

# Closure Report

## Site Description

Site Name:	NHU Satellite #24 TL
Company:	Oxy USA Inc.
Legal Description:	U/L G, Section 25, T18S, R37E
County:	Lea County, NM
GPS Coordinates:	N 32.71872° W 103.20012°

## Release Data

Date of Release:	07/18/2016
Type of Release:	Oil and produced water
Source of Release:	3 <sup>rd</sup> party crew hit a trunk line
Volume of Release:	2 bbls oil, 128 bbls produced water
Volume Recovered:	120 bbls produced water

## Remediation Specifications

Remediation Parameters:	In the areas near SP1, SP2, and SP6, the excavation will be a surface scrape (6 inches). In the area of SP5, the excavation will be 1.5 feet. In the area near SP3 and SP4, the excavation will be 3 feet. The entire site will then be backfilled with clean soil. All excavated materials will be disposed of at Sundance.	
Remediation Activities:	12/05/2016 to 12/20/2016	
Plan Sent to OCD:	11/01/2016	Email from Cliff Brunson to Kristen Lynch
OCD Approval of Plan:	11/22/2016	Email from Kristen Lynch to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

## Supporting Documentation

Initial C-141	Signed 08/09/2016
Final C-141	Signed 01/07/2017
Site Diagram	August 2016
Groundwater Plot	<50'
TOPO Maps	August 2016
Lab Summary	08/15/2016-08/17/2016 and 09/12/2016
Lab Analysis	08/15/2016-08/17/2016 and 09/12/2016
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.

01/10/2016

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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

Form C-141  
Revised August 8, 2011

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy USA Inc.	Contact	Matthew Ledesma
Address	3145 W State Rd #114, Levelland, TX 79336	Telephone No.	(806) 893-2811
Facility Name	NHU Satellite #24 TL	Facility Type	Satellite
Surface Owner	Oxy	Mineral Owner	
		API No.	30-025-29062

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	25	18S	37E					Lea County, NM

Latitude N 32.71872° Longitude W 103.20012°

**NATURE OF RELEASE**

Type of Release	Oil and Produced water	Volume of Release	2 bbls oil, 128 bbls produced water	Volume Recovered	120 bbls produced water
Source of Release	A third party construction crew hit an 8" fiberglass production trunk line	Date and Hour of Occurrence	07/18/2016	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?	Jamie Keyes-NMOCD		
By Whom?	Tony Aguilar - Oxy	Date and Hour	07/18/2016 @ 12:13 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 third party construction crew struck an 8" fiberglass production trunk line causing 2 bbls of oil and 128 bbls of produced water to spill. The line was repaired and a vacuum truck recovered 120 bbls of produced water.

Describe Area Affected and Cleanup Action Taken.\*

The area affected is approximately 300' x 400' both on and off location. Remediation will be completed in accordance with a remediation plan approved by NMOCD.

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: Matthew Ledesma	Approved by Environmental Specialist:		
Title: HES Ops Specialist	Approval Date:	Expiration Date:	
E-mail Address: Matthew.Ledesma@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8-9-16	Phone: (806) 893-2811		

\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
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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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy USA Inc.	Contact	Matthew Ledesma
Address	3145 W State Rd #114, Levelland, TX 79336	Telephone No.	(806) 893-2811
Facility Name	NHU Satellite #24 TL	Facility Type	Satellite
Surface Owner	Oxy	Mineral Owner	
		API No.	30-025-29062

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	25	18S	37E					Lea County, NM

Latitude N 32.71872° Longitude W 103.20012°

**NATURE OF RELEASE**

Type of Release	Oil and Produced water	Volume of Release	2 bbls oil, 128 bbls produced water	Volume Recovered	120 bbls produced water
Source of Release	A third party construction crew hit an 8" fiberglass production trunk line	Date and Hour of Occurrence	07/18/2016	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? Jamie Keyes-NMOCD			
By Whom?	Tony Aguilar - Oxy	Date and Hour	07/18/2016 @ 12:13 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 third party construction crew struck an 8" fiberglass production trunk line causing 2 bbls of oil and 128 bbls of produced water to spill. The line was repaired and a vacuum truck recovered 120 bbls of produced water.

Describe Area Affected and Cleanup Action Taken.\*

The area affected is approximately 300' x 400' both on and off location. Remediation was completed in accordance with the remediation plan approved by Kristen Lynch of NMOCD via email on 11/22/2016.

