



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

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## OXY – NHU SATELLITE #32 WEST

### REMEDIATION PLAN

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OXY will excavate the spill area as depicted on the following site diagram. In the area near SP1, SP2, SP3, and SP4, the excavation will be 2 feet. In the area near SP5 and SP6, the excavation will be 1 foot. The entire site will be backfilled with clean soil.

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

CONDITIONALLY  
**APPROVED**

Cliff,

After review of your work plan NMOCD approves the following work plan with conditions:

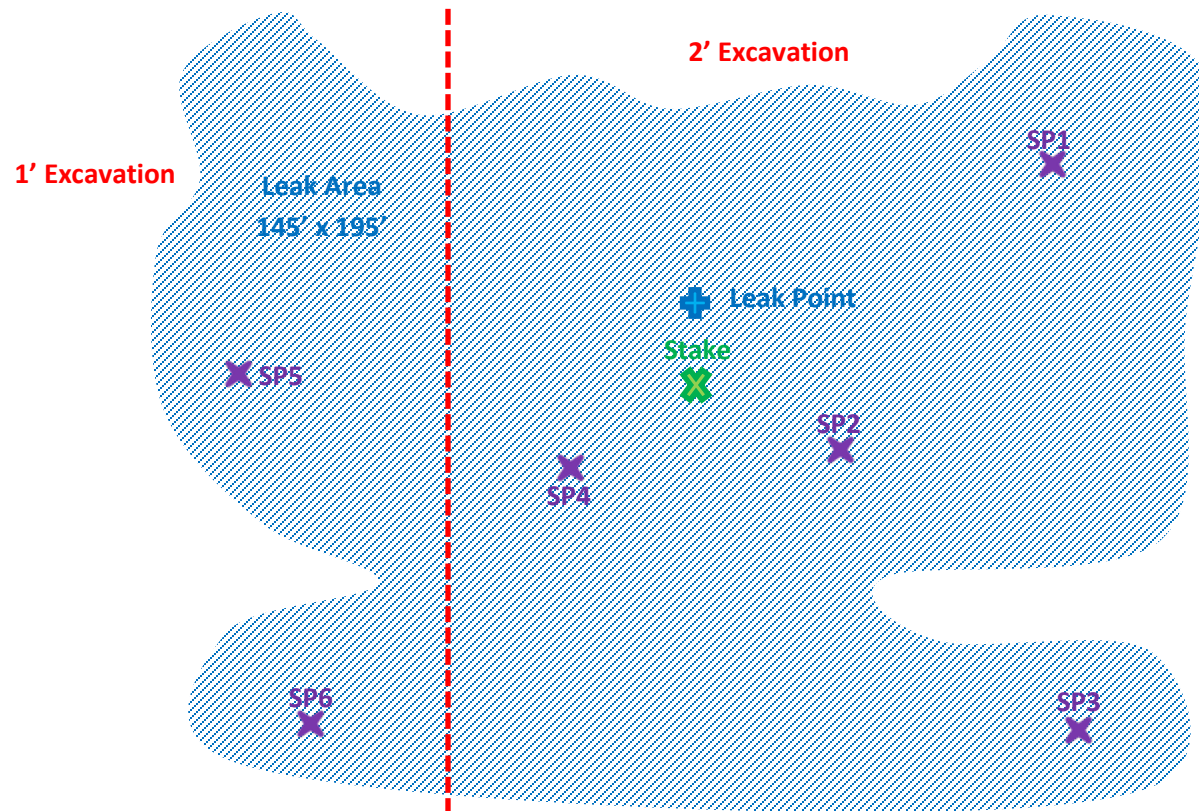
- A.) Sample points 2,3, &4 must be excavated to 3 feet bgs
- B.) Conformation Sidewall Samples must be provided with the final work order
- C.) Notify NMOCD prior to Sidewall sampling to allow witnessing opportunity.

Thank You,

Kristen D. Lynch  
Environmental Specialist, District 1  
Oil Conservation Division, EMNRD  
(575) 393-6161 ext. 111  
575-370-3180 (emergency-cell)



Oxy  
NHU Satellite #32 West (6/13/16)



U/L L, Section 29, T18S, R38E

Lea County, NM

N 32.71806° W 103.17622°

API# 30-025-23035

BBC International, Inc.

