

Closure Report

Site Description

Site Name:	Gila 12 Federal #2H Battery
Company:	Oxy Permian Ltd.
Legal Description:	U/L O, Section 12, T24S, R30E
County:	Eddy County, NM
GPS Coordinates:	N 32.22696° W 103.83256°

Release Data

Date of Release:	10/21/2016
Type of Release:	Oil and produced water
Source of Release:	Failure of the emergency shut off valve
Volume of Release:	10 bbls oil, 40 bbls produced water
Volume Recovered:	5 bbls

Remediation Specifications

Remediation Parameters:	Excavate the area around SP1 and SP2 to a depth of 1.5 feet. Excavate the area around SP3 to a depth of 5 feet. Around SP4 and SP5, the area will be backdragged/scraped. Backfill the site with clean soil.	
Remediation Activities:	05/09/2017 to 05/17/2017	
Plan Sent to OCD:	11/21/2016	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	11/29/2016	Email from Mike Bratcher to Cliff Brunson
Plan Sent to SLO:	11/21/2016	Email from Cliff Brunson to Shelly Tucker
SLO Approval of Plan:	11/21/2016	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 10/25/2016
Final C-141	Upon Completion
Site Diagram	October 2016
Groundwater Plot	375'
TOPO Maps	October 2016
Lab Summary	11/01/2016
Lab Analysis	11/01/2016
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

05/31/2017

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	PO Box 4294; Houston, TX 77210	Telephone No.	(575) 513-8289
Facility Name	Gila 12 Federal #2H Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-36401

LOCATION OF RELEASE

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

Latitude N 32.22696° Longitude W 103.83256°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	10 bbls oil, 40 bbls produced water	Volume Recovered	5 bbls
Source of Release	Failure of the emergency shut off valve	Date and Hour of Occurrence	10/21/2016	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 Purvis	Date and Hour	10/21/2016 2 3:33 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.*

Failure of the emergency shut off valve caused the tank to spill over and leak 10 bbls of oil and 40 bbls of produced water. A vacuum truck recovered 5 bbls of fluids and the valve was repaired.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 300' x 80' both on and off location. Remediation will be completed in accordance with a remediation plan approved by 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:	OIL CONSERVATION DIVISION		
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:		Attached <input type="checkbox"/>
Date: 10-25-16	Phone: (575) 513-8289		