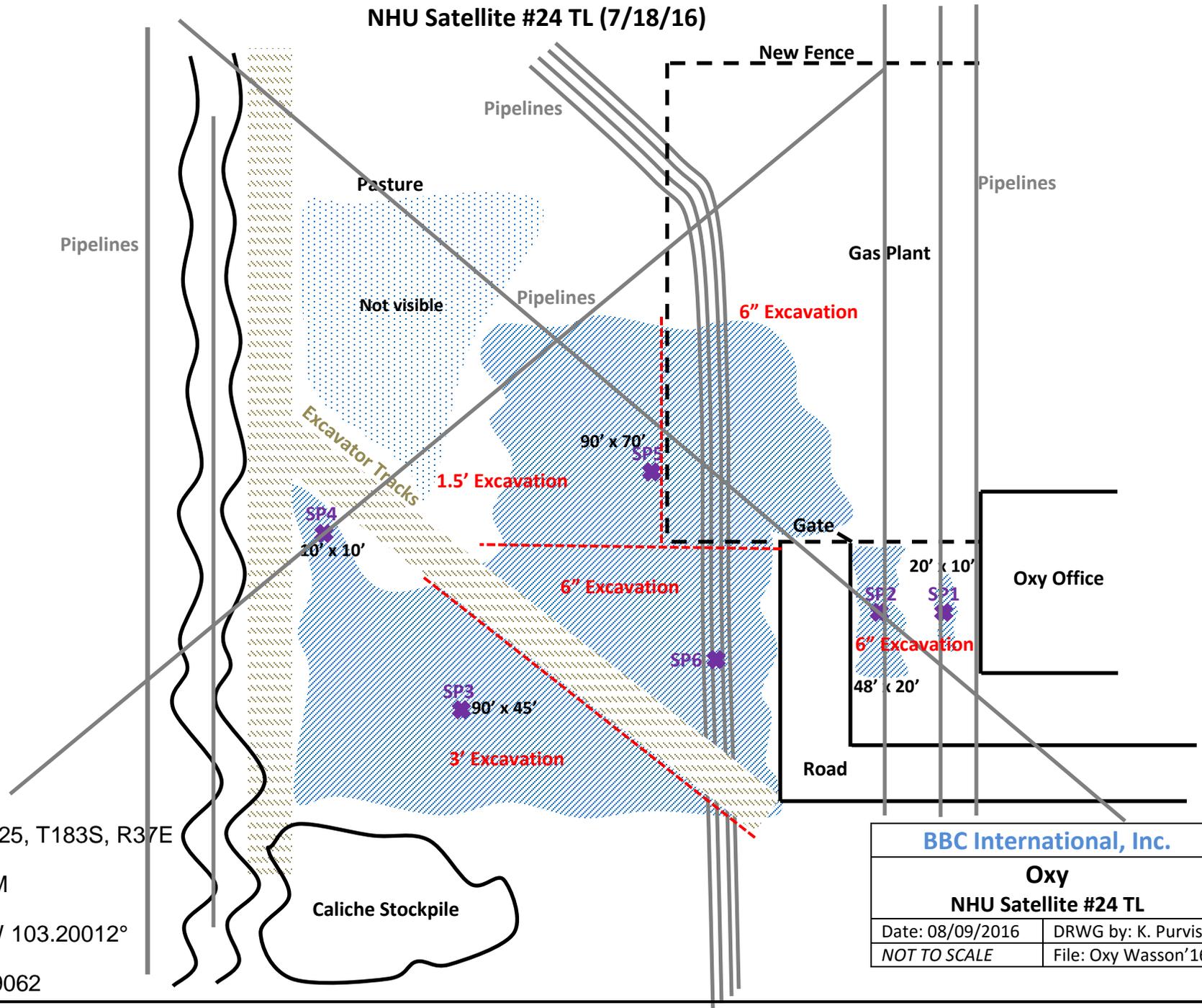
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Matthew Ledesma	Jocelyn Harimon	
Title: HES Ops Specialist	Approved by Environmental Specialist:	
E-mail Address: Matthew_Ledesma@oxy.com	Approval Date: 04/12/2023	Expiration Date:
Date: 1/9/17 Phone: (806) 893-2811	Conditions of Approval: None	Attached <input type="checkbox"/>

\* Attach Additional Sheets If Necessary



# Oxy NHU Satellite #24 TL (7/18/16)



U/L G, Section 25, T183S, R37E

Lea County, NM

N 32.71872° W 103.20012°

API# 30-025-29062

**BBC International, Inc.**

**Oxy  
NHU Satellite #24 TL**

Date: 08/09/2016	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy Wasson'16



