

# Closure Report

## Site Description

Site Name:	Nimitz 12 Federal #3H
Company:	Oxy Permian Ltd.
Legal Description:	U/L B, Section 12, T24S, R30E
County:	Eddy County, NM
GPS Coordinates:	N 32.23885° W 103.83234°

## Release Data

Date of Release:	04/22/2016
Type of Release:	Oil and produced water
Source of Release:	Stuffing box packing blew out
Volume of Release:	2 bbls oil, 3 bbls produced water
Volume Recovered:	2 bbls

## Remediation Specifications

Remediation Parameters:	Excavate the entire spill area to a depth of 6 inches. Backfill the site with clean soil.	
Remediation Activities:	November 2016	
Plan Sent to OCD:	08/26/2016	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	09/02/2016	Email from Mike Bratcher to Cliff Brunson
Plan Sent to SLO:	08/26/2016	Email from Cliff Brunson to Shelly Tucker
SLO Approval of Plan:	08/26/2016	Email from Shelly Tucker to Cliff Brunson

## Supporting Documentation

Initial C-141	Signed 05/04/2016
Final C-141	Upon Completion
Site Diagram	May 2016
Groundwater Plot	375'
TOPO Maps	May 2016
Lab Summary	05/11/2016
Lab Analysis	05/11/2016
Correspondence	Request and approval of remediation plan via email

## Request for Closure

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

Casey Summers, NM Environmental Advisor

05/24/2016

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

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 Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Nimitz 12 Federal #3H	Facility Type	Well

Surface Owner	BLM	Mineral Owner		API No.	30-015-41011
---------------	-----	---------------	--	---------	--------------

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	12	24S	30E					Eddy County, NM

Latitude N 32.23885° Longitude W 103.83234°

#### NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	2 bbl oil, 3 bbls produced water	Volume Recovered	2 bbls
Source of Release	Stuffing box packing blew out	Date and Hour of Occurrence	04/22/2016	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?	Mike Bratcher, Heather Patterson- NMOCD; Shelly Tucker- BLM		
By Whom?	Kathy@ BBC International, Inc.	Date and Hour	04/22/2016 @ 3:56 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.\*

The packing blew out of the stuffing box causing a spill of 2 bbls of oil and 3 bbls of produced water. A vacuum truck recovered 2 bbls of fluids and the packing was replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 250' x 25' on location near the well head with a small overspray area just west of location. Remediation will be completed in accordance with a remediation plan approved by both NMOCD and 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.

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Casey Summers		Approved by Environmental Specialist:	
Title: NM Environmental Advisor		Approval Date:	Expiration Date:
E-mail Address: Casey_Summers@oxy.com		Conditions of Approval:	
Date: 5-4-16	Phone: (575) 513-8289	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary