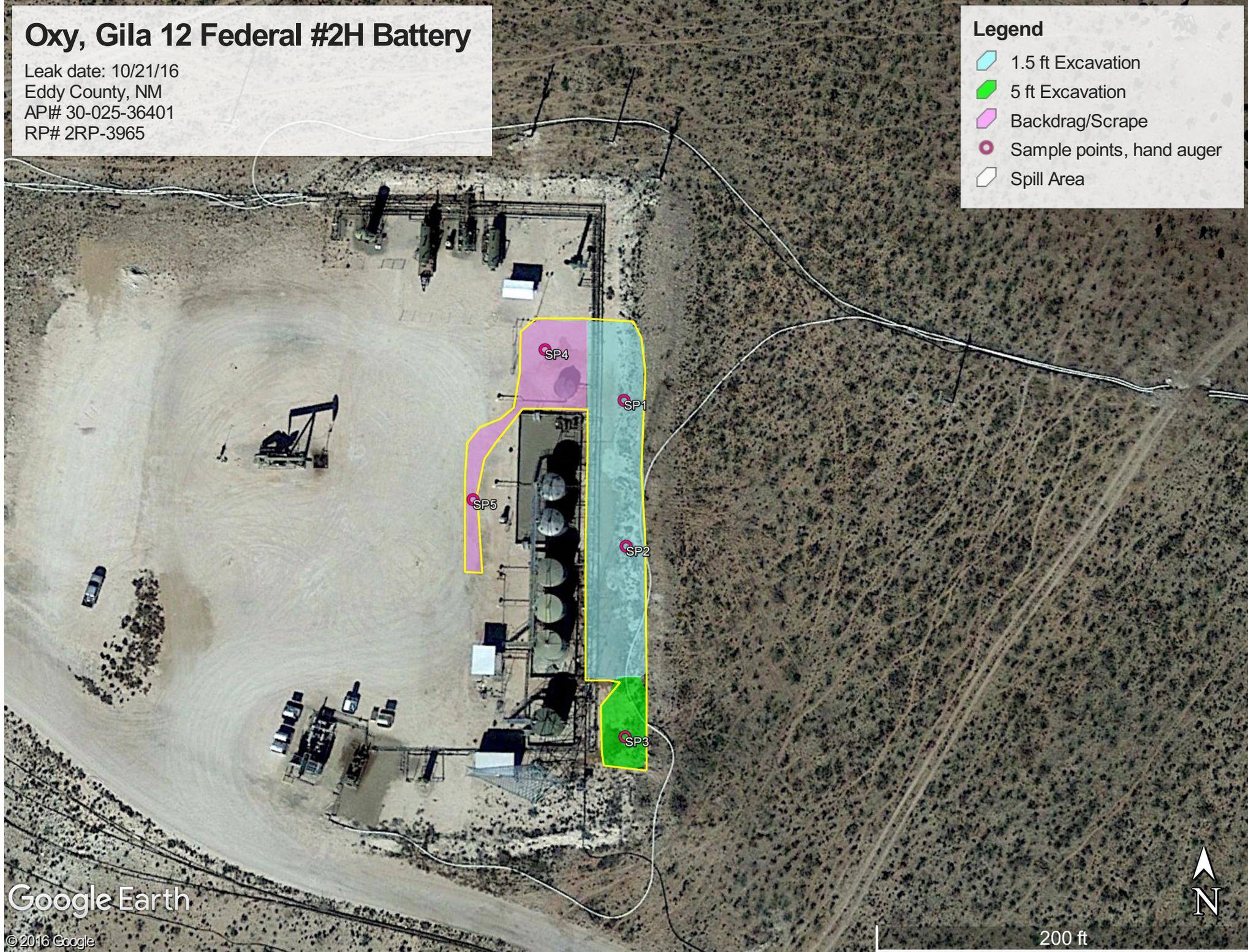
* Attach Additional Sheets If Necessary

Oxy, Gila 12 Federal #2H Battery

Leak date: 10/21/16
Eddy County, NM
API# 30-025-36401
RP# 2RP-3965

Legend

- 1.5 ft Excavation
- 5 ft Excavation
- Backdrag/Scrape
- Sample points, hand auger
- Spill Area