Oxy  
NHU Satellite #32W

Date: 06/16/2016

DRWG by: K. Purvis

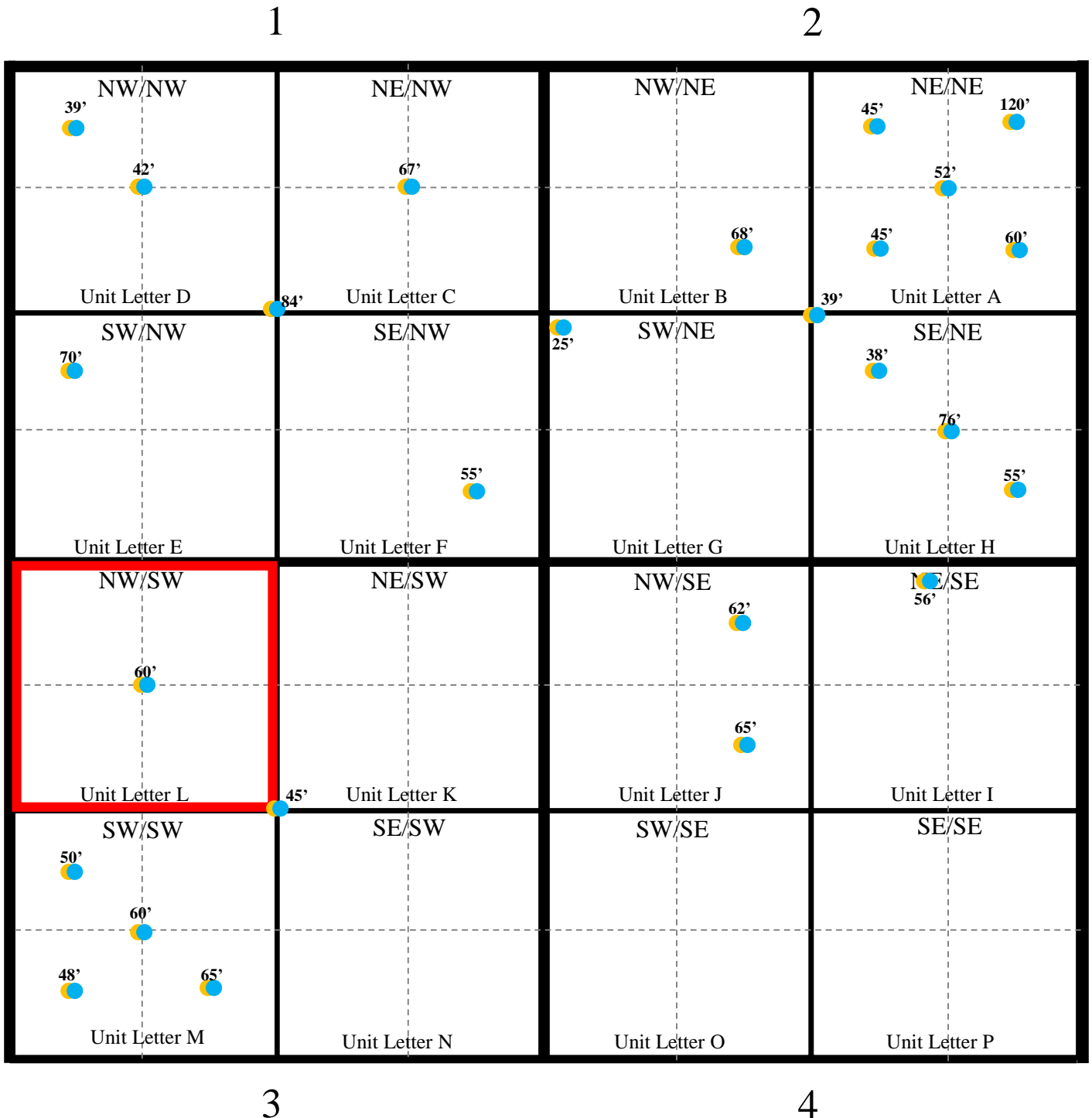
NOT TO SCALE

File: Wasson 2016

# Oxy NHU Satellite #32W

County: Lea      Unit Letter: L      Section: 29      Township: 18S      Range: 38E