# Oxy, Nimitz 12 Federal #3H




Leak date: 04/22/2016

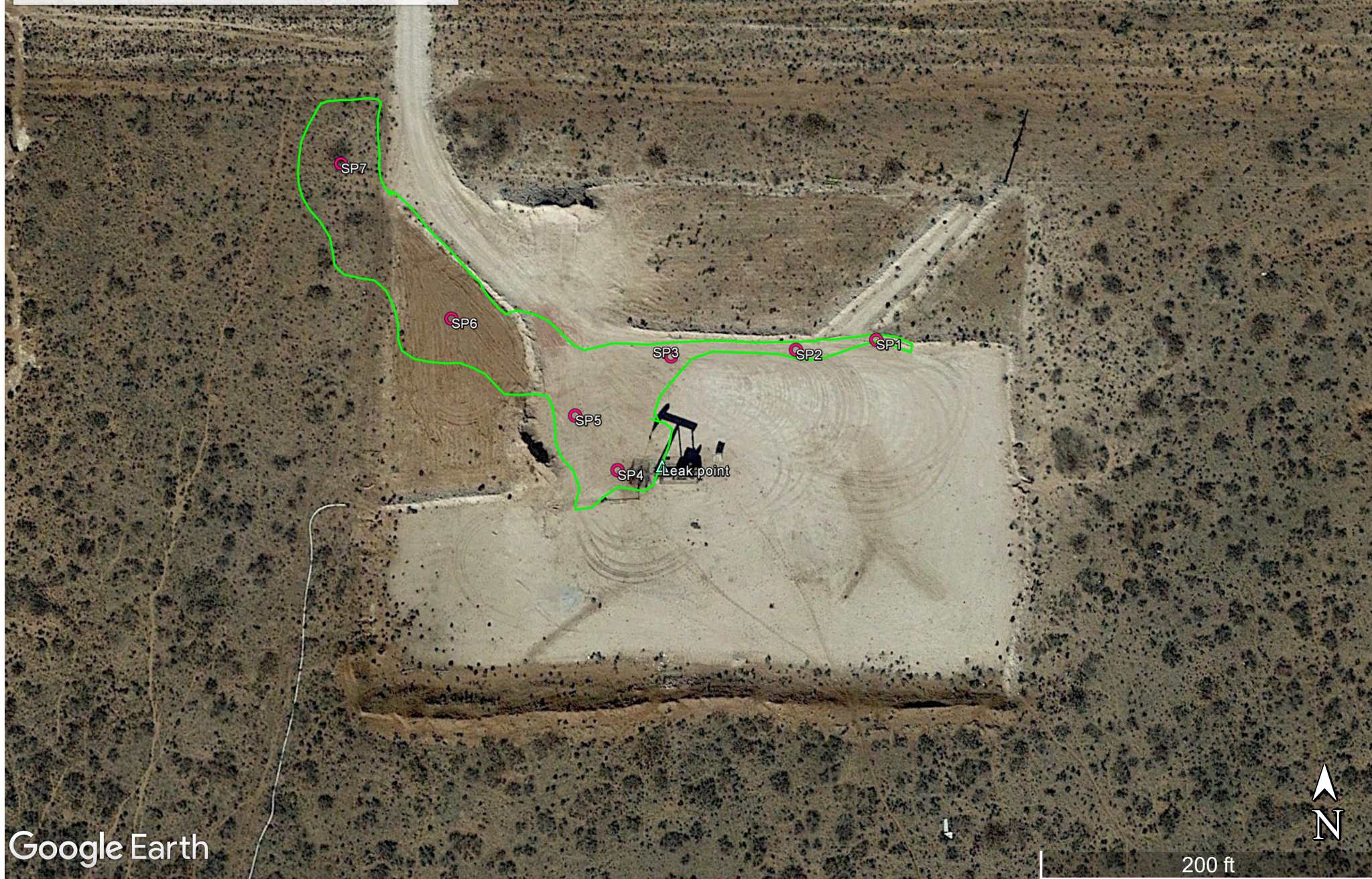
Eddy County, NM

API# 30-015-41011

RP# 2RP-3673

## Legend

-  Sample points, hand auger
-  Leak point
-  Spill Area, 6" Excavation across entire leak area





Oxy, Nimitz 12 Federal #3H

Sample points, hand auger

SP1, N 32.23889 W-103.83169

SP2, N 32.23887 W-103.83185

SP3, N 32.23886 W-103.83209

SP4, N 32.23867 W-103.83220

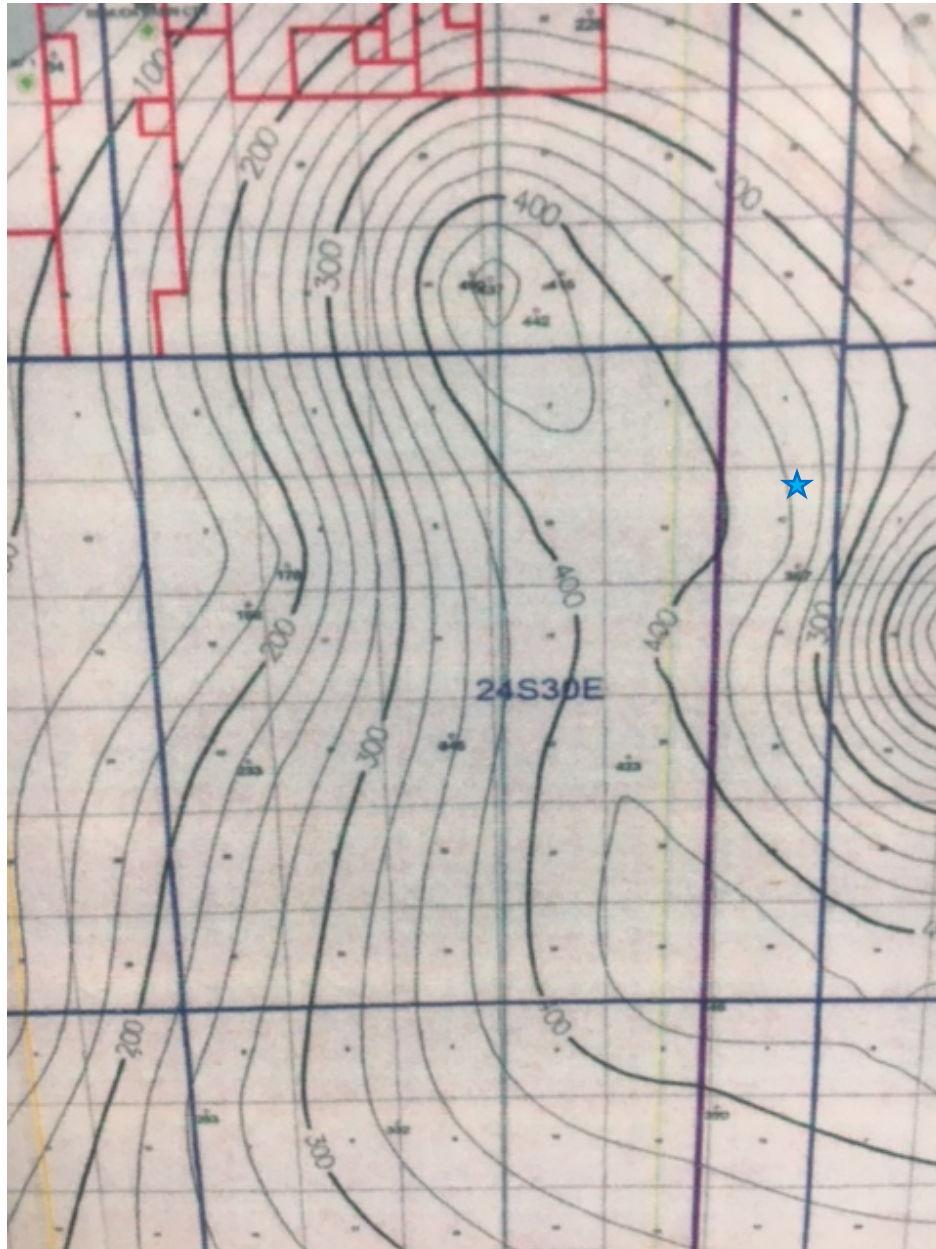
SP5, N 32.23876 W-103.83228

SP6, N 32.23893 W-103.83252

SP7, N 32.23919 W-103.83275



**Oxy, Nimitz 12 Federal #3H**  
**U/L B, Section 12, T24S, R30E**  
**Groundwater: 375'**





# *New Mexico Office of the State Engineer*

## Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

### **UTMNAD83 Radius Search (in meters):**

**Easting (X):** 610032

**Northing (Y):** 3567395

**Radius:** 1700

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/24/17 11:17 AM

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



Public Land Survey System (PLSS)