Section Quarters

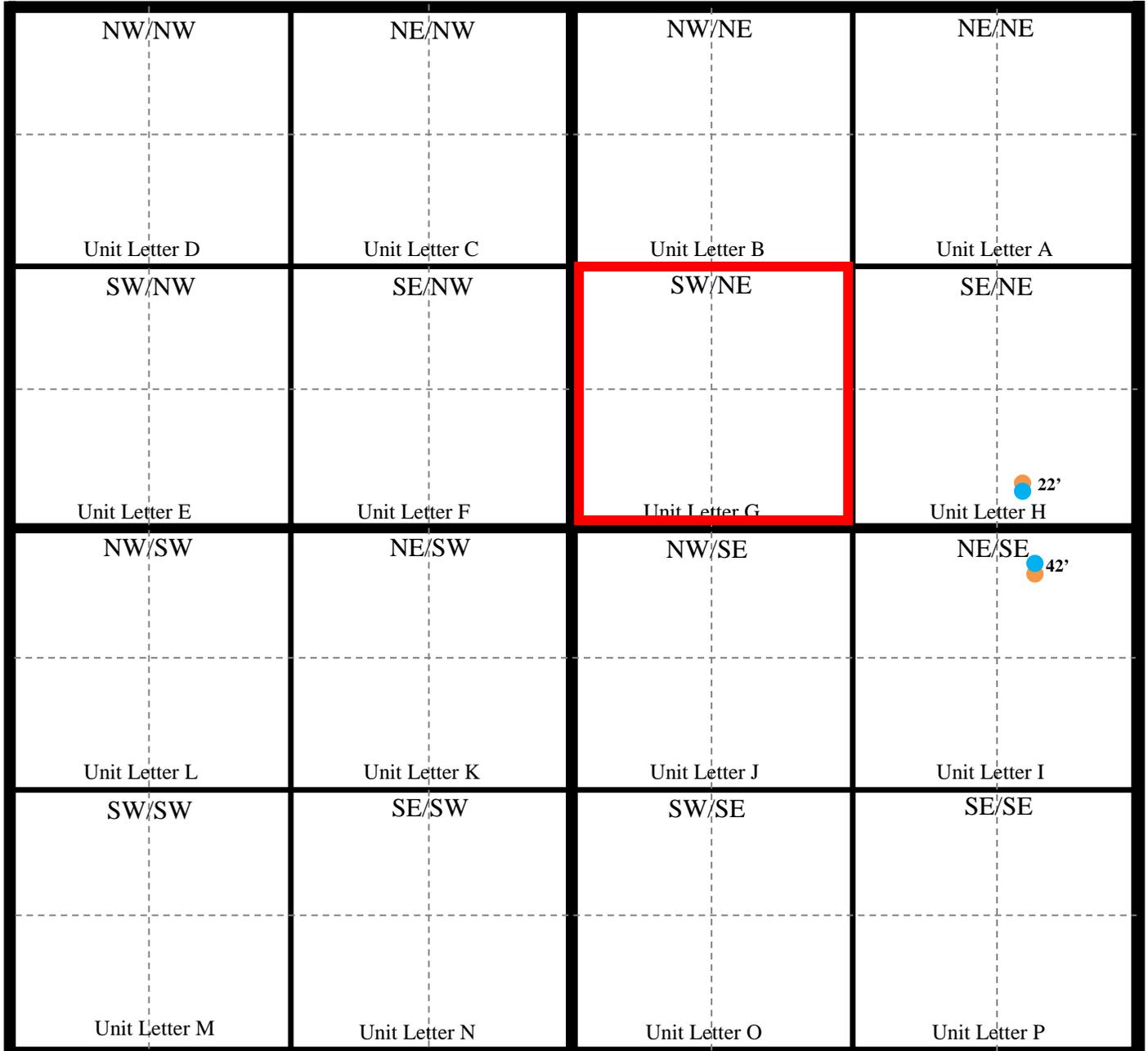
Oxy NHU Satellite #24 TL

<b>County</b>	<b>Unit Letter</b>	<b>Section</b>	<b>Township</b>	<b>Range</b>
Lea	G	25	18S	37E

Trend Map <50'