Trend Map <50'



**Laboratory Analytical Results Summary  
NHU Satellite #32 West**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	6/15/16	6/20/16	6/20/16	6/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		976	528	320	96
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		35.6	19.7	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	6/15/16	6/20/16	6/20/16	6/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		976	528	288	112
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	6/15/16	6/20/16	6/20/16	6/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		816	800	464	32
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		98.8	13.2	n/a	n/a

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	6/15/16	6/20/16	6/20/16	6/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		848	720	464	32
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		56.9	23.8	n/a	n/a

		Sample	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	6/15/16	6/20/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		864	16
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	6/15/16	6/20/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		960	16
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0



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

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June 27, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NHU SAT-32 WEST

Enclosed are the results of analyses for samples received by the laboratory on 06/21/16 13:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 06/21/2016  
Reported: 06/27/2016  
Project Name: NHU SAT-32 WEST  
Project Number: (6/14/16)  
Project Location: OXY

Sampling Date: 06/15/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP1 @ 1 (H601350-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2016	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	06/23/2016	ND	1.97	98.3	2.00	0.439	
Ethylbenzene*	<0.050	0.050	06/23/2016	ND	1.76	88.2	2.00	0.635	
Total Xylenes*	<0.150	0.150	06/23/2016	ND	5.40	90.0	6.00	0.272	
Total BTX	<0.300	0.300	06/23/2016	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	06/22/2016	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	06/22/2016	ND	183	91.7	200	7.10	
DRO >C10-C28	35.6	10.0	06/22/2016	ND	186	92.9	200	7.77	

Surrogate: 1-Chlorooctane 80.4 % 35-147

Surrogate: 1-Chlorooctadecane 84.5 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 06/21/2016  
Reported: 06/27/2016  
Project Name: NHU SAT-32 WEST  
Project Number: (6/14/16)  
Project Location: OXY

Sampling Date: 06/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP1 @ 2 (H601350-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2016	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	06/23/2016	ND	1.97	98.3	2.00	0.439	
Ethylbenzene*	<0.050	0.050	06/23/2016	ND	1.76	88.2	2.00	0.635	
Total Xylenes*	<0.150	0.150	06/23/2016	ND	5.40	90.0	6.00	0.272	
Total BTX	<0.300	0.300	06/23/2016	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	06/22/2016	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	06/22/2016	ND	183	91.7	200	7.10	
DRO >C10-C28	19.7	10.0	06/22/2016	ND	186	92.9	200	7.77	

Surrogate: 1-Chlorooctane 71.0 % 35-147

Surrogate: 1-Chlorooctadecane 73.2 % 28-171

**Sample ID: SP1 @ 3 (H601350-03)**

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	06/22/2016	ND	416	104	400	3.92	

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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: 06/21/2016  
Reported: 06/27/2016  
Project Name: NHU SAT-32 WEST  
Project Number: (6/14/16)  
Project Location: OXY

Sampling Date: 06/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP1 @ 4 (H601350-04)**

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	06/22/2016	ND	416	104	400	3.92	

**Sample ID: SP2 @ 1 (H601350-05)**

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	06/23/2016	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	06/23/2016	ND	1.97	98.3	2.00	0.439	
Ethylbenzene*	<0.050	0.050	06/23/2016	ND	1.76	88.2	2.00	0.635	
Total Xylenes*	<0.150	0.150	06/23/2016	ND	5.40	90.0	6.00	0.272	
Total BTEX	<0.300	0.300	06/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	06/22/2016	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	06/22/2016	ND	183	91.7	200	7.10	
DRO >C10-C28	<10.0	10.0	06/22/2016	ND	186	92.9	200	7.77	