Google Earth

© 2016 Google

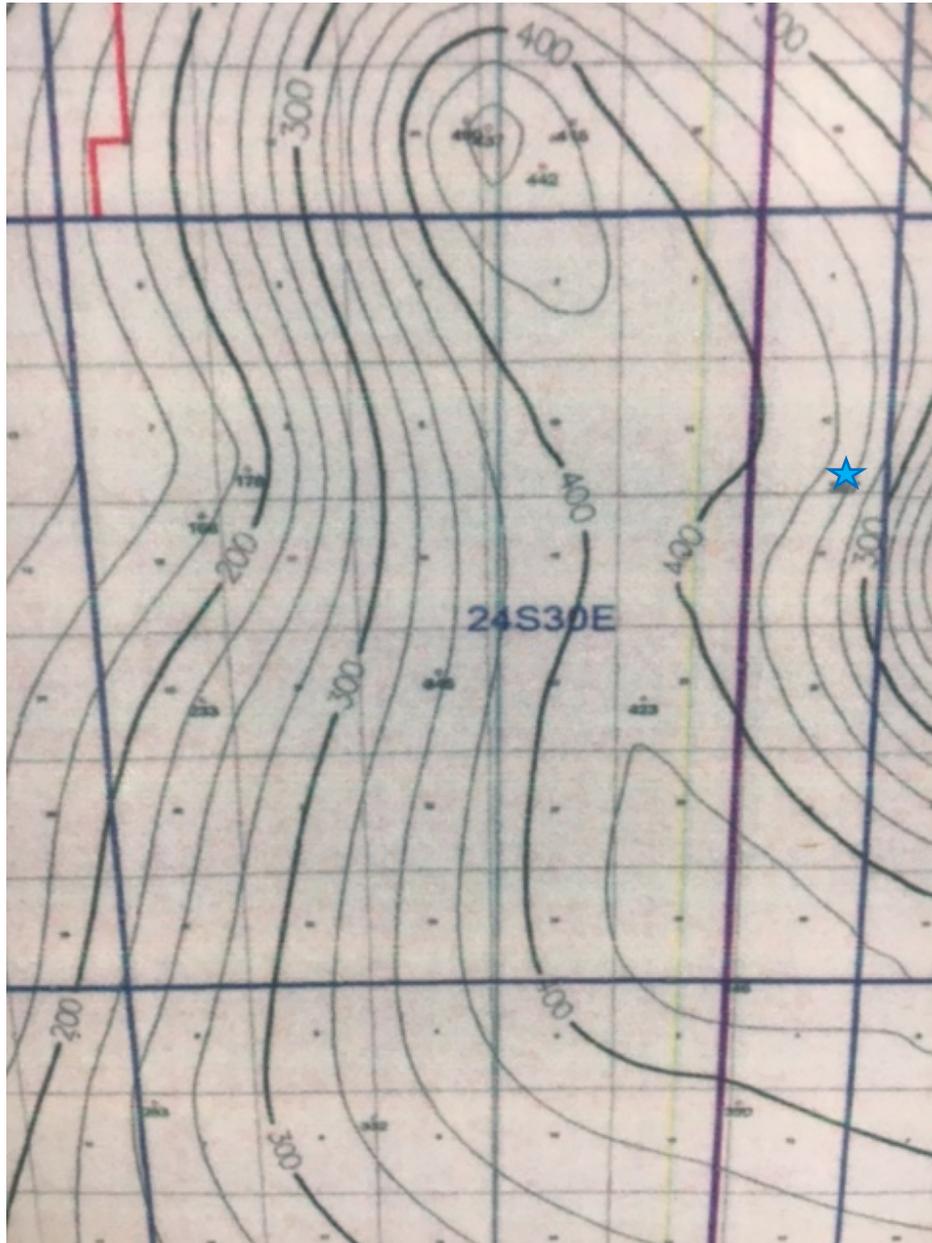
200 ft



Oxy, Gila 12 Federal #2H Battery

U/L O, Section 12, T24S, R30E

Groundwater: 375'



Oxy, Gila 12 Federal #2H Battery

Sample points, hand auger

SP1, N 32.22697 W-103.83237

SP2, N 32.22675 W-103.83236

SP3, N 32.22647 W-103.83237

SP4, N 32.22705 W-103.83251

SP5, N 32.22682 W-103.83264



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): 610046

Northing (Y): 3566189

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.

5/31/17 10:48 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Public Land Survey System (PLSS)

Q64: Q16: SW Q4: SE Sec: 12 Tws: 24S Rng: 30E

State Plane Coordinate System - NAD27

X: ft Y: ft Zone:

State Plane Coordinate System - NAD83

X: ft Y: ft Zone:

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): mtrs Northing (Y): mtrs

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



Groundwater Plot

Oxy Gila 12 Federal #2H Battery

County
Eddy County

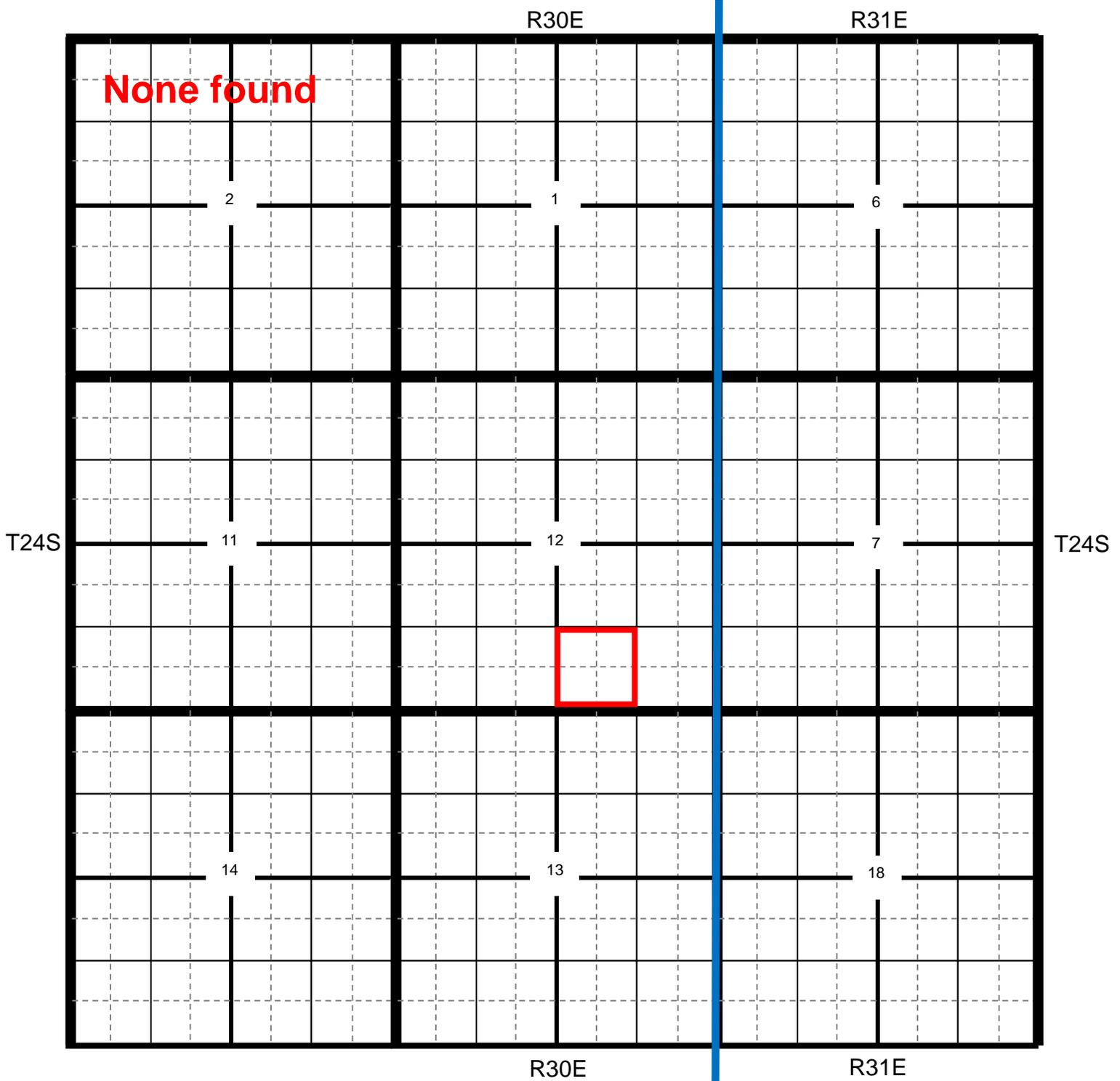
Unit Letter
O

Section
12

Township
24S

Range
30E

Trend Map 375'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy Gila 12 Federal #2H Battery

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

Trend Map 375'

1

2

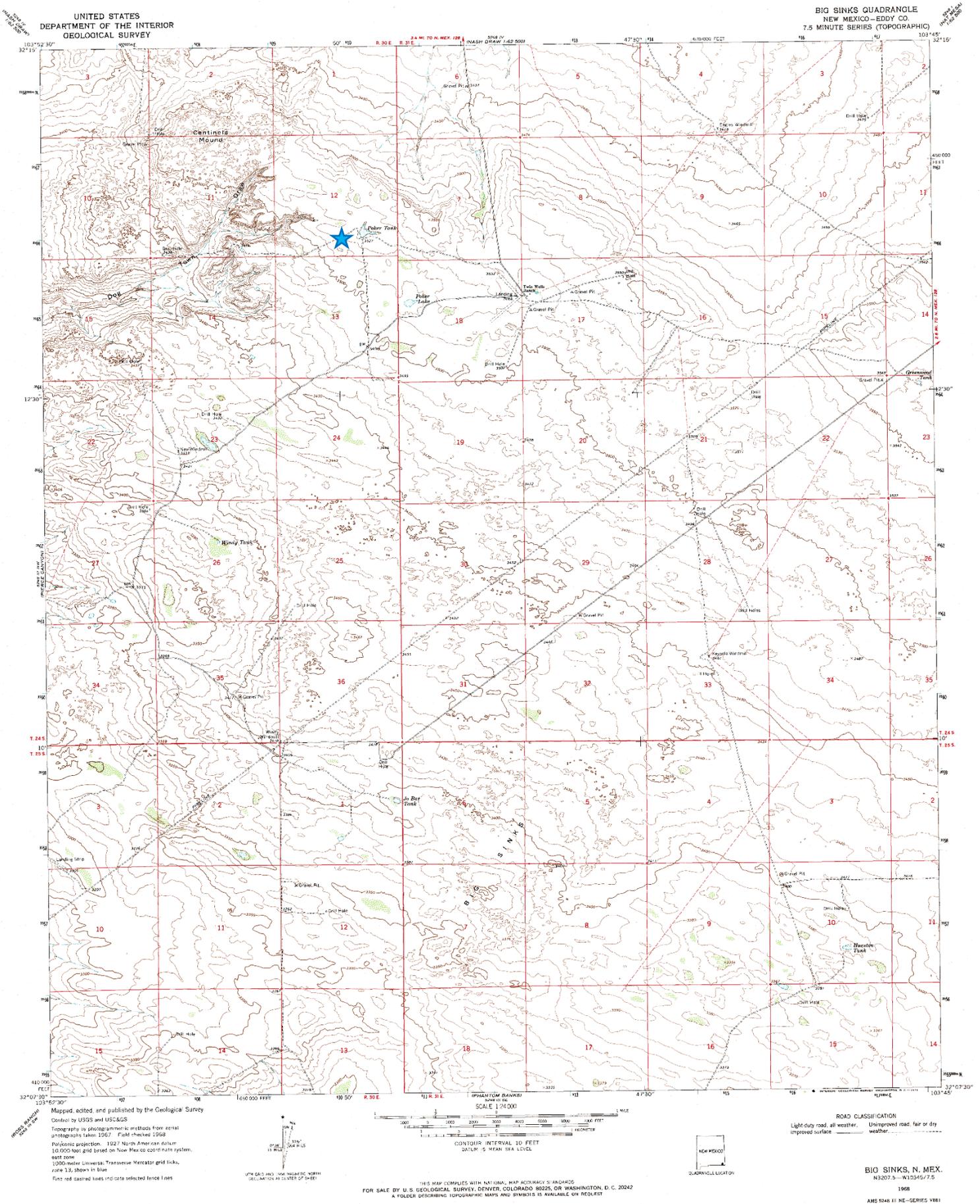
NW/NW	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter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