Q64:Q16: NWQ4: NESec: 12Tws: 24SRng: 30E

State Plane Coordinate System - NAD27

X:ftY:ftZone:

State Plane Coordinate System - NAD83

X:ftY:ftZone:

Degrees/Minutes/Seconds

Longitude (X):Degrees: °Minutes: 'Seconds: "

Latitude (Y):Degrees: °Minutes: 'Seconds: "

UTM - NAD27

Easting (X):mtrs Northing (Y):mtrs Zone:

SUBMIT

All Conversion Results are displayed as NAD 1983 UTM Zone 13

Easting (X):610032.0mtrsNorthing (Y):3567395.0mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~



# Groundwater Plot

Oxy Nimitz 12 Federal #3H

County  
Eddy County

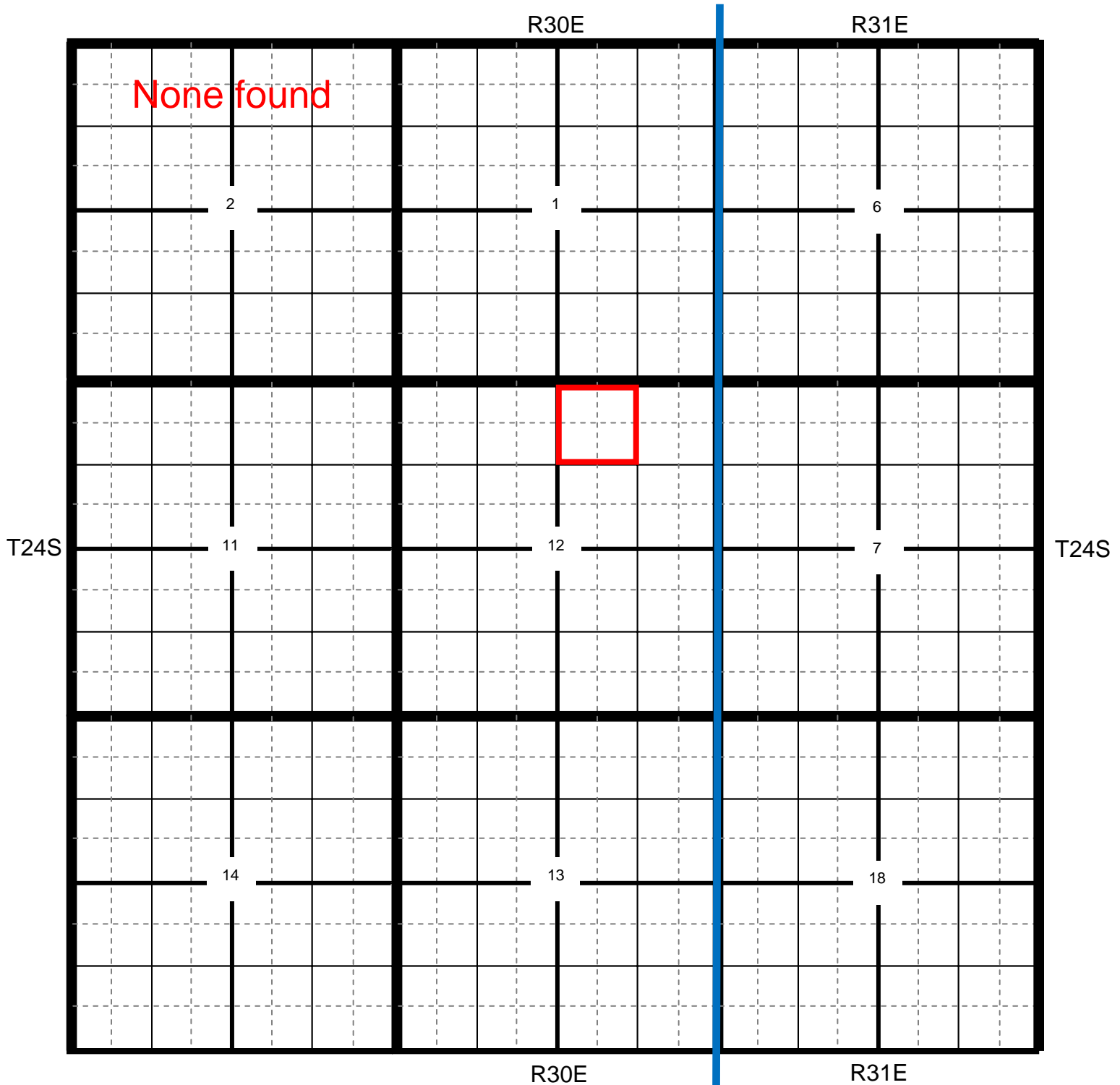
Unit Letter  
B

Section  
12

Township  
24S

Range  
30E

Trend Map 375'



