

Closure Report

Site Description

Site Name:	Sundance 10 Federal #1 CTB
Company:	Oxy Permian Ltd.
Legal Description:	U/L D, Section 10, T24S, R31E
County:	Eddy County, NM
GPS Coordinates:	N 32.23795° W 103.77349°

Release Data

Date of Release:	08/10/2015
Type of Release:	Oil
Source of Release:	Valve on circulating line left open to wrong tank
Volume of Release:	133 bbls
Volume Recovered:	110 bbls

Remediation Specifications

Remediation Parameters:	Excavate the entire leak area to a depth of 2 feet. Backfill the site with clean soil.	
Remediation Activities:	April 2016	
Plan Sent to OCD:	09/26/2015	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	09/30/2015	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	09/26/2015	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	09/28/2015	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 08/13/2015
Final C-141	Signed 04/27/2016
Site Diagram	August 2015
Groundwater Plot	375'
TOPO Maps	August 2015
Lab Summary	08/13/2015
Lab Analysis	08/13/2015
Correspondence	Request and approval of remediation plan via email

Request for Closure

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

Cliff Brunson, President of BBC International Inc.

05/02/2016

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(432) 685-5824
Facility Name	Sundance 10 Federal #1 CTB	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	API No. 30-015-28122

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	10	24S	31E					Eddy County, NM

Latitude N 32.23795° Longitude W 103.77349°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	133 bbls	Volume Recovered	110 bbls
Source of Release	Valve on circulating line left open to wrong tank	Date and Hour of Occurrence	08/10/2015	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, BBC International	Date and Hour	08/10/2015 @ 4:03 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.*

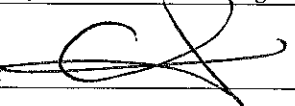
Describe Cause of Problem and Remedial Action Taken.*

The valve on the circulating line was left open to the wrong tank spilling 133 bbls of oil onto the ground. A vacuum truck recovered 110 bbls and the valve was closed.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 75' x 50' on location within the containment area. 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: 	OIL CONSERVATION DIVISION		
Printed Name: Chancey Summers	Approved by District Supervisor:		
Title: HES Advisor	Approval Date:	Expiration Date:	
E-mail Address: Chancey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8-13-15	Phone: (432) 685-5824		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised 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	Sundance 10 Federal #1 CTB	Facility Type	Battery

Surface Owner	BLM	Mineral Owner		API No.	30-015-28122
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	10	24S	31E					Eddy County, NM

Latitude N 32.23795° Longitude W 103.77349°

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Type of Release	Oil	Volume of Release	133 bbls	Volume Recovered	110 bbls
Source of Release	Valve on circulating line left open to wrong tank	Date and Hour of Occurrence	08/10/2015	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, BBC International	Date and Hour	08/10/2015 @ 4:03 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 valve on the circulating line was left open to the wrong tank spilling 133 bbls of oil onto the ground. A vacuum truck recovered 110 bbls and the valve was closed.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 75' x 50' on location within the containment area. Remediation was completed in accordance with a remediation plan approved by both Mike Bratcher of NMOCD via email 09/30/2015 and Shelly Tucker of the BLM via email on 09/28/2015.

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.