Surrogate: 1-Chlorooctane 89.4 % 35-147

Surrogate: 1-Chlorooctadecane 86.9 % 28-171

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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: 06/21/2016  
Reported: 06/27/2016  
Project Name: NHU SAT-32 WEST  
Project Number: (6/14/16)  
Project Location: OXY

Sampling Date: 06/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP2 @ 2 (H601350-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2016	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	06/23/2016	ND	1.97	98.3	2.00	0.439	
Ethylbenzene*	<0.050	0.050	06/23/2016	ND	1.76	88.2	2.00	0.635	
Total Xylenes*	<0.150	0.150	06/23/2016	ND	5.40	90.0	6.00	0.272	
Total BTX	<0.300	0.300	06/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	06/22/2016	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	06/22/2016	ND	183	91.7	200	7.10	
DRO >C10-C28	<10.0	10.0	06/22/2016	ND	186	92.9	200	7.77	

Surrogate: 1-Chlorooctane 87.3 % 35-147

Surrogate: 1-Chlorooctadecane 92.5 % 28-171

**Sample ID: SP2 @ 3 (H601350-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/22/2016	ND	416	104	400	3.92	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 06/21/2016  
Reported: 06/27/2016  
Project Name: NHU SAT-32 WEST  
Project Number: (6/14/16)  
Project Location: OXY

Sampling Date: 06/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP2 @ 4 (H601350-08)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/22/2016	ND	400	100	400	3.92		

**Sample ID: SP3 @ 1 (H601350-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2016	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	06/23/2016	ND	1.97	98.3	2.00	0.439	
Ethylbenzene*	<0.050	0.050	06/23/2016	ND	1.76	88.2	2.00	0.635	
Total Xylenes*	<0.150	0.150	06/23/2016	ND	5.40	90.0	6.00	0.272	
Total BTEX	<0.300	0.300	06/23/2016	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	06/22/2016	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	06/22/2016	ND	183	91.7	200	7.10	
DRO >C10-C28	98.8	10.0	06/22/2016	ND	186	92.9	200	7.77	

Surrogate: 1-Chlorooctane 86.6 % 35-147

Surrogate: 1-Chlorooctadecane 84.2 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 06/21/2016  
Reported: 06/27/2016  
Project Name: NHU SAT-32 WEST  
Project Number: (6/14/16)  
Project Location: OXY

Sampling Date: 06/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP3 @ 2 (H601350-10)**

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	06/23/2016	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	06/23/2016	ND	1.97	98.3	2.00	0.439	
Ethylbenzene*	<0.050	0.050	06/23/2016	ND	1.76	88.2	2.00	0.635	
Total Xylenes*	<0.150	0.150	06/23/2016	ND	5.40	90.0	6.00	0.272	
Total BTEx	<0.300	0.300	06/23/2016	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	06/22/2016	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	06/22/2016	ND	183	91.7	200	7.10	
DRO >C10-C28	13.2	10.0	06/22/2016	ND	186	92.9	200	7.77	

Surrogate: 1-Chlorooctane 78.1 % 35-147

Surrogate: 1-Chlorooctadecane 84.0 % 28-171

**Sample ID: SP3 @ 3 (H601350-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/22/2016	ND	400	100	400	3.92	

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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: 06/21/2016  
Reported: 06/27/2016  
Project Name: NHU SAT-32 WEST  
Project Number: (6/14/16)  
Project Location: OXY

Sampling Date: 06/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP3 @ 4 (H601350-12)**

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	06/22/2016	ND	400	100	400	3.92		

**Sample ID: SP4 @ 1 (H601350-13)**

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	06/23/2016	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	06/23/2016	ND	1.97	98.3	2.00	0.439	
Ethylbenzene*	<0.050	0.050	06/23/2016	ND	1.76	88.2	2.00	0.635	
Total Xylenes*	<0.150	0.150	06/23/2016	ND	5.40	90.0	6.00	0.272	
Total BTEX	<0.300	0.300	06/23/2016	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	06/22/2016	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	06/22/2016	ND	183	91.7	200	7.10	
DRO >C10-C28	56.9	10.0	06/22/2016	ND	186	92.9	200	7.77	