Location

OCD

USGS

SEO

All Databases



## Oxy Nimitz 12 Federal #3H

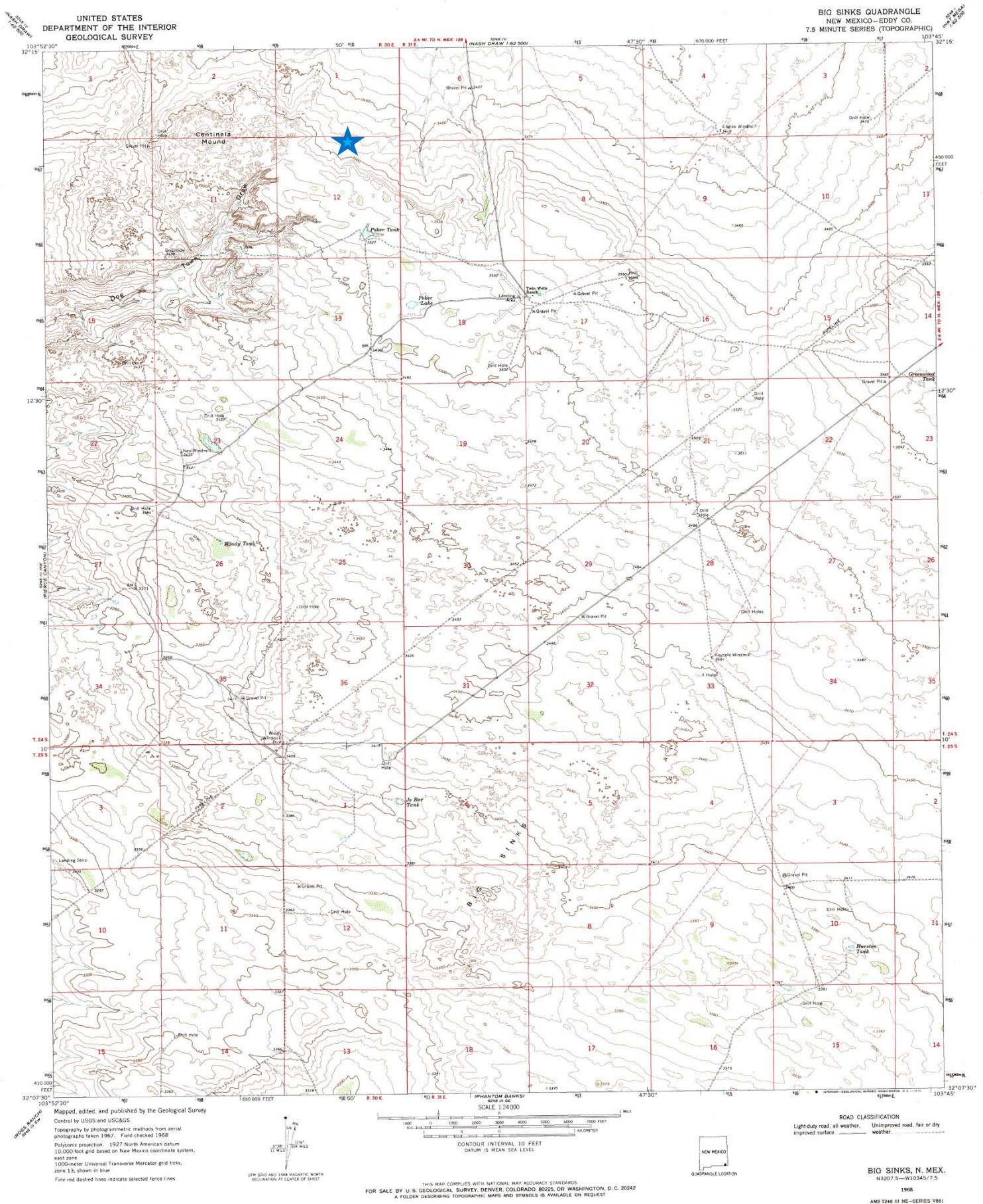
**County** Eddy     
 **Unit Letter** B     
 **Section** 12     
 **Township** 24S     
 **Range** 30E

Trend Map 375'

1		2	
NW/NW None found Unit Letter D	NE/NW Unit Letter C	NW/NE Unit Letter B	NE/NE Unit Letter A
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		4	

