		113	116	13.6	1.24	0.81
Chloride	SM4500Cl-B		960	320	272	448	96
GRO	TPH 8015M		1550	1740	308	35	10
DRO	TPH 8015M		8620	8590	4110	1440	23.3

Analyte	Method	Sample Date	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
			5/15/14	5/15/14	5/15/14	5/15/14	5/15/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		1.57	2.15	<1.00	<0.050	<0.050
Toluene	BTEX 8021B		46.8	48.6	26.3	<0.050	0.675
Ethylbenzene	BTEX 8021B		62.5	54.5	32.8	0.071	0.648
Total Xylenes	BTEX 8021B		301	261	153	0.274	3.98
Total BTEX	BTEX 8021B		412	367	212	0.345	5.3
Chloride	SM4500Cl-B		192	192	64	32	80
GRO	TPH 8015M		10000	8750	4520	<10.0	40.1
DRO	TPH 8015M		50500	42700	22200	31.4	73.2

May 27, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 28 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 05/16/14 14:25.

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.

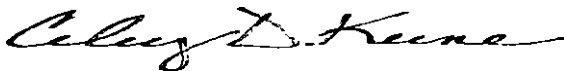
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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,



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:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 1 @ 1' (H401509-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.584	0.200	05/20/2014	ND	2.17	109	2.00	0.100	
Toluene*	12.2	0.200	05/20/2014	ND	2.17	108	2.00	0.742	
Ethylbenzene*	15.8	0.200	05/20/2014	ND	2.07	103	2.00	0.395	
Total Xylenes*	64.8	0.600	05/20/2014	ND	6.48	108	6.00	0.119	
Total BTEX	93.4	1.20	05/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 97.9 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	05/22/2014	ND	416	104	400	3.92	

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	1850	100	05/23/2014	ND	201	101	200	7.89		
DRO >C10-C28	12900	100	05/23/2014	ND	224	112	200	10.1		


Surrogate: 1-Chlorooctane 194 % 65.2-140

Surrogate: 1-Chlorooctadecane 341 % 63.6-154

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

Received:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 1 @ 2' (H401509-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	05/20/2014	ND	2.17	109	2.00	0.100	
Toluene*	7.35	0.500	05/20/2014	ND	2.17	108	2.00	0.742	
Ethylbenzene*	15.2	0.500	05/20/2014	ND	2.07	103	2.00	0.395	
Total Xylenes*	64.8	1.50	05/20/2014	ND	6.48	108	6.00	0.119	
Total BTEX	87.5	3.00	05/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 89.4-126

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	05/22/2014	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	1940	100	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	12000	100	05/23/2014	ND	224	112	200	10.1	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1940	100	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	12000	100	05/23/2014	ND	224	112	200	10.1	

Surrogate: 1-Chlorooctane 205 % 65.2-140

Surrogate: 1-Chlorooctadecane 319 % 63.6-154

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Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 1 @ 3' (H401509-03)

BTEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	05/20/2014	ND	2.17	109	2.00	0.100	
Toluene*	1.33	0.200	05/20/2014	ND	2.17	108	2.00	0.742	
Ethylbenzene*	4.10	0.200	05/20/2014	ND	2.07	103	2.00	0.395	
Total Xylenes*	16.7	0.600	05/20/2014	ND	6.48	108	6.00	0.119	
Total BTEX	22.2	1.20	05/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.0 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/22/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	624	10.0	05/22/2014	ND	201	101	200	7.89		
DRO >C10-C28	6060	10.0	05/22/2014	ND	224	112	200	10.1		

Surrogate: 1-Chlorooctane 191 % 65.2-140

Surrogate: 1-Chlorooctadecane 198 % 63.6-154

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Received:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 1 @ 4' (H401509-04)

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	05/20/2014	ND	2.17	109	2.00	0.100	
Toluene*	<0.050	0.050	05/20/2014	ND	2.17	108	2.00	0.742	
Ethylbenzene*	0.050	0.050	05/20/2014	ND	2.07	103	2.00	0.395	
Total Xylenes*	<0.150	0.150	05/20/2014	ND	6.48	108	6.00	0.119	
Total BTEX	<0.300	0.300	05/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/22/2014	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	05/22/2014	ND	201	101	200	7.89	
DRO >C10-C28	<10.0	10.0	05/22/2014	ND	224	112	200	10.1	

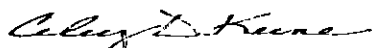
Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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Fax To: (575) 397-0397