3

4

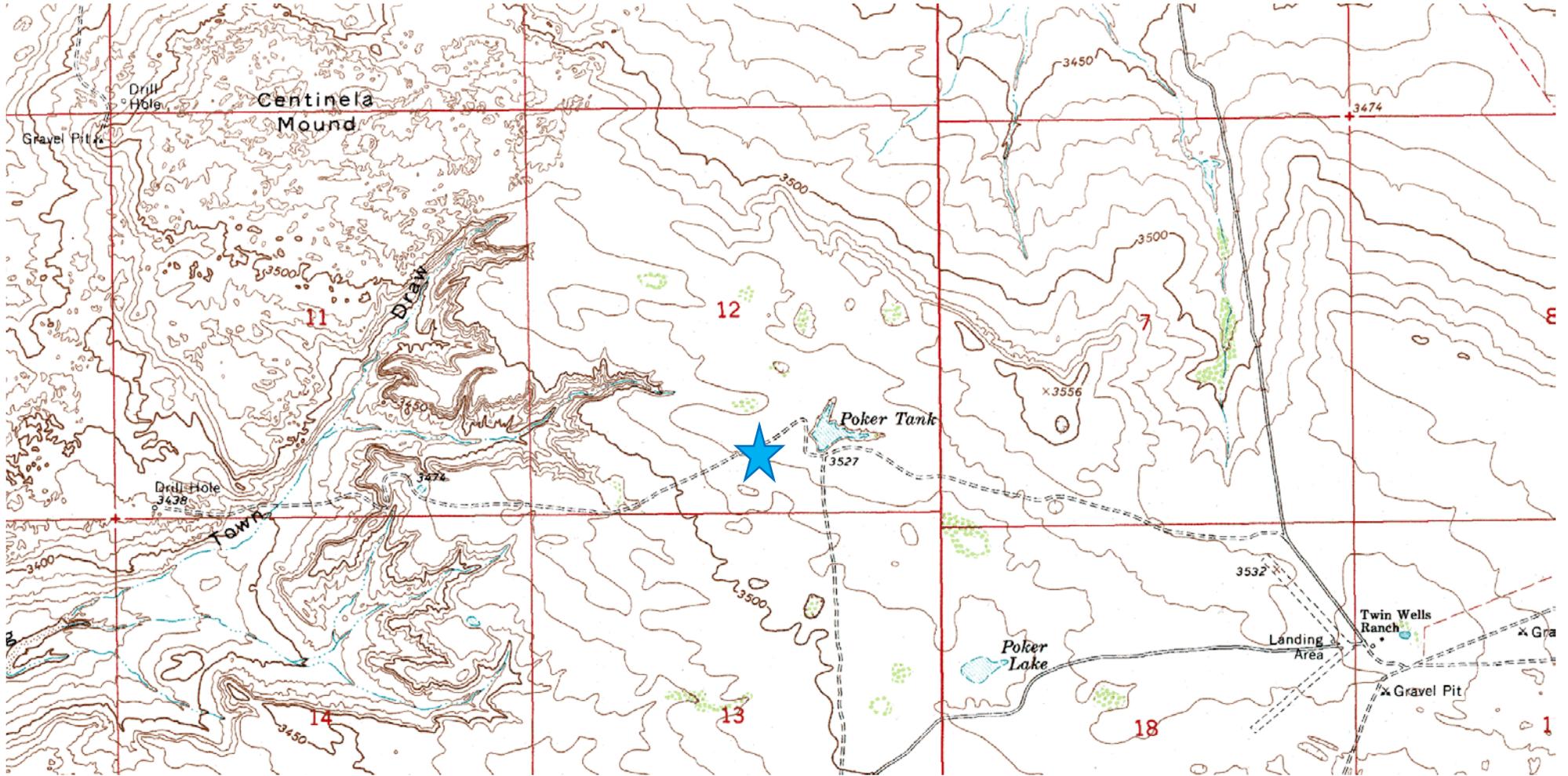
Oxy

Gila 12 Federal #2H Battery



Oxy

Gila 12 Federal #2H Battery



**Laboratory Analytical Results Summary
Gila 12 Federal #2H Battery**

Analyte	Method	Sample Date	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
			11/1/16	11/1/16	11/1/16	11/1/16
			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		0.072	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		0.245	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		0.317	<0.300	n/a	n/a
Chloride	SM4500CI-B		21200	384	1300	64
GRO	TPH 8015M		11.7	<10.0	n/a	n/a
DRO	TPH 8015M		928	<10.0	n/a	n/a