1

2

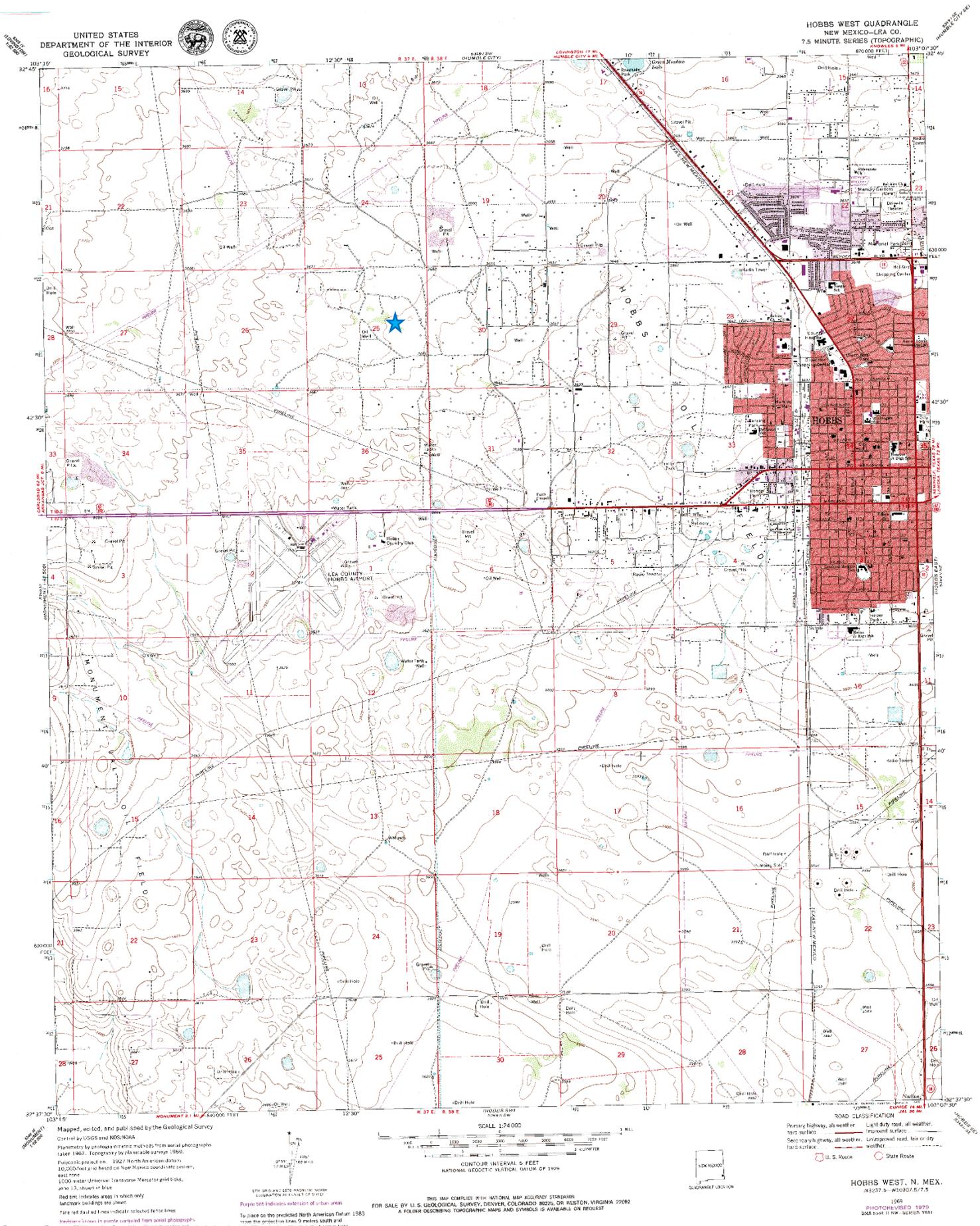


3

4

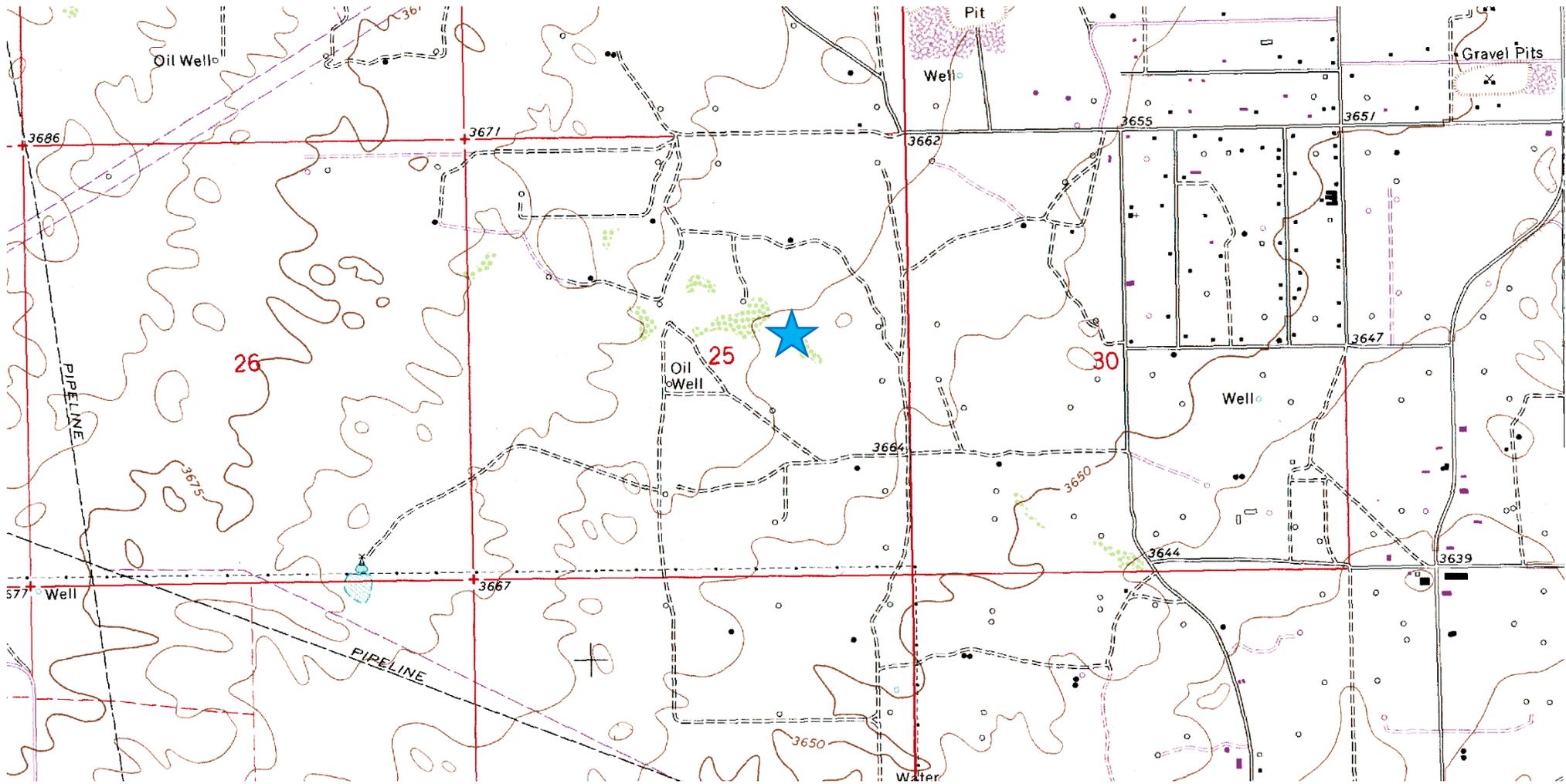
\* Location     
 ● OCD     
 ● USGS     
 ● SEO     
 ● All Databases

# NHU Satellite #24 TL



# Oxy

## NHU Satellite #24 TL



Laboratory Analytical Results Summary  
NHU Satellite #24 Trunkline

Analyte	Method	Sample Date	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
			8/15/16	8/15/16	8/15/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	n/a	<0.300
Chloride	SM4500CI-B		1380	48	64
GRO	TPH 8015M		<10.0	n/a	<10.0
DRO	TPH 8015M		32.5	n/a	<10.0

Analyte	Method	Sample Date	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 2.5'
			8/15/16	8/15/16	8/15/16	8/15/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	<0.300
Chloride	SM4500CI-B		1570	800	112	64
GRO	TPH 8015M		<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		148	n/a	n/a	38.1

Analyte	Method	Sample Date	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
			8/15/16	8/15/16	8/15/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	n/a	<0.300
Chloride	SM4500CI-B		1460	64	48
GRO	TPH 8015M		<10.0	n/a	<10.0
DRO	TPH 8015M		14.6	n/a	<10.0

Analyte	Method	Sample Date	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'
			8/17/16	8/17/16	8/17/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	n/a	<0.050
Toluene	BTEX 8021B		0.243	n/a	<0.050
Ethylbenzene	BTEX 8021B		0.408	n/a	<0.050
Total Xylenes	BTEX 8021B		2.42	n/a	<0.150
Total BTEX	BTEX 8021B		3.07	n/a	<0.300
Chloride	SM4500CI-B		2080	192	48
GRO	TPH 8015M		<200	n/a	<10.0
DRO	TPH 8015M		37800	n/a	<10.0