Oxy

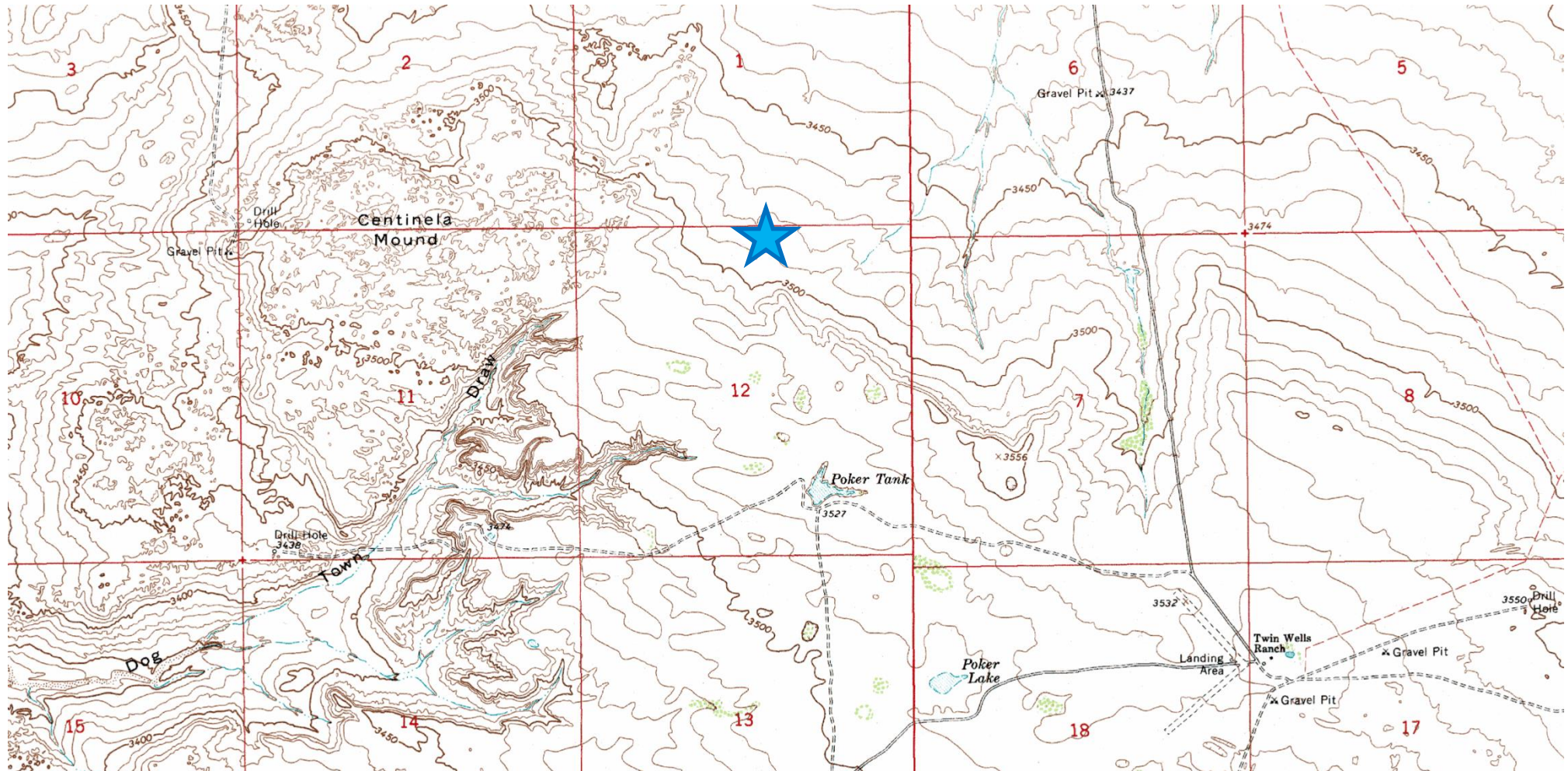
# Nimitz 12 Federal #3H





# Oxy

## Nimitz 12 Federal #3H



**Laboratory Analytical Results Summary  
Nimitz 12 Federal #3H**

		Sample	SP1 @ 1'	SP2 @ 2'
Analyte	Method	Date	5/11/16	5/11/16
			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		<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	5/11/16	5/11/16
			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		32	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	5/11/16	5/11/16	5/11/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.202	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.248	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.29	<0.150	<0.150
Total BTEX	BTEX 8021B		1.74	<0.300	<0.300
Chloride	SM4500Cl-B		13100	<16.0	32
GRO	TPH 8015M		130	<10.0	<10.0
DRO	TPH 8015M		29500	12.4	<10.0

		Sample	SP6 @ 1'
Analyte	Method	Date	5/11/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	5/11/16	5/11/16
			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		<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP7 @ SURFACE	SP7 @ 1'
Analyte	Method	Date	5/11/16	5/11/16+
			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		8130	32
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		499	<10.0

		Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	5/11/16	5/11/16+	5/11/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.192	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.246	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.2	<0.150	<0.150
Total BTEX	BTEX 8021B		1.64	<0.300	<0.300
Chloride	SM4500Cl-B		624	<16.0	<16.0
GRO	TPH 8015M		130	<10.0	<10.0
DRO	TPH 8015M		27300	25.9	<10.0



May 19, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NIMITZ 12 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 05/13/16 10:55.

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,



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: 05/13/2016  
Reported: 05/19/2016  
Project Name: NIMITZ 12 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/11/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H601057-01)**

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	05/16/2016	ND	2.15	108	2.00	0.544	
Toluene*	<0.050	0.050	05/16/2016	ND	2.11	105	2.00	1.46	
Ethylbenzene*	<0.050	0.050	05/16/2016	ND	1.94	97.0	2.00	1.62	
Total Xylenes*	<0.150	0.150	05/16/2016	ND	6.19	103	6.00	0.856	
Total BTX	<0.300	0.300	05/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	05/17/2016	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	05/13/2016	ND	198	98.8	200	0.224	
DRO >C10-C28	<10.0	10.0	05/13/2016	ND	211	106	200	1.81	

Surrogate: 1-Chlorooctane 89.3 % 35-147

Surrogate: 1-Chlorooctadecane 109 % 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

**Analytical Results For:**

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

Received: 05/13/2016  
Reported: 05/19/2016  
Project Name: NIMITZ 12 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/11/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 2' (H601057-02)**

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	05/16/2016	ND	2.15	108	2.00	0.544		
Toluene*	<0.050	0.050	05/16/2016	ND	2.11	105	2.00	1.46		
Ethylbenzene*	<0.050	0.050	05/16/2016	ND	1.94	97.0	2.00	1.62		
Total Xylenes*	<0.150	0.150	05/16/2016	ND	6.19	103	6.00	0.856		
Total BTX	<0.300	0.300	05/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	05/17/2016	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	05/13/2016	ND	198	98.8	200	0.224		
DRO >C10-C28	<10.0	10.0	05/13/2016	ND	211	106	200	1.81		

Surrogate: 1-Chlorooctane 80.0 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 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



**Analytical Results For:**

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

Received: 05/13/2016  
Reported: 05/19/2016  
Project Name: NIMITZ 12 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/11/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ SURFACE (H601057-03)**

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	05/17/2016	ND	2.15	108	2.00	0.544	
Toluene*	0.202	0.050	05/17/2016	ND	2.11	105	2.00	1.46	
Ethylbenzene*	0.248	0.050	05/17/2016	ND	1.94	97.0	2.00	1.62	
Total Xylenes*	1.29	0.150	05/17/2016	ND	6.19	103	6.00	0.856	
Total BTEx	1.74	0.300	05/17/2016	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	13100	16.0	05/17/2016	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

Surrogate: 1-Chlorooctane 107 % 35-147

Surrogate: 1-Chlorooctadecane 1290 % 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

**Analytical Results For:**

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

Received: 05/13/2016  
Reported: 05/19/2016  
Project Name: NIMITZ 12 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/11/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H601057-04)**

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	05/16/2016	ND	2.15	108	2.00	0.544	
Toluene*	<0.050	0.050	05/16/2016	ND	2.11	105	2.00	1.46	
Ethylbenzene*	<0.050	0.050	05/16/2016	ND	1.94	97.0	2.00	1.62	
Total Xylenes*	<0.150	0.150	05/16/2016	ND	6.19	103	6.00	0.856	
Total BTX	<0.300	0.300	05/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	05/17/2016	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	05/13/2016	ND	198	98.8	200	0.224	
DRO >C10-C28	12.4	10.0	05/13/2016	ND	211	106	200	1.81	