Analyte	Method	Sample Date	SP4 @ 1'	SP4 @ 2'
			11/1/16	11/1/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a
Toluene	BTEX 8021B		<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	n/a
Chloride	SM4500CI-B		528	432
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		12.6	n/a

Analyte	Method	Sample Date	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
			11/1/16	11/1/16	11/1/16	11/1/16
			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		0.077	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		0.256	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		0.333	<0.300	n/a	n/a
Chloride	SM4500CI-B		19200	288	288	80
GRO	TPH 8015M		13.4	<10.0	n/a	n/a
DRO	TPH 8015M		1100	<10.0	n/a	n/a

Analyte	Method	Sample Date	SP5 @ 1'	SP5 @ 2'
			11/1/16	11/1/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a
Toluene	BTEX 8021B		<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	n/a
Chloride	SM4500CI-B		544	368
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a

Analyte	Method	Sample Date	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 6'
			11/1/16	11/1/16	11/1/16	11/1/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.500	<0.050	<0.050	n/a
Toluene	BTEX 8021B		3.89	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		5.49	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		24.1	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		33.5	<0.300	<0.300	n/a
Chloride	SM4500CI-B		17600	7460	2120	80
GRO	TPH 8015M		1230	<10.0	<10.0	n/a
DRO	TPH 8015M		8520	12.6	<10.0	n/a

November 09, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: GILA 12 FEDERAL #2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/02/16 17:00.

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

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:	11/02/2016	Sampling Date:	11/01/2016
Reported:	11/09/2016	Sampling Type:	Soil
Project Name:	GILA 12 FEDERAL #2H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ 1' (H602466-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2016	ND	2.26	113	2.00	0.514	
Toluene*	<0.050	0.050	11/08/2016	ND	2.31	116	2.00	0.484	
Ethylbenzene*	0.072	0.050	11/08/2016	ND	2.21	111	2.00	0.0411	
Total Xylenes*	0.245	0.150	11/08/2016	ND	6.72	112	6.00	0.101	
Total BTEX	0.317	0.300	11/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	11/03/2016	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11.7	10.0	11/05/2016	ND	194	97.1	200	0.233	
DRO >C10-C28	928	10.0	11/05/2016	ND	195	97.5	200	0.433	

Surrogate: 1-Chlorooctane 107 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 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:	11/02/2016	Sampling Date:	11/01/2016
Reported:	11/09/2016	Sampling Type:	Soil
Project Name:	GILA 12 FEDERAL #2H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ 2' (H602466-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2016	ND	2.26	113	2.00	0.514	
Toluene*	<0.050	0.050	11/08/2016	ND	2.31	116	2.00	0.484	
Ethylbenzene*	<0.050	0.050	11/08/2016	ND	2.21	111	2.00	0.0411	
Total Xylenes*	<0.150	0.150	11/08/2016	ND	6.72	112	6.00	0.101	
Total BTEX	<0.300	0.300	11/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/03/2016	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2016	ND	194	97.1	200	0.233	
DRO >C10-C28	<10.0	10.0	11/05/2016	ND	195	97.5	200	0.433	

Surrogate: 1-Chlorooctane 98.3 % 35-147
Surrogate: 1-Chlorooctadecane 88.2 % 28-171
Sample ID: SP 1 @ 3' (H602466-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	11/03/2016	ND	416	104	400	3.77	

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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:	11/02/2016	Sampling Date:	11/01/2016
Reported:	11/09/2016	Sampling Type:	Soil
Project Name:	GILA 12 FEDERAL #2H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ 4' (H602466-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/03/2016	ND	416	104	400	3.77	

Sample ID: SP 2 @ 1' (H602466-05)

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	11/08/2016	ND	2.26	113	2.00	0.514	
Toluene*	<0.050	0.050	11/08/2016	ND	2.31	116	2.00	0.484	
Ethylbenzene*	0.077	0.050	11/08/2016	ND	2.21	111	2.00	0.0411	
Total Xylenes*	0.256	0.150	11/08/2016	ND	6.72	112	6.00	0.101	
Total BTEX	0.333	0.300	11/08/2016	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19200	16.0	11/03/2016	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.4	10.0	11/05/2016	ND	194	97.1	200	0.233	
DRO >C10-C28	1100	10.0	11/05/2016	ND	195	97.5	200	0.433	

Surrogate: 1-Chlorooctane 116 % 35-147

Surrogate: 1-Chlorooctadecane 115 % 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:	11/02/2016	Sampling Date:	11/01/2016
Reported:	11/09/2016	Sampling Type:	Soil
Project Name:	GILA 12 FEDERAL #2H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 @ 2' (H602466-06)