Analyte	Method	Sample Date	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 2.5'	SP3 @ 3.5'
			8/15/16	8/15/16	8/15/16	8/15/16	9/12/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	<0.050	<0.050
Toluene	BTEX 8021B		0.098	n/a	n/a	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.322	n/a	n/a	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.3	n/a	n/a	<0.150	<0.150
Total BTEX	BTEX 8021B		1.72	n/a	n/a	<0.300	<0.300
Chloride	SM4500CI-B		2880	432	144	160	16
GRO	TPH 8015M		228	n/a	n/a	<100	<10.0
DRO	TPH 8015M		45400	n/a	n/a	4710	<10.0

Analyte	Method	Sample Date	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 2.5'	SP4 @ 3'
			8/15/16	8/15/16	8/15/16	8/15/16	9/12/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.500	n/a	n/a	<0.050	<0.050
Toluene	BTEX 8021B		<0.500	n/a	n/a	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.500	n/a	n/a	<0.050	<0.050
Total Xylenes	BTEX 8021B		<1.50	n/a	n/a	<0.150	<0.150
Total BTEX	BTEX 8021B		<3.00	n/a	n/a	<0.300	<0.300
Chloride	SM4500CI-B		2560	400	112	176	16
GRO	TPH 8015M		248	n/a	n/a	<100	<10.0
DRO	TPH 8015M		43100	n/a	n/a	4880	<10.0



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

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August 25, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NHU SATELLITE #24 TL

Enclosed are the results of analyses for samples received by the laboratory on 08/19/16 11:30.

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

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/19/2016	Sampling Date:	08/15/2016
Reported:	08/25/2016	Sampling Type:	Soil
Project Name:	NHU SATELLITE #24 TL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	HOBBS, NM		

**Sample ID: SP 1 @ SURFACE (H601872-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2016	ND	2.34	117	2.00	0.544	
Toluene*	<0.050	0.050	08/21/2016	ND	2.38	119	2.00	0.515	
Ethylbenzene*	<0.050	0.050	08/21/2016	ND	2.27	113	2.00	0.249	
Total Xylenes*	<0.150	0.150	08/21/2016	ND	6.88	115	6.00	0.246	
Total BTEX	<0.300	0.300	08/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	08/23/2016	ND	416	104	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	08/19/2016	ND	214	107	200	2.60	
DRO >C10-C28	32.5	10.0	08/19/2016	ND	230	115	200	4.12	

Surrogate: 1-Chlorooctane 75.0 % 35-147

Surrogate: 1-Chlorooctadecane 89.0 % 28-171

**Sample ID: SP 1 @ 1' (H601872-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2016	ND	416	104	400	0.00	

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



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

**Analytical Results For:**

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

Received:	08/19/2016	Sampling Date:	08/15/2016
Reported:	08/25/2016	Sampling Type:	Soil
Project Name:	NHU SATELLITE #24 TL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	HOBBS, NM		

**Sample ID: SP 1 @ 2' (H601872-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2016	ND	2.34	117	2.00	0.544	
Toluene*	<0.050	0.050	08/21/2016	ND	2.38	119	2.00	0.515	
Ethylbenzene*	<0.050	0.050	08/21/2016	ND	2.27	113	2.00	0.249	
Total Xylenes*	<0.150	0.150	08/21/2016	ND	6.88	115	6.00	0.246	
Total BTEX	<0.300	0.300	08/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/23/2016	ND	416	104	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	08/23/2016	ND	214	107	200	0.125	
DRO >C10-C28	<10.0	10.0	08/23/2016	ND	217	108	200	4.78	

Surrogate: 1-Chlorooctane 64.2 % 35-147

Surrogate: 1-Chlorooctadecane 70.4 % 28-171

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



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

**Analytical Results For:**

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

Received:	08/19/2016	Sampling Date:	08/15/2016
Reported:	08/25/2016	Sampling Type:	Soil
Project Name:	NHU SATELLITE #24 TL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	HOBBS, NM		

**Sample ID: SP 2 @ SURFACE (H601872-04)**

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	08/21/2016	ND	2.34	117	2.00	0.544	
Toluene*	<0.050	0.050	08/21/2016	ND	2.38	119	2.00	0.515	
Ethylbenzene*	<0.050	0.050	08/21/2016	ND	2.27	113	2.00	0.249	
Total Xylenes*	<0.150	0.150	08/21/2016	ND	6.88	115	6.00	0.246	
Total BTEX	<0.300	0.300	08/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1460</b>	16.0	08/23/2016	ND	416	104	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	08/23/2016	ND	214	107	200	0.125	
<b>DRO &gt;C10-C28</b>	<b>14.6</b>	10.0	08/23/2016	ND	217	108	200	4.78	

Surrogate: 1-Chlorooctane 47.0 % 35-147

Surrogate: 1-Chlorooctadecane 53.2 % 28-171

**Sample ID: SP 2 @ 1' (H601872-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	08/23/2016	ND	416	104	400	0.00	

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/19/2016	Sampling Date:	08/15/2016
Reported:	08/25/2016	Sampling Type:	Soil
Project Name:	NHU SATELLITE #24 TL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	HOBBS, NM		

**Sample ID: SP 2 @ 2' (H601872-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2016	ND	2.34	117	2.00	0.544	
Toluene*	<0.050	0.050	08/21/2016	ND	2.38	119	2.00	0.515	
Ethylbenzene*	<0.050	0.050	08/21/2016	ND	2.27	113	2.00	0.249	
Total Xylenes*	<0.150	0.150	08/21/2016	ND	6.88	115	6.00	0.246	
Total BTEX	<0.300	0.300	08/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2016	ND	416	104	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	08/23/2016	ND	214	107	200	0.125	
DRO >C10-C28	<10.0	10.0	08/23/2016	ND	217	108	200	4.78	