Surrogate: 1-Chlorooctane 78.5 % 35-147

Surrogate: 1-Chlorooctadecane 91.8 % 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

**Analytical Results For:**

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

 Received: 05/13/2016  
 Reported: 05/19/2016  
 Project Name: NIMITZ 12 FED #3H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/11/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 2' (H601057-05)**

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	05/16/2016	ND	2.15	108	2.00	0.544	
Toluene*	<0.050	0.050	05/16/2016	ND	2.11	105	2.00	1.46	
Ethylbenzene*	<0.050	0.050	05/16/2016	ND	1.94	97.0	2.00	1.62	
Total Xylenes*	<0.150	0.150	05/16/2016	ND	6.19	103	6.00	0.856	
Total BTEx	<0.300	0.300	05/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	32.0	16.0	05/17/2016	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	05/13/2016	ND	198	98.8	200	0.224	
DRO >C10-C28	<10.0	10.0	05/13/2016	ND	211	106	200	1.81	

Surrogate: 1-Chlorooctane 78.4 % 35-147

Surrogate: 1-Chlorooctadecane 93.0 % 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



**Analytical Results For:**

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

Received: 05/13/2016  
Reported: 05/19/2016  
Project Name: NIMITZ 12 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/11/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H601057-06)**

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	05/16/2016	ND	2.15	108	2.00	0.544	
Toluene*	<0.050	0.050	05/16/2016	ND	2.11	105	2.00	1.46	
Ethylbenzene*	<0.050	0.050	05/16/2016	ND	1.94	97.0	2.00	1.62	
Total Xylenes*	<0.150	0.150	05/16/2016	ND	6.19	103	6.00	0.856	
Total BTEx	<0.300	0.300	05/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	05/17/2016	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	05/13/2016	ND	198	98.8	200	0.224	
DRO >C10-C28	<10.0	10.0	05/13/2016	ND	211	106	200	1.81	

Surrogate: 1-Chlorooctane 81.2 % 35-147

Surrogate: 1-Chlorooctadecane 89.8 % 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

**Analytical Results For:**

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

Received: 05/13/2016  
Reported: 05/19/2016  
Project Name: NIMITZ 12 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/11/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 2' (H601057-07)**

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	05/16/2016	ND	2.15	108	2.00	0.544	
Toluene*	<0.050	0.050	05/16/2016	ND	2.11	105	2.00	1.46	
Ethylbenzene*	<0.050	0.050	05/16/2016	ND	1.94	97.0	2.00	1.62	
Total Xylenes*	<0.150	0.150	05/16/2016	ND	6.19	103	6.00	0.856	
Total BTEx	<0.300	0.300	05/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	05/17/2016	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	05/13/2016	ND	198	98.8	200	0.224	
DRO >C10-C28	<10.0	10.0	05/13/2016	ND	211	106	200	1.81	

Surrogate: 1-Chlorooctane 77.0 % 35-147

Surrogate: 1-Chlorooctadecane 99.0 % 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

**Analytical Results For:**

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

Received: 05/13/2016  
Reported: 05/19/2016  
Project Name: NIMITZ 12 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/11/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ SURFACE (H601057-08)**

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	05/17/2016	ND	2.15	108	2.00	0.544	
Toluene*	0.192	0.050	05/17/2016	ND	2.11	105	2.00	1.46	
Ethylbenzene*	0.246	0.050	05/17/2016	ND	1.94	97.0	2.00	1.62	
Total Xylenes*	1.20	0.150	05/17/2016	ND	6.19	103	6.00	0.856	
Total BTX	1.64	0.300	05/17/2016	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	624	16.0	05/17/2016	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	
GRO C6-C10	130	50.0	05/13/2016	ND	198	98.8	200	0.224		
DRO >C10-C28	27300	50.0	05/13/2016	ND	211	106	200	1.81		

Surrogate: 1-Chlorooctane 113 % 35-147

Surrogate: 1-Chlorooctadecane 948 % 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



**Analytical Results For:**

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

Received: 05/13/2016  
Reported: 05/19/2016  
Project Name: NIMITZ 12 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/11/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 1' (H601057-09)**

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	05/16/2016	ND	2.15	108	2.00	0.544	
Toluene*	<0.050	0.050	05/16/2016	ND	2.11	105	2.00	1.46	
Ethylbenzene*	<0.050	0.050	05/16/2016	ND	1.94	97.0	2.00	1.62	
Total Xylenes*	<0.150	0.150	05/16/2016	ND	6.19	103	6.00	0.856	
Total BTEx	<0.300	0.300	05/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	05/17/2016	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	05/13/2016	ND	198	98.8	200	0.224	
DRO >C10-C28	25.9	10.0	05/13/2016	ND	211	106	200	1.81	

Surrogate: 1-Chlorooctane 77.4 % 35-147

Surrogate: 1-Chlorooctadecane 96.7 % 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

**Analytical Results For:**

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

Received: 05/13/2016  
Reported: 05/19/2016  
Project Name: NIMITZ 12 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/11/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 2' (H601057-10)**

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	05/16/2016	ND	2.15	108	2.00	0.544	
Toluene*	<0.050	0.050	05/16/2016	ND	2.11	105	2.00	1.46	
Ethylbenzene*	<0.050	0.050	05/16/2016	ND	1.94	97.0	2.00	1.62	
Total Xylenes*	<0.150	0.150	05/16/2016	ND	6.19	103	6.00	0.856	
Total BTEx	<0.300	0.300	05/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	05/17/2016	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	05/13/2016	ND	198	98.8	200	0.224	
DRO >C10-C28	<10.0	10.0	05/13/2016	ND	211	106	200	1.81	