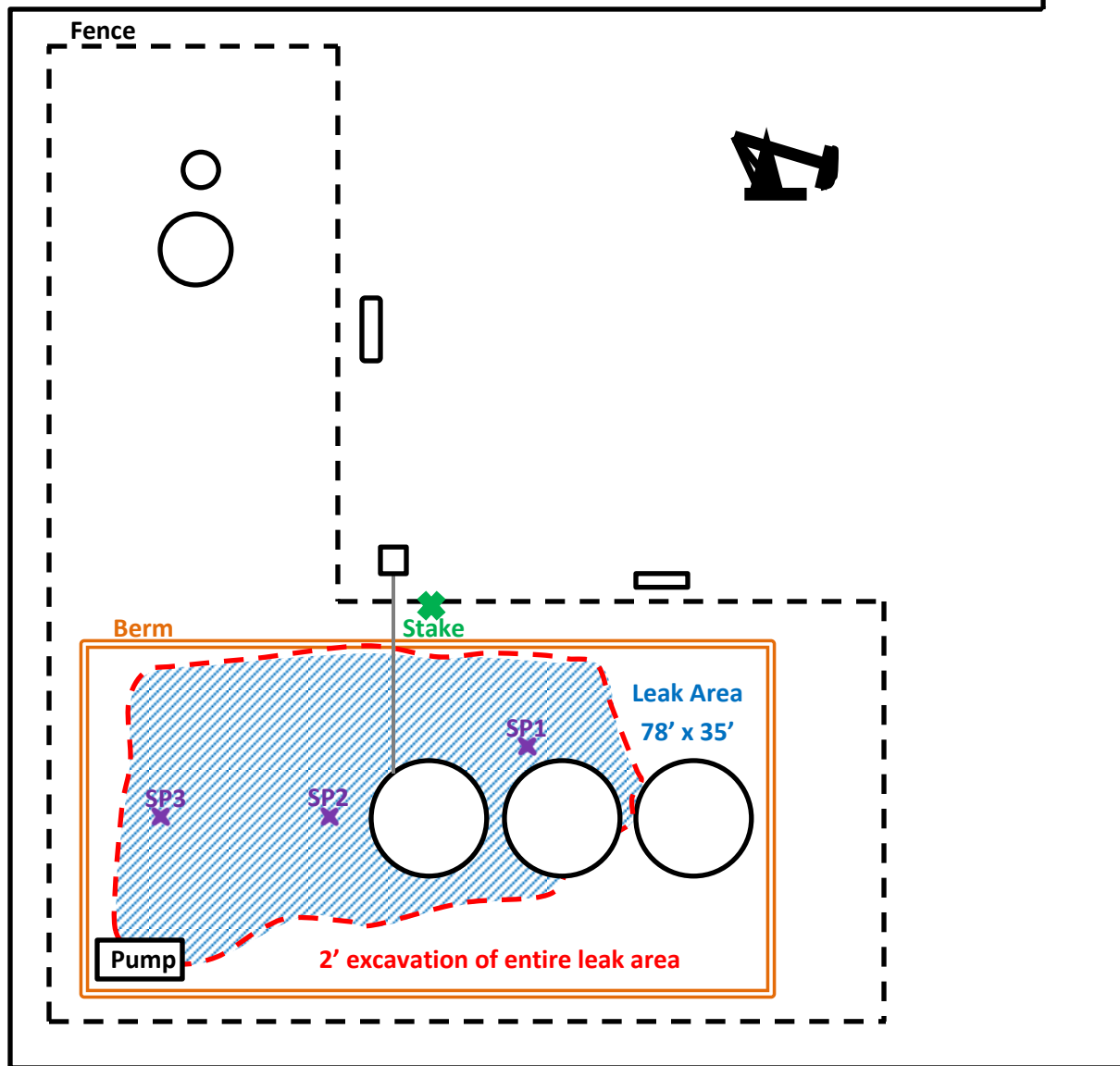
Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Casey Summers		Approved by Environmental Specialist:	
Title: NM Environmental Advisor		Approval Date:	Expiration Date:
E-mail Address: Casey_Summers@oxy.com		Conditions of Approval:	
Date: <u>4-27-16</u> Phone: (575) 513-8289		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary



Oxy
Sundance 10 Federal #1 CTB

Road



U/L D, Section 10, T24S, R31E
Eddy County, NM
N 32.23795° W 103.77349°
API# 30-015-28122

BBC International, Inc.