Surrogate: 1-Chlorooctane 81.8 % 35-147

Surrogate: 1-Chlorooctadecane 87.4 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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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:	08/19/2016	Sampling Date:	08/15/2016
Reported:	08/25/2016	Sampling Type:	Soil
Project Name:	NHU SATELLITE #24 TL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	HOBBS, NM		

**Sample ID: SP 3 @ SURFACE (H601872-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2016	ND	2.34	117	2.00	0.544	
<b>Toluene*</b>	<b>0.098</b>	0.050	08/22/2016	ND	2.38	119	2.00	0.515	
<b>Ethylbenzene*</b>	<b>0.322</b>	0.050	08/22/2016	ND	2.27	113	2.00	0.249	
<b>Total Xylenes*</b>	<b>1.30</b>	0.150	08/22/2016	ND	6.88	115	6.00	0.246	
<b>Total BTEX</b>	<b>1.72</b>	0.300	08/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2880</b>	16.0	08/23/2016	ND	416	104	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	
<b>GRO C6-C10</b>	<b>228</b>	200	08/23/2016	ND	214	107	200	0.125		
<b>DRO &gt;C10-C28</b>	<b>45400</b>	200	08/23/2016	ND	217	108	200	4.78		

Surrogate: 1-Chlorooctane 132 % 35-147

Surrogate: 1-Chlorooctadecane 513 % 28-171

**Sample ID: SP 3 @ 1' (H601872-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>432</b>	16.0	08/23/2016	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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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:	08/19/2016	Sampling Date:	08/15/2016
Reported:	08/25/2016	Sampling Type:	Soil
Project Name:	NHU SATELLITE #24 TL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	HOBBS, NM		

**Sample ID: SP 3 @ 1' (H601872-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	08/23/2016	ND	416	104	400	0.00	

**Sample ID: SP 3 @ 2.5' (H601872-10)**

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	08/21/2016	ND	2.34	117	2.00	0.544	
Toluene*	<0.050	0.050	08/21/2016	ND	2.38	119	2.00	0.515	
Ethylbenzene*	<0.050	0.050	08/21/2016	ND	2.27	113	2.00	0.249	
Total Xylenes*	<0.150	0.150	08/21/2016	ND	6.88	115	6.00	0.246	
Total BTEX	<0.300	0.300	08/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	08/24/2016	ND	400	100	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	<100	100	08/23/2016	ND	214	107	200	0.125		
<b>DRO &gt;C10-C28</b>	<b>4710</b>	100	08/23/2016	ND	217	108	200	4.78		

Surrogate: 1-Chlorooctane 67.8 % 35-147

Surrogate: 1-Chlorooctadecane 200 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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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:	08/19/2016	Sampling Date:	08/15/2016
Reported:	08/25/2016	Sampling Type:	Soil
Project Name:	NHU SATELLITE #24 TL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	HOBBS, NM		

**Sample ID: SP 4 @ SURFACE (H601872-11)**

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	08/21/2016	ND	2.34	117	2.00	0.544	
Toluene*	<0.500	0.500	08/21/2016	ND	2.38	119	2.00	0.515	
Ethylbenzene*	<0.500	0.500	08/21/2016	ND	2.27	113	2.00	0.249	
Total Xylenes*	<1.50	1.50	08/21/2016	ND	6.88	115	6.00	0.246	
Total BTEX	<3.00	3.00	08/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2560</b>	16.0	08/24/2016	ND	400	100	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	
<b>GRO C6-C10</b>	<b>248</b>	200	08/23/2016	ND	214	107	200	0.125		
<b>DRO &gt;C10-C28</b>	<b>43100</b>	200	08/23/2016	ND	217	108	200	4.78		

Surrogate: 1-Chlorooctane 144 % 35-147

Surrogate: 1-Chlorooctadecane 494 % 28-171

**Sample ID: SP 4 @ 1' (H601872-12)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>400</b>	16.0	08/24/2016	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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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:	08/19/2016	Sampling Date:	08/15/2016
Reported:	08/25/2016	Sampling Type:	Soil
Project Name:	NHU SATELLITE #24 TL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	HOBBS, NM		

**Sample ID: SP 4 @ 2' (H601872-13)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	08/24/2016	ND	400	100	400	3.92	

**Sample ID: SP 4 @ 2.5' (H601872-14)**

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	08/21/2016	ND	2.34	117	2.00	0.544	
Toluene*	<0.050	0.050	08/21/2016	ND	2.38	119	2.00	0.515	
Ethylbenzene*	<0.050	0.050	08/21/2016	ND	2.27	113	2.00	0.249	
Total Xylenes*	<0.150	0.150	08/21/2016	ND	6.88	115	6.00	0.246	
Total BTEX	<0.300	0.300	08/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>176</b>	16.0	08/24/2016	ND	400	100	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	<100	100	08/23/2016	ND	214	107	200	0.125		
<b>DRO &gt;C10-C28</b>	<b>4880</b>	100	08/23/2016	ND	217	108	200	4.78		

Surrogate: 1-Chlorooctane 71.5 % 35-147

Surrogate: 1-Chlorooctadecane 206 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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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:	08/19/2016	Sampling Date:	08/15/2016
Reported:	08/25/2016	Sampling Type:	Soil
Project Name:	NHU SATELLITE #24 TL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	HOBBS, NM		

**Sample ID: SP 5 @ SURFACE (H601872-15)**

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	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTEX	<0.300	0.300	08/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1570</b>	16.0	08/24/2016	ND	400	100	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	08/23/2016	ND	214	107	200	0.125	
<b>DRO &gt;C10-C28</b>	<b>148</b>	10.0	08/23/2016	ND	217	108	200	4.78	