Surrogate: 1-Chlorooctane 82.1 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 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

**Analytical Results For:**

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

Received: 05/13/2016  
Reported: 05/19/2016  
Project Name: NIMITZ 12 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/11/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 1' (H601057-11)**

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	05/16/2016	ND	2.15	108	2.00	0.544	
Toluene*	<0.050	0.050	05/16/2016	ND	2.11	105	2.00	1.46	
Ethylbenzene*	<0.050	0.050	05/16/2016	ND	1.94	97.0	2.00	1.62	
Total Xylenes*	<0.150	0.150	05/16/2016	ND	6.19	103	6.00	0.856	
Total BTX	<0.300	0.300	05/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	32.0	16.0	05/17/2016	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	05/13/2016	ND	198	98.8	200	0.224	
DRO >C10-C28	<10.0	10.0	05/13/2016	ND	211	106	200	1.81	

Surrogate: 1-Chlorooctane 77.0 % 35-147

Surrogate: 1-Chlorooctadecane 91.0 % 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



**Analytical Results For:**

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

Received: 05/13/2016  
Reported: 05/19/2016  
Project Name: NIMITZ 12 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/11/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 2' (H601057-12)**

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	05/16/2016	ND	2.15	108	2.00	0.544	
Toluene*	<0.050	0.050	05/16/2016	ND	2.11	105	2.00	1.46	
Ethylbenzene*	<0.050	0.050	05/16/2016	ND	1.94	97.0	2.00	1.62	
Total Xylenes*	<0.150	0.150	05/16/2016	ND	6.19	103	6.00	0.856	
Total BTEx	<0.300	0.300	05/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	05/17/2016	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	05/13/2016	ND	198	98.8	200	0.224	
DRO >C10-C28	<10.0	10.0	05/13/2016	ND	211	106	200	1.81	

Surrogate: 1-Chlorooctane 82.5 % 35-147

Surrogate: 1-Chlorooctadecane 94.9 % 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

**Analytical Results For:**

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

Received: 05/13/2016  
Reported: 05/19/2016  
Project Name: NIMITZ 12 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/11/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 1' (H601057-13)**

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	05/16/2016	ND	2.15	108	2.00	0.544	
Toluene*	<0.050	0.050	05/16/2016	ND	2.11	105	2.00	1.46	
Ethylbenzene*	<0.050	0.050	05/16/2016	ND	1.94	97.0	2.00	1.62	
Total Xylenes*	<0.150	0.150	05/16/2016	ND	6.19	103	6.00	0.856	
Total BTEx	<0.300	0.300	05/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	05/17/2016	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	05/13/2016	ND	198	98.8	200	0.224	
DRO >C10-C28	<10.0	10.0	05/13/2016	ND	211	106	200	1.81	

Surrogate: 1-Chlorooctane 76.4 % 35-147

Surrogate: 1-Chlorooctadecane 94.4 % 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

**Analytical Results For:**

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

Received:	05/13/2016	Sampling Date:	05/11/2016
Reported:	05/19/2016	Sampling Type:	Soil
Project Name:	NIMITZ 12 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 7 @ SURFACE (H601057-14)**

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	05/16/2016	ND	2.15	108	2.00	0.544	
Toluene*	<0.050	0.050	05/16/2016	ND	2.11	105	2.00	1.46	
Ethylbenzene*	<0.050	0.050	05/16/2016	ND	1.94	97.0	2.00	1.62	
Total Xylenes*	<0.150	0.150	05/16/2016	ND	6.19	103	6.00	0.856	
Total BTEx	<0.300	0.300	05/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	8130	16.0	05/17/2016	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	05/13/2016	ND	198	98.8	200	0.224	
DRO >C10-C28	499	10.0	05/13/2016	ND	211	106	200	1.81	

Surrogate: 1-Chlorooctane 78.4 % 35-147

Surrogate: 1-Chlorooctadecane 109 % 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

**Analytical Results For:**

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

Received: 05/13/2016  
Reported: 05/19/2016  
Project Name: NIMITZ 12 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/11/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 1' (H601057-15)**

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	05/16/2016	ND	2.15	108	2.00	0.544	
Toluene*	<0.050	0.050	05/16/2016	ND	2.11	105	2.00	1.46	
Ethylbenzene*	<0.050	0.050	05/16/2016	ND	1.94	97.0	2.00	1.62	
Total Xylenes*	<0.150	0.150	05/16/2016	ND	6.19	103	6.00	0.856	
Total BTEx	<0.300	0.300	05/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	32.0	16.0	05/17/2016	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	05/13/2016	ND	198	98.8	200	0.224	
DRO >C10-C28	<10.0	10.0	05/13/2016	ND	211	106	200	1.81	

Surrogate: 1-Chlorooctane 80.5 % 35-147

Surrogate: 1-Chlorooctadecane 98.3 % 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