Received:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 1 @ 5' (H401509-05)

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	05/20/2014	ND	2.17	109	2.00	0.100	
Toluene*	<0.050	0.050	05/20/2014	ND	2.17	108	2.00	0.742	
Ethylbenzene*	<0.050	0.050	05/20/2014	ND	2.07	103	2.00	0.395	
Total Xylenes*	<0.150	0.150	05/20/2014	ND	6.48	108	6.00	0.119	
Total BTEX	<0.300	0.300	05/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/22/2014	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	05/23/2014	ND	201	101	200	7.89		
DRO >C10-C28	16.9	10.0	05/23/2014	ND	224	112	200	10.1		

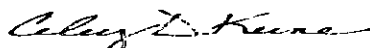
Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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Analytical Results For:

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

Received:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 2 @ 1' (H401509-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.10	0.500	05/20/2014	ND	2.17	109	2.00	0.100	
Toluene*	16.8	0.500	05/20/2014	ND	2.17	108	2.00	0.742	
Ethylbenzene*	17.9	0.500	05/20/2014	ND	2.07	103	2.00	0.395	
Total Xylenes*	77.5	1.50	05/20/2014	ND	6.48	108	6.00	0.119	
Total BTX	113	3.00	05/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	05/22/2014	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	1550	100	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	8620	100	05/23/2014	ND	224	112	200	10.1	

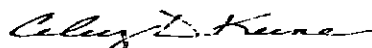
Surrogate: 1-Chlorooctane 171 % 65.2-140

Surrogate: 1-Chlorooctadecane 238 % 63.6-154

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

Received:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 2 @ 2' (H401509-07)

BTEX 8021B		mg/kg		Analyzed By: MS				5-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.11	0.200	05/21/2014	ND	2.27	114	2.00	2.21	
Toluene*	17.0	0.200	05/21/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	20.8	0.200	05/21/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	77.6	0.600	05/21/2014	ND	6.73	112	6.00	0.527	
Total BTEX	116	1.20	05/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 461 % 89.4-126

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	05/22/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				5-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1740	10.0	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	8590	10.0	05/23/2014	ND	224	112	200	10.1	

Surrogate: 1-Chlorooctane 227 % 65.2-140

Surrogate: 1-Chlorooctadecane 233 % 63.6-154

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Received:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 2 @ 3' (H401509-08)

BTEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.051	0.050	05/21/2014	ND	2.27	114	2.00	2.21	
Toluene*	1.22	0.050	05/21/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	2.83	0.050	05/21/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	9.49	0.150	05/21/2014	ND	6.73	112	6.00	0.527	
Total BTEX	13.6	0.300	05/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 95.6 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/22/2014	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	308	10.0	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	4110	10.0	05/23/2014	ND	224	112	200	10.1	

Surrogate: 1-Chlorooctane 151 % 65.2-140

Surrogate: 1-Chlorooctadecane 171 % 63.6-154

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Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 2 @ 4' (H401509-09)

BTEX 8021B		mg/kg	Analyzed By: MS					5-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2014	ND	2.27	114	2.00	2.21	
Toluene*	0.092	0.050	05/21/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	0.279	0.050	05/21/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	0.864	0.150	05/21/2014	ND	6.73	112	6.00	0.527	
Total BTEX	1.24	0.300	05/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 167 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/22/2014	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	35.0	10.0	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	1440	10.0	05/23/2014	ND	224	112	200	10.1	

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 126 % 63.6-154

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:	05/16/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 2 @ 5' (H401509-10)

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	05/21/2014	ND	2.27	114	2.00	2.21	
Toluene*	0.080	0.050	05/21/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	0.115	0.050	05/21/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	0.616	0.150	05/21/2014	ND	6.73	112	6.00	0.527	
Total BTEX	0.810	0.300	05/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/22/2014	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	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	23.3	10.0	05/23/2014	ND	224	112	200	10.1	

Surrogate: 1-Chlorooctane 103 % 65.2-110

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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

Received:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 3 @ 1' (H401509-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.57	1.00	05/22/2014	ND	2.27	114	2.00	2.21	
Toluene*	46.8	1.00	05/22/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	62.5	1.00	05/22/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	301	3.00	05/22/2014	ND	6.73	112	6.00	0.527	
Total BTEX	412	6.00	05/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/22/2014	ND	416	104	400	3.92	