Oxy
Sundance 10 Federal #1 CTB

Date: 8/13/15

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2015



Groundwater Plot

Oxy Sundance 10 Federal #1 CTB

County
Eddy

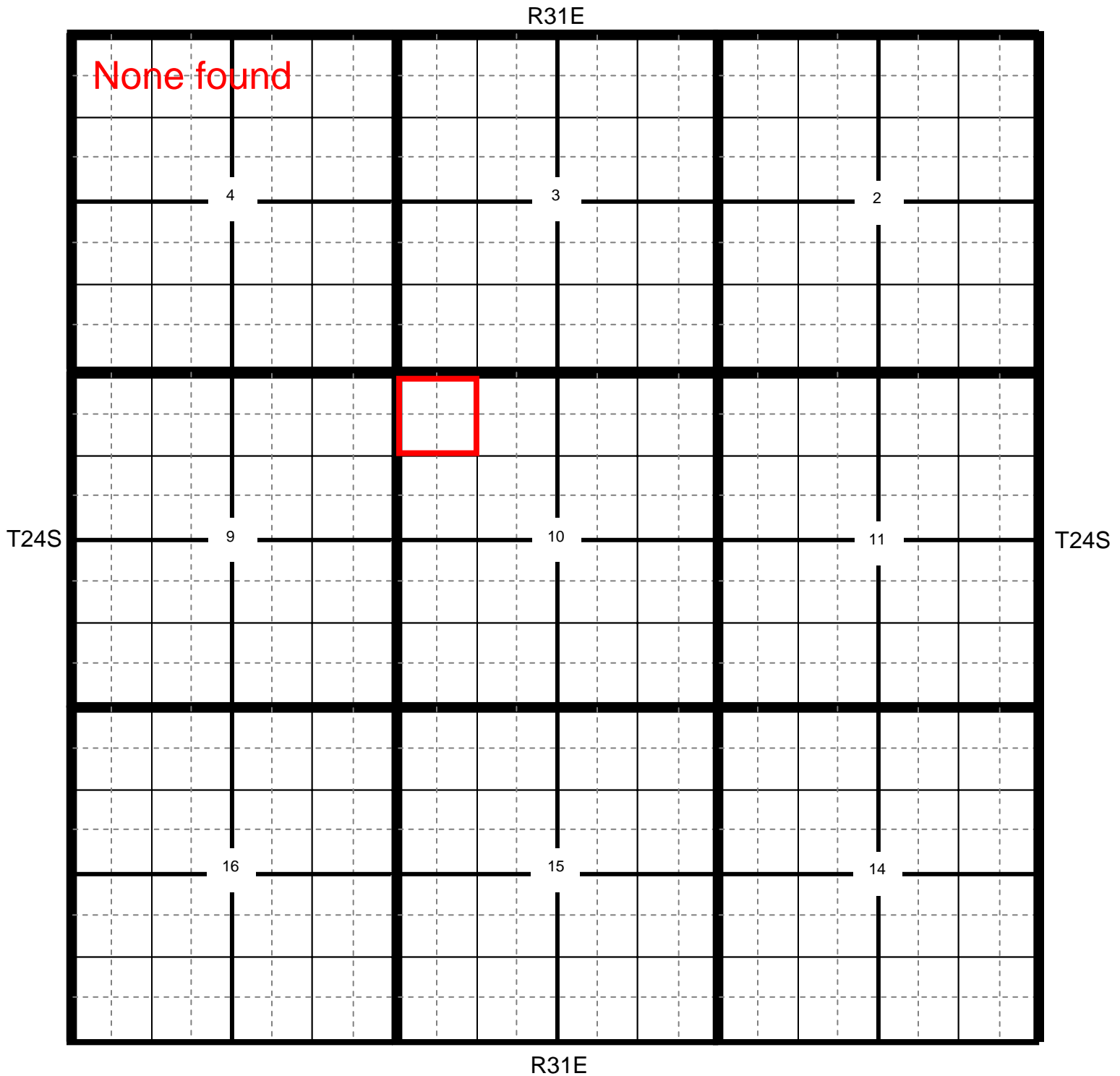
Unit Letter
D

Section
10

Township
24S

Range
31EnumE

Trend Map 375'