Surrogate: 1-Chlorooctane 73.3 % 35-147

Surrogate: 1-Chlorooctadecane 76.8 % 28-171

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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: 06/21/2016  
Reported: 06/27/2016  
Project Name: NHU SAT-32 WEST  
Project Number: (6/14/16)  
Project Location: OXY

Sampling Date: 06/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP4 @ 2 (H601350-14)**

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	06/23/2016	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	06/23/2016	ND	1.97	98.3	2.00	0.439	
Ethylbenzene*	<0.050	0.050	06/23/2016	ND	1.76	88.2	2.00	0.635	
Total Xylenes*	<0.150	0.150	06/23/2016	ND	5.40	90.0	6.00	0.272	
Total BTEx	<0.300	0.300	06/23/2016	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	06/22/2016	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	06/22/2016	ND	183	91.7	200	7.10	
DRO >C10-C28	23.8	10.0	06/22/2016	ND	186	92.9	200	7.77	

Surrogate: 1-Chlorooctane 77.7 % 35-147

Surrogate: 1-Chlorooctadecane 77.1 % 28-171

**Sample ID: SP4 @ 3 (H601350-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/22/2016	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 06/21/2016  
Reported: 06/27/2016  
Project Name: NHU SAT-32 WEST  
Project Number: (6/14/16)  
Project Location: OXY

Sampling Date: 06/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP4 @ 4 (H601350-16)**

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	06/22/2016	ND	400	100	400	3.92	

**Sample ID: SP5 @ 1 (H601350-17)**

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	06/23/2016	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	06/23/2016	ND	1.97	98.3	2.00	0.439	
Ethylbenzene*	<0.050	0.050	06/23/2016	ND	1.76	88.2	2.00	0.635	
Total Xylenes*	<0.150	0.150	06/23/2016	ND	5.40	90.0	6.00	0.272	
Total BTEX	<0.300	0.300	06/23/2016	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	06/22/2016	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	06/22/2016	ND	183	91.7	200	7.10	
DRO >C10-C28	<10.0	10.0	06/22/2016	ND	186	92.9	200	7.77	

Surrogate: 1-Chlorooctane 82.2 % 35-147

Surrogate: 1-Chlorooctadecane 78.2 % 28-171

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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: 06/21/2016  
Reported: 06/27/2016  
Project Name: NHU SAT-32 WEST  
Project Number: (6/14/16)  
Project Location: OXY

Sampling Date: 06/15/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP5 @ 2 (H601350-18)**

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	06/23/2016	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	06/23/2016	ND	1.97	98.3	2.00	0.439	
Ethylbenzene*	<0.050	0.050	06/23/2016	ND	1.76	88.2	2.00	0.635	
Total Xylenes*	<0.150	0.150	06/23/2016	ND	5.40	90.0	6.00	0.272	
Total BTEx	<0.300	0.300	06/23/2016	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/22/2016	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	06/22/2016	ND	183	91.7	200	7.10	
DRO >C10-C28	<10.0	10.0	06/22/2016	ND	186	92.9	200	7.77	

Surrogate: 1-Chlorooctane 73.9 % 35-147

Surrogate: 1-Chlorooctadecane 71.9 % 28-171

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

Received: 06/21/2016  
Reported: 06/27/2016  
Project Name: NHU SAT-32 WEST  
Project Number: (6/14/16)  
Project Location: OXY

Sampling Date: 06/15/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP6 @ 1 (H601350-19)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2016	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	06/23/2016	ND	1.97	98.3	2.00	0.439	
Ethylbenzene*	<0.050	0.050	06/23/2016	ND	1.76	88.2	2.00	0.635	
Total Xylenes*	<0.150	0.150	06/23/2016	ND	5.40	90.0	6.00	0.272	
Total BTX	<0.300	0.300	06/23/2016	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	06/22/2016	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	06/22/2016	ND	183	91.7	200	7.10	
DRO >C10-C28	<10.0	10.0	06/22/2016	ND	186	92.9	200	7.77	