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	10000	100	05/23/2014	ND	201	101	200	7.89		
DRO >C10-C28	50500	100	05/23/2014	ND	224	112	200	10.1		

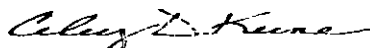
Surrogate: 1-Chlorooctane 733 % 65.2-140

Surrogate: 1-Chlorooctadecane 1290 % 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: (575) 397-0397

Received:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 3 @ 2' (H401509-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.15	1.00	05/22/2014	ND	2.27	114	2.00	2.21	
Toluene*	48.6	1.00	05/22/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	54.5	1.00	05/22/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	261	3.00	05/22/2014	ND	6.73	112	6.00	0.527	
Total BTEX	367	6.00	05/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.6 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/22/2014	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	8750	50.0	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	42700	50.0	05/23/2014	ND	224	112	200	10.1	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	8750	50.0	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	42700	50.0	05/23/2014	ND	224	112	200	10.1	

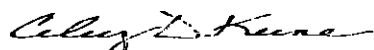
Surrogate: 1-Chlorooctane 627 % 65.2-140

Surrogate: 1-Chlorooctadecane 1160 % 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: (575) 397-0397

Received:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 3 @ 3' (H401509-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	05/22/2014	ND	2.27	114	2.00	2.21	
Toluene*	26.3	1.00	05/22/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	32.8	1.00	05/22/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	153	3.00	05/22/2014	ND	6.73	112	6.00	0.527	
Total BTEX	212	6.00	05/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/22/2014	ND	400	100	400	0.00	

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	4520	50.0	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	22200	50.0	05/23/2014	ND	224	112	200	10.1	

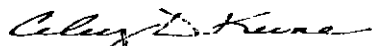
Surrogate: 1-Chlorooctane 286 % 63.2-140

Surrogate: 1-Chlorooctadecane 554 % 63.6-154

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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:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 3 @ 4' (H401509-14)

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	05/22/2014	ND	2.27	114	2.00	2.21	
Toluene*	<0.050	0.050	05/22/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	0.071	0.050	05/22/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	0.274	0.150	05/22/2014	ND	6.73	112	6.00	0.527	
Total BTEX	0.345	0.300	05/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

Chloride, SM4500Cl-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	05/22/2014	ND	400	100	400	0.00	
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	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	31.4	10.0	05/23/2014	ND	224	112	200	10.1	

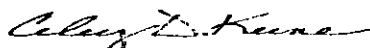
Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 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: (575) 397-0397

Received:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 3 @ 5' (H401509-15)

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	05/22/2014	ND	2.27	114	2.00	2.21	
Toluene*	0.675	0.050	05/22/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	0.648	0.050	05/22/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	3.98	0.150	05/22/2014	ND	6.73	112	6.00	0.527	
Total BTEX	5.30	0.300	05/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 124 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/22/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	40.1	10.0	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	73.2	10.0	05/23/2014	ND	224	112	200	10.1	

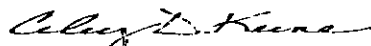
Surrogate: 1-Chlorooctane 98.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.0 % 63.6-154

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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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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ORDINAL LABORATORIES
1101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

1101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

[illegible]

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

#54

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	CJ Summers
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	Cypress 28 Federal #3H Battery	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
		API No. 30-015-38287 (nearest well)	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	28	23S	29E					Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	40 bbls oil, 20 bbls produced water	Volume Recovered	50 bbls
Source of Release	Internal corrosion on 2" steel transfer line off the back of skim tank	Date and Hour of Occurrence	04/14/14	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-NMOCD; Jennifer Van Curen-BLM			
By Whom?	Kathy Purvis, BBC International	Date and Hour	04/14/14 @ 3:39 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.*

RECEIVED
AUG 12 2014
NMOCD ARTESIA

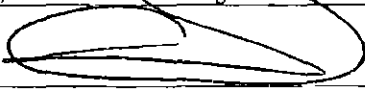
Describe Cause of Problem and Remedial Action Taken.*

Internal corrosion on a 2" steel transfer line off the back of the skim tank caused 40 bbls of oil and 20 bbls of produced water to leak onto the ground. A vacuum truck recovered 50 bbls of fluids and the line was repaired or replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 30' x 30' on location. Remediation will be performed in accordance with a plan approved by NMOCD and BLM.

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.

Signature: 	OIL CONSERVATION DIVISION		
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: 4-15-14	Phone: (575) 397-8216		

* Attach Additional Sheets If Necessary