Surrogate: 1-Chlorooctane 69.0 % 35-147

Surrogate: 1-Chlorooctadecane 88.1 % 28-171

**Sample ID: SP 5 @ 1' (H601872-16)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>800</b>	16.0	08/24/2016	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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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:	08/19/2016	Sampling Date:	08/15/2016
Reported:	08/25/2016	Sampling Type:	Soil
Project Name:	NHU SATELLITE #24 TL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	HOBBS, NM		

**Sample ID: SP 5 @ 2' (H601872-17)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	08/24/2016	ND	400	100	400	3.92	

**Sample ID: SP 5 @ 2.5' (H601872-18)**

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	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTEX	<0.300	0.300	08/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	08/24/2016	ND	400	100	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	08/23/2016	ND	214	107	200	0.125	
<b>DRO &gt;C10-C28</b>	<b>38.1</b>	10.0	08/23/2016	ND	217	108	200	4.78	

Surrogate: 1-Chlorooctane 76.2 % 35-147

Surrogate: 1-Chlorooctadecane 85.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/19/2016	Sampling Date:	08/17/2016
Reported:	08/25/2016	Sampling Type:	Soil
Project Name:	NHU SATELLITE #24 TL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	HOBBS, NM		

**Sample ID: SP 6 @ SURFACE (H601872-19)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/24/2016	ND	2.37	118	2.00	1.51	
<b>Toluene*</b>	<b>0.243</b>	0.100	08/24/2016	ND	2.37	118	2.00	1.94	
<b>Ethylbenzene*</b>	<b>0.408</b>	0.100	08/24/2016	ND	2.22	111	2.00	2.56	
<b>Total Xylenes*</b>	<b>2.42</b>	0.300	08/24/2016	ND	6.71	112	6.00	2.61	
<b>Total BTEX</b>	<b>3.07</b>	0.600	08/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2080</b>	16.0	08/24/2016	ND	400	100	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	<200	200	08/23/2016	ND	214	107	200	0.125		
<b>DRO &gt;C10-C28</b>	<b>37800</b>	200	08/23/2016	ND	217	108	200	4.78		

Surrogate: 1-Chlorooctane 104 % 35-147

Surrogate: 1-Chlorooctadecane 447 % 28-171

**Sample ID: SP 6 @ 1' (H601872-20)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>192</b>	16.0	08/24/2016	ND	400	100	400	3.92	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/19/2016	Sampling Date:	08/17/2016
Reported:	08/25/2016	Sampling Type:	Soil
Project Name:	NHU SATELLITE #24 TL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	HOBBS, NM		

**Sample ID: SP 6 @ 2' (H601872-21)**

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	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTEX	<0.300	0.300	08/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/24/2016	ND	400	100	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	08/23/2016	ND	214	107	200	0.125	
DRO >C10-C28	<10.0	10.0	08/23/2016	ND	217	108	200	4.78	

Surrogate: 1-Chlorooctane 63.9 % 35-147

Surrogate: 1-Chlorooctadecane 73.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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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.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc.  
 Project Manager: Cliff Brunson  
 Address: P.O. Box 805  
 City: Hobbs State: NM Zip: 88241  
 Phone #: 575-397-6388 Fax #: 575-397-0397  
 Project #: Project Owner: OXY  
 Project Name: NHD - Satellite #2972  
 Project Location: Hobbs area  
 Sampler Name: K.D.  
 P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	C/-
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H00187A	SP105R	G-1	1	X	X	X	X	X	X	8-15	8:10	X	X	X
	SP205R	G-1	1	X	X	X	X	X	X	8-15	8:37	X	X	X
	SP205R	G-1	1	X	X	X	X	X	X	8-15	9:11	X	X	X
	SP205R	G-1	1	X	X	X	X	X	X	8-15	9:45	X	X	X
	SP305R	G-1	1	X	X	X	X	X	X	8-15	10:00	X	X	X
	SP305R	G-1	1	X	X	X	X	X	X	8-15	10:25	X	X	X
	SP305R	G-1	1	X	X	X	X	X	X	8-15	10:45	X	X	X
	SP305R	G-1	1	X	X	X	X	X	X	8-15	11:21	X	X	X
	SP305R	G-1	1	X	X	X	X	X	X	8-15	11:50	X	X	X
	SP305R	G-1	1	X	X	X	X	X	X	8-15	12:05	X	X	X

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Relinquished By: [Signature] Date: 8-19-16  
 Received By: [Signature] Date: 8-19-16  
 Relinquished By: [Signature] Date: 8-19-16  
 Received By: [Signature] Date: 8-19-16

Delivered By: Circle One  
 Sampler - UPS - Bus - Other: 4.20c  
 Sample Condition: Intact Yes No  
 Checked By: [Signature] (initials) WDH #75

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

Phone Result: Yes No Add'l Phone #:  
 Fax Result: Yes No Add'l Fax #:  
 REMARKS:

1/3





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3/3

Company Name: BBC International, Inc. **BILL TO** ANALYSIS REQUEST

Project Manager: Cliff Brunson P.O. #: \_\_\_\_\_ Company: \_\_\_\_\_

Address: P.O. Box 805 State: NM zip: 88241 Attn: \_\_\_\_\_

City: Hobbs Phone #: 575-397-6388 Fax #: 575-397-0397 Address: \_\_\_\_\_

Project #: \_\_\_\_\_ Project Owner: *DRY* City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Project Name: *WHA-5-5-11-16-29-12* Phone #: \_\_\_\_\_