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	11/08/2016	ND	2.26	113	2.00	0.514	
Toluene*	<0.050	0.050	11/08/2016	ND	2.31	116	2.00	0.484	
Ethylbenzene*	<0.050	0.050	11/08/2016	ND	2.21	111	2.00	0.0411	
Total Xylenes*	<0.150	0.150	11/08/2016	ND	6.72	112	6.00	0.101	
Total BTEX	<0.300	0.300	11/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/03/2016	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2016	ND	194	97.1	200	0.233	
DRO >C10-C28	<10.0	10.0	11/05/2016	ND	195	97.5	200	0.433	

Surrogate: 1-Chlorooctane 111 % 35-147
Surrogate: 1-Chlorooctadecane 103 % 28-171
Sample ID: SP 2 @ 3' (H602466-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/03/2016	ND	416	104	400	3.77	

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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:	11/02/2016	Sampling Date:	11/01/2016
Reported:	11/09/2016	Sampling Type:	Soil
Project Name:	GILA 12 FEDERAL #2H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 @ 4' (H602466-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/03/2016	ND	416	104	400	3.77	

Sample ID: SP 3 @ 1' (H602466-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/08/2016	ND	2.26	113	2.00	0.514	
Toluene*	3.89	0.500	11/08/2016	ND	2.31	116	2.00	0.484	
Ethylbenzene*	5.49	0.500	11/08/2016	ND	2.21	111	2.00	0.0411	
Total Xylenes*	24.1	1.50	11/08/2016	ND	6.72	112	6.00	0.101	
Total BTEX	33.5	3.00	11/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17600	16.0	11/03/2016	ND	416	104	400	3.77	

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	1230	50.0	11/05/2016	ND	194	97.1	200	0.233		
DRO >C10-C28	8520	50.0	11/05/2016	ND	195	97.5	200	0.433		

Surrogate: 1-Chlorooctane 241 % 35-147

Surrogate: 1-Chlorooctadecane 223 % 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:	11/02/2016	Sampling Date:	11/01/2016
Reported:	11/09/2016	Sampling Type:	Soil
Project Name:	GILA 12 FEDERAL #2H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 3 @ 3' (H602466-10)

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	11/08/2016	ND	2.26	113	2.00	0.514	
Toluene*	<0.050	0.050	11/08/2016	ND	2.31	116	2.00	0.484	
Ethylbenzene*	<0.050	0.050	11/08/2016	ND	2.21	111	2.00	0.0411	
Total Xylenes*	<0.150	0.150	11/08/2016	ND	6.72	112	6.00	0.101	
Total BTEX	<0.300	0.300	11/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7460	16.0	11/03/2016	ND	432	108	400	0.00	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2016	ND	194	97.1	200	0.233	
DRO >C10-C28	12.6	10.0	11/05/2016	ND	195	97.5	200	0.433	

Surrogate: 1-Chlorooctane 116 % 35-147
Surrogate: 1-Chlorooctadecane 108 % 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:	11/02/2016	Sampling Date:	11/01/2016
Reported:	11/09/2016	Sampling Type:	Soil
Project Name:	GILA 12 FEDERAL #2H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 3 @ 5' (H602466-11)

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	11/08/2016	ND	2.26	113	2.00	0.514	
Toluene*	<0.050	0.050	11/08/2016	ND	2.31	116	2.00	0.484	
Ethylbenzene*	<0.050	0.050	11/08/2016	ND	2.21	111	2.00	0.0411	
Total Xylenes*	<0.150	0.150	11/08/2016	ND	6.72	112	6.00	0.101	
Total BTEX	<0.300	0.300	11/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	11/03/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2016	ND	194	97.1	200	0.233	
DRO >C10-C28	<10.0	10.0	11/05/2016	ND	195	97.5	200	0.433	

Surrogate: 1-Chlorooctane 110 % 35-147

Surrogate: 1-Chlorooctadecane 93.9 % 28-171

Sample ID: SP 3 @ 6' (H602466-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/03/2016	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/02/2016	Sampling Date:	11/01/2016
Reported:	11/09/2016	Sampling Type:	Soil
Project Name:	GILA 12 FEDERAL #2H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 4 @ 1' (H602466-13)

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	11/08/2016	ND	2.26	113	2.00	0.514	
Toluene*	<0.050	0.050	11/08/2016	ND	2.31	116	2.00	0.484	
Ethylbenzene*	<0.050	0.050	11/08/2016	ND	2.21	111	2.00	0.0411	
Total Xylenes*	<0.150	0.150	11/08/2016	ND	6.72	112	6.00	0.101	
Total BTEX	<0.300	0.300	11/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	11/03/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2016	ND	194	97.1	200	0.233	
DRO >C10-C28	12.6	10.0	11/05/2016	ND	195	97.5	200	0.433	