Location

OCD

USGS

SEO

All Databases

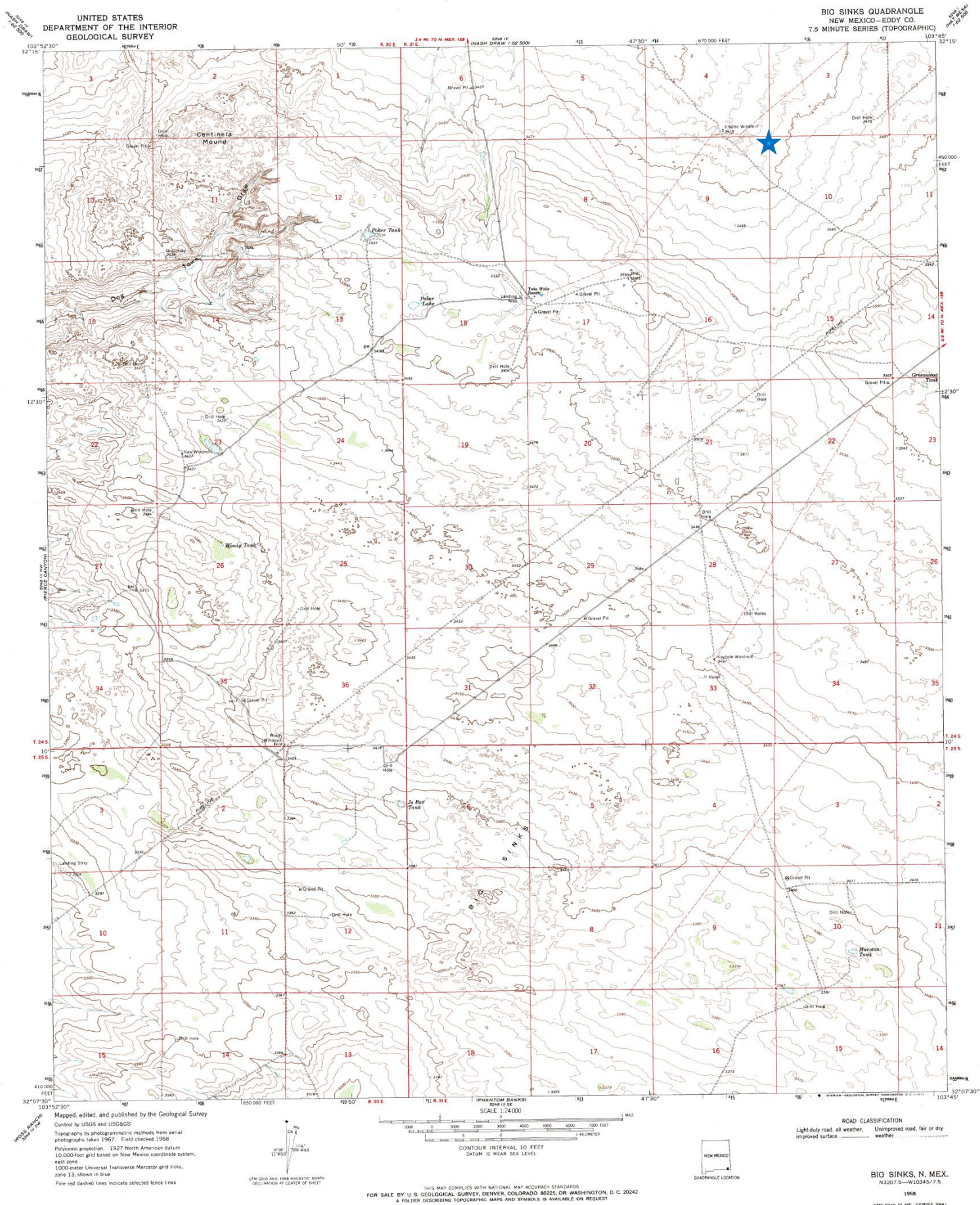
Oxy Sundance 10 Federal #1 CTB

County Eddy	Unit Letter D	Section 10	Township 24S	Range 31E
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Trend Map 375'