Project Location: *Hobbs* Fax #: \_\_\_\_\_

Sampler Name: *V.O.D*

FOR LAB USE ONLY

Lab I.D. *H601872-* Sample I.D. *sp6e2* (G)RAB OR (C)OMP. *G-1*

MATRIX	PRESERV		SAMPLING
	DATE	TIME	
GROUNDWATER			
WASTEWATER			
SOIL	<input checked="" type="checkbox"/>		
OIL			
SLUDGE			
OTHER :			
ACID/BASE:			
ICE / COOL	<input checked="" type="checkbox"/>		
OTHER :			

Relinquished By: *[Signature]* Received By: *[Signature]*

Relinquished By: *[Signature]* Received By: *[Signature]*

Delivered By: *[Signature]* (Circle One) Sample Condition:  Intact  Broken

Sampler - UPS - Bus - Other: *4.2°C* CHECKED BY: *[Signature]* (Initials) *cdk #75*

Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_

Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_

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---

September 19, 2016

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

RE: NHU SATELLITE #24 TL

Enclosed are the results of analyses for samples received by the laboratory on 09/13/16 10:25.

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

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/13/2016	Sampling Date:	09/12/2016
Reported:	09/19/2016	Sampling Type:	Soil
Project Name:	NHU SATELLITE #24 TL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM		

**Sample ID: SP 3 @ 3.5' (H602041-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2016	ND	2.01	101	2.00	0.0950	
Toluene*	<0.050	0.050	09/15/2016	ND	2.04	102	2.00	0.0251	
Ethylbenzene*	<0.050	0.050	09/15/2016	ND	1.95	97.3	2.00	0.114	
Total Xylenes*	<0.150	0.150	09/15/2016	ND	5.85	97.6	6.00	0.135	
Total BTEX	<0.300	0.300	09/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/14/2016	ND	432	108	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	09/16/2016	ND	203	102	200	0.675	
DRO >C10-C28	<10.0	10.0	09/16/2016	ND	205	102	200	4.17	

Surrogate: 1-Chlorooctane 89.0 % 35-147

Surrogate: 1-Chlorooctadecane 93.0 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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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:	09/13/2016	Sampling Date:	09/12/2016
Reported:	09/19/2016	Sampling Type:	Soil
Project Name:	NHU SATELLITE #24 TL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM		

**Sample ID: SP 4 @ 3' (H602041-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2016	ND	2.17	109	2.00	1.46	
Toluene*	<0.050	0.050	09/16/2016	ND	2.22	111	2.00	1.09	
Ethylbenzene*	<0.050	0.050	09/16/2016	ND	2.13	106	2.00	1.02	
Total Xylenes*	<0.150	0.150	09/16/2016	ND	6.39	107	6.00	0.838	
Total BTEX	<0.300	0.300	09/16/2016	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/14/2016	ND	432	108	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	09/16/2016	ND	203	102	200	0.675	
DRO >C10-C28	<10.0	10.0	09/16/2016	ND	205	102	200	4.17	

Surrogate: 1-Chlorooctane 80.8 % 35-147

Surrogate: 1-Chlorooctadecane 86.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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 (505) 393-2326 FAX (505) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc.		P.O. #:	
Project Manager: Cliff Brunson		Company:	
Address: P.O. Box 805		Attn:	
City: Hobbs		Address:	
Phone #: 575-397-6388		State: NM Zip: 88241	
Project #:		Project Owner: OKY	
Project Name: NEW SAT # 24 TL		City:	
Project Location: Hobbs, NM		State: Zip:	
Sampler Name: JEFF DONELAS		Phone #:	
FOR LAB USE ONLY		Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	TPH	BTEX	CL-
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	Q.OTHER :					
H002041	SP3 @ 3.5'		1										9-2-16	3:00	V	V	V
	SP4 @ 3.5'		1										9-2-16	3:45	V	V	V

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Relinquished By: *Roger Hernandez* Date: *9-1-16* Received By: *Jeff Donelas* Phone Result:  Yes  No Add'l Phone #:

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Fax Result:  Yes  No Add'l Fax #:

Delivered By: (Circle One)  UPS  Bus  Other: \_\_\_\_\_ Sample Condition:  Cool  Intact  Yes  No  Yes  No

Sampler - UPS - Bus - Other: *2.79* CHECKED BY: *[Signature]*

REMARKS: *#75*

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

**From:** Lynch, Kristen, EMNRD  
**To:** [Cliff Brunson](#)  
**Cc:** [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#); [matthew\\_ledesma@oxy.com](mailto:matthew_ledesma@oxy.com)  
**Subject:** RE: Oxy - NHU Satellite #24 TL - Remediation Plan  
**Date:** Tuesday, November 22, 2016 2:39:12 PM

---

NMOCD approves this workplan.

*Kristen D. Lynch  
Environmental Specialist, District 1  
Oil Conservation Division, EMNRD  
(575) 393-3896 ext. 111  
575-370-3180 (emergency-cell)*

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.

---

**From:** Cliff Brunson [mailto:[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)]  
**Sent:** Tuesday, November 01, 2016 11:56 AM  
**To:** Lynch, Kristen, EMNRD  
**Cc:** Ken Swinney; Jennifer Gilkey; Kathy Purvis; [matthew\\_ledesma@oxy.com](mailto:matthew_ledesma@oxy.com)  
**Subject:** Oxy - NHU Satellite #24 TL - Remediation Plan

Kristen,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY NHU Satellite #24 TL release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this 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](mailto:cbrunson@bbcinternational.com)



\*\*\*\*\*

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 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 196522

**CONDITIONS**

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 196522
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

**CONDITIONS**

Created By	Condition	Condition Date
jharimon	None	4/12/2023