Surrogate: 1-Chlorooctane 80.1 % 35-147

Surrogate: 1-Chlorooctadecane 72.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 06/21/2016  
Reported: 06/27/2016  
Project Name: NHU SAT-32 WEST  
Project Number: (6/14/16)  
Project Location: OXY

Sampling Date: 06/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP6 @ 2 (H601350-20)**

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	06/23/2016	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	06/23/2016	ND	1.97	98.3	2.00	0.439	
Ethylbenzene*	<0.050	0.050	06/23/2016	ND	1.76	88.2	2.00	0.635	
Total Xylenes*	<0.150	0.150	06/23/2016	ND	5.40	90.0	6.00	0.272	
Total BTEX	<0.300	0.300	06/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/22/2016	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	06/22/2016	ND	183	91.7	200	7.10	
DRO >C10-C28	<10.0	10.0	06/22/2016	ND	186	92.9	200	7.77	

Surrogate: 1-Chlorooctane 80.4 % 35-147

Surrogate: 1-Chlorooctadecane 67.2 % 28-171

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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.
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, 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

### ANALYSIS REQUEST

**BILL TO**

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

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: OKY

Project Name: NH - Set - 32 West (6.4.16)

Project Location: Hobbs, NM

Sampler Name: Roger Hernandez

FOR LAB USE ONLY

Lab I.D. Sample I.D.

HT001350

SP101

SP02

SP03

SP04

SP201

SP02

SP03

SP04

SP301

SP01

SP02

SP03

SP04

SP01

SP02

SP03

SP04

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

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TIME

Relinquished By:

Date: 6-21-16

Time: 1:20

Received By:

Date: 6-21-16

Time: 1:20

Relinquished By:

Date: 6-21-16

Time: 1:20

Received By:

Date: 6-21-16

Time: 1:20

Relinquished By:

Relinquished By:

Date: 6-21-16

Time: 1:20

Received By:

Date: 6-21-16

Time: 1:20

Relinquished By:

Date: 6-21-16

Time: 1:20

Received By:

Date: 6-21-16

Time: 1:20

Relinquished By:

Delivered By: (Circle One)

Date: 6-21-16

Time: 1:20

Received By:

Date: 6-21-16

Time: 1:20

Relinquished By:

Date: 6-21-16

Time: 1:20

Received By:

Date: 6-21-16

Time: 1:20

Relinquished By:

Sampler - UPS - Bus - Other:

Date: 6-21-16

Time: 1:20

Received By:

Date: 6-21-16

Time: 1:20

Relinquished By:

Date: 6-21-16

Time: 1:20

Received By:

Date: 6-21-16

Time: 1:20

Relinquished By:

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



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

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 Permian	Contact	Tony Aguilar
Address	1017 W. Stanolind Road	Telephone No.	(575) 397-8251
Facility Name	NHU Satellite #32 W Trunk line	Facility Type	Satellite
Surface Owner	Oxy	Mineral Owner	
		API No.	30-025-23035

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	29	18S	38E					Lea County, NM

Latitude N 32.71806° Longitude W 103.17622°

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	0.5 bbl oil, 30 bbls produced water	Volume Recovered	15 bbls produced water
Source of Release	Stress/fatigue of 8" fiberglass trunkline	Date and Hour of Occurrence	06/13/2016	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?	Maxey Brown-NMOCD		
By Whom?	Tony Aguilar/Mark Bowman- Oxy	Date and Hour	06/13/2016 @ 9:58 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.*					
Stress/fatigue of an 8" fiberglass trunkline caused a leak of 0.5 bbl of oil and 30 bbls of produced water. A vacuum truck recovered 15 bbls of produced water and the line was repaired.					
Describe Area Affected and Cleanup Action Taken.*					
The area affected is approximately 145' x 195' 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.					
Signature: 		OIL CONSERVATION DIVISION			
Printed Name: Tony Aguilar		Approved by Environmental Specialist:			
Title: HES Specialist		Approval Date:		Expiration Date:	
E-mail Address: Raymond_aguilar@oxy.com		Conditions of Approval:		Attached <input type="checkbox"/>	
Date: 6-22-16		Phone: (575) 397-8251			

\* Attach Additional Sheets If Necessary