Surrogate: 1-Chlorooctane 104 % 35-147
Surrogate: 1-Chlorooctadecane 91.2 % 28-171
Sample ID: SP 4 @ 2' (H602466-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	11/03/2016	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/02/2016	Sampling Date:	11/01/2016
Reported:	11/09/2016	Sampling Type:	Soil
Project Name:	GILA 12 FEDERAL #2H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 5 @ 1' (H602466-15)

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	11/08/2016	ND	2.17	109	2.00	3.85	
Toluene*	<0.050	0.050	11/08/2016	ND	2.21	110	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/08/2016	ND	2.12	106	2.00	2.84	
Total Xylenes*	<0.150	0.150	11/08/2016	ND	6.43	107	6.00	2.45	
Total BTEX	<0.300	0.300	11/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	11/03/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2016	ND	194	97.1	200	0.233	
DRO >C10-C28	<10.0	10.0	11/05/2016	ND	195	97.5	200	0.433	

Surrogate: 1-Chlorooctane 115 % 35-147
Surrogate: 1-Chlorooctadecane 99.1 % 28-171
Sample ID: SP 5 @ 2' (H602466-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/03/2016	ND	432	108	400	0.00	

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* = Accredited Analyte

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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



Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:					
Project Manager: Cliff Brunson		Company: Oxy					
Address: P.O. Box 805		Attn: Casey Summers					
City: Hobbs		Address:					
State: NM Zip: 88241		City:					
Phone #: 575-397-6388		State:					
Fax #: 575-397-0397		Zip:					
Project #: Project Owner: Oxy		Phone #:					
Project Name: GILA 12 FEDERAL #2H BATTERY		Fax #:					
Project Location: EDDY COUNTY, NM							
Sampler Name: ROGER HERNANDEZ							
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	DATE	TIME	CI	BTEX	TPH
H002466		# CONTAINERS	11/1/16	11:29 AM	✓	✓	✓
01	SP1 @ 1'	✓	11/1/16	11:50 AM	✓	✓	✓
02	SP1 @ 2'	✓	11/1/16	12:00 PM	✓	✓	✓
03	SP1 @ 3'	✓	11/1/16	12:10 PM	✓	✓	✓
04	SP1 @ 4'	✓	11/1/16	12:40 PM	✓	✓	✓
05	SP2 @ 1'	✓	11/1/16	12:55 PM	✓	✓	✓
06	SP2 @ 2'	✓	11/1/16	1:10 PM	✓	✓	✓
07	SP2 @ 3'	✓	11/1/16	1:20 PM	✓	✓	✓
08	SP2 @ 4'	✓	11/1/16	1:36 PM	✓	✓	✓
09	SP3 @ 1'	✓	11/1/16	2:05 PM	✓	✓	✓
10	SP3 @ 3'	✓					

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Relinquished By: *Casey Summers* Date: 11/1/16 Time: 5:00pm

Received By: *Roger Hernandez* Date: 11/1/16 Time: 5:00pm

Delivered By: (Circle One) UPS - Bus - Other: **1.5c #75**

Sample Condition: Cool Intact Yes No No

CHECKED BY: *[Signature]*

Phone Result: Yes No

Fax Result: Yes No

REMARKS:

Add'l Phone #:

Add'l Fax #:

From: Bratcher, Mike, EMNRD
To: [Cliff Brunson](#)
Cc: [Patterson, Heather, EMNRD](#); [Casey Summers](#); jennifer_duarte@oxy.com; [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#); [Weaver, Crystal, EMNRD](#); [Tucker, Shelly](#)
Subject: RE: OXY Gila 12 Federal #2H Battery - Remediation Plan
Date: Tuesday, November 29, 2016 3:53:55 PM

RE: OXY USA * Gila 12 Fed 2H * 2RP-3965 * DOR: 10/21/16

Cliff,

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

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]
Sent: Monday, November 21, 2016 8:24 AM
To: Bratcher, Mike, EMNRD
Cc: Patterson, Heather, EMNRD; Casey Summers; jennifer_duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY Gila 12 Federal #2H Battery - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY Gila 12 Federal #2H Battery 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 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



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From: Tucker, Shelly
To: [Cliff Brunson](#)
Cc: [Casey Summers](#); jennifer_duarte@oxy.com; [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)
Subject: Re: OXY Gila 12 Federal #2H Battery - Remediation Plan
Date: Monday, November 21, 2016 3:46:12 PM

BLM 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
O&G Spill/Release Coordinator

Bureau of Land Management
620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular
575.234.6235 - Emergency Spill Number

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.

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On Mon, Nov 21, 2016 at 8:23 AM, Cliff Brunson <cbrunson@bbcinternational.com> wrote:

Shelly,

I have attached a remediation plan for the OXY Gila 12 Federal #2H Battery 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



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