### 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.
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

---

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

# ORDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:		BILL TO										ANALYSIS REQUEST									
Project Manager: Cliff Brunson		Company:		OKY																			
Address: P.O. Box 805		Attn: Casey Summers																					
City: Hobbs		Address:																					
Phone #: 575-397-6388		City:																					
Fax #: 575-397-0397		State:																					
Project #:		Zip:																					
Project Name:		Phone #:																					
Project Location:		Fax #:																					
Sampler Name:		Matrix:																					
FOR LAB USE ONLY		PRESERV																					
Lab I.D.		SAMPLING																					
Sample I.D.		DATE																					
H001057		TIME																					
1		5-11-16																					
2		5-11-16																					
3		5-11-16																					
4		5-11-16																					
5		5-11-16																					
6		5-11-16																					
7		5-11-16																					
8		5-11-16																					
9		5-11-16																					
10		5-11-16																					
11		5-11-16																					
12		5-11-16																					
13		5-11-16																					
14		5-11-16																					
15		5-11-16																					
16		5-11-16																					
17		5-11-16																					
18		5-11-16																					
19		5-11-16																					
20		5-11-16																					
21		5-11-16																					
22		5-11-16																					
23		5-11-16																					
24		5-11-16																					
25		5-11-16																					
26		5-11-16																					
27		5-11-16																					
28		5-11-16																					
29		5-11-16																					
30		5-11-16																					
31		5-11-16																					
32		5-11-16																					
33		5-11-16																					
34		5-11-16																					
35		5-11-16																					
36		5-11-16																					
37		5-11-16																					
38		5-11-16																					
39		5-11-16																					
40		5-11-16																					
41		5-11-16																					
42		5-11-16																					
43		5-11-16																					
44		5-11-16																					
45		5-11-16																					
46		5-11-16																					
47		5-11-16																					
48		5-11-16																					
49		5-11-16																					
50		5-11-16																					
51		5-11-16																					
52		5-11-16																					
53		5-11-16																					
54		5-11-16																					
55		5-11-16																					
56		5-11-16																					
57		5-11-16																					
58		5-11-16																					
59		5-11-16																					
60		5-11-16																					
61		5-11-16																					
62		5-11-16																					
63		5-11-16																					
64		5-11-16																					
65		5-11-16																					
66		5-11-16																					
67		5-11-16																					
68		5-11-16																					
69		5-11-16																					
70		5-11-16																					
71		5-11-16																					
72		5-11-16																					
73		5-11-16																					
74		5-11-16																					
75		5-11-16																					
76		5-11-16																					
77		5-11-16																					





# ARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.

Sample I.D.

H601057

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH  
BTEX  
CL-

11 SP 50 1'  
12 SP 50 2'  
13 SP 60 1'  
14 SP 70 1' JAWAC  
15 SP 70 1' C-1

5-11-16 225  
5-11-16 240  
5-11-16 308  
5-11-16 320  
5-11-16 329

V V V  
V V V  
V V V  
V V V  
V V V

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Cliff Brunson

Date: 5-13-16

Received By:

Cliff Brunson

Checked By:

Cliff Brunson

Phone Result:

Yes No Add'l Phone #:

Fax Result:

Yes No Add'l Fax #:

REMARKS:

Relinquished By:

Cliff Brunson

Date: 5-13-16

Received By:

Cliff Brunson

Checked By:

Cliff Brunson

Phone Result:

Yes No Add'l Phone #:

Fax Result:

Yes No Add'l Fax #:

REMARKS:

Delivered By: (Circle One)

UPS

Date: 5-13-16

Received By:

Cliff Brunson

Checked By:

Cliff Brunson

Phone Result:

Yes No Add'l Phone #:

Fax Result:

Yes No Add'l Fax #:

REMARKS:

Sampler - UPS - Bus - Other:

UPS

Date: 5-13-16

Received By:

Cliff Brunson

Checked By:

Cliff Brunson

Phone Result:

Yes No Add'l Phone #:

Fax Result:

Yes No Add'l Fax #:

REMARKS:

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

corrected 2.30

#54

**From:** [Bratcher, Mike, EMNRD](#)  
**To:** [Cliff Brunson](#)  
**Cc:** [Patterson, Heather, EMNRD](#); [Casey Summers](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#); [Jennifer\\_Duarte@oxy.com](#); [Tucker, Shelly](#)  
**Subject:** RE: OXY Nimitz 12 Federal #3H - Remediation Plan  
**Date:** Friday, September 2, 2016 8:47:31 AM

---

RE: OXY USA \* NIMITZ 12 Fed 3H \* 30-015-41011 \* **2RP-3673** \* DOR: 4/22/16

Cliff,

Your proposal for remediation of the above referenced release is approved. Please advise once remedial activities have been scheduled. Federal sites will require like approval from BLM.

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 Brunson [mailto:[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)]  
**Sent:** Friday, August 26, 2016 7:18 AM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Patterson, Heather, EMNRD; Casey Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis; [Jennifer\\_Duarte@oxy.com](mailto:Jennifer_Duarte@oxy.com)  
**Subject:** OXY Nimitz 12 Federal #3H - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY Nimitz 12 Federal #3H 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)



\*\*\*\*\*

Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please immediately notify the sender by e-mail or by telephone call to (575) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.

\*\*\*\*\*

From: [Tucker, Shelly](#)  
To: [Cliff Brunson](#)  
Cc: [Casey Summers](#); [Jennifer.Duarte@oxy.com](mailto:Jennifer.Duarte@oxy.com); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)  
Subject: Re: OXY Nimitz 12 Federal #3H - Remediation Plan  
Date: Friday, August 26, 2016 9:12:41 AM

---

BLM accepts/approves your work plan as written.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

**Shelly J Tucker**

Environmental Protection Specialist  
Bureau of Land Management

620 E. Greene St  
Carlsbad, NM 88220

575.234.5905 - Direct  
575.361.0084 - Cellular

[stucker@blm.gov](mailto:stucker@blm.gov)



The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

**Confidentiality Warning:** This message along with any attachments are intended only for use of the individual or entity to which it is addressed and may contain information that is privileged or confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

On Fri, Aug 26, 2016 at 7:17 AM, Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:

Shelly,

I have attached a remediation plan for the Oxy Nimitz 12 Federal #3H release. This plan

has been approved by Mike Bratcher of the NMOCD. Oxy is requesting the BLM's approval of this plan as well. Upon your review of the materials, it would be appreciated if you would respond via email with the BLM's approval.

If you have any questions, please let me 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](mailto:cbrunson@bbcinternational.com)



\*\*\*\*\*

Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please immediately notify the sender by e-mail or by telephone call to (575) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.

\*\*\*\*\*



