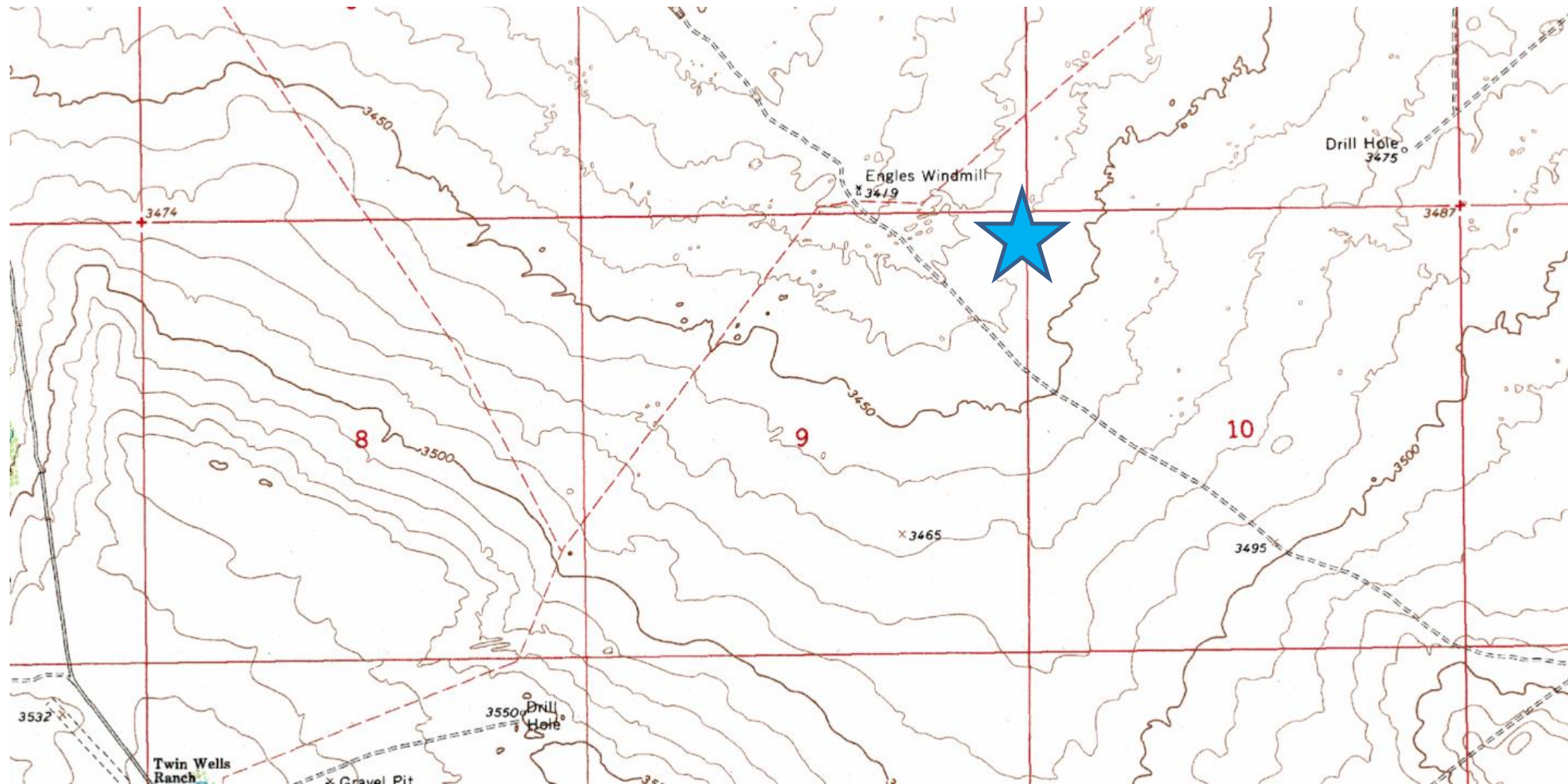
1		2	
NW/NW Unit Letter D	NE/NW Unit Letter C	NW/NE Unit Letter B	NE/NE None found
SW/NW Unit Letter E	SE/NW Unit Letter F	SW/NE Unit Letter G	SE/NE Unit Letter H
NW/SW Unit Letter L	NE/SW Unit Letter K	NW/SE Unit Letter J	NE/SE Unit Letter I
SW/SW Unit Letter M	SE/SW Unit Letter N	SW/SE Unit Letter O	SE/SE Unit Letter P
3		4	

Oxy



Oxy

Sundance 10 Federal #1 CTB



**Laboratory Analytical Results Summary
Sundance 10 Federal #1 CTB**

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	8/13/15	8/13/15	8/13/15	8/13/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<2.00	3.35	0.361	<0.050
Toluene	BTEX 8021B		7.43	30	3.54	<0.050
Ethylbenzene	BTEX 8021B		11.3	19.8	2.66	0.092
Total Xylenes	BTEX 8021B		55.8	82.8	11.5	0.482
Total BTEX	BTEX 8021B		74.6	136	18.1	0.574
Chloride	SM4500Cl-B		144	<16.0	<16.0	<16.0
GRO	TPH 8015M		3140	4930	471	21.9
DRO	TPH 8015M		40700	17500	1600	107

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	8/13/15	8/13/15	8/13/15	8/13/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<2.00	<1.00	<0.050	<0.050
Toluene	BTEX 8021B		2.85	<1.00	0.42	<0.050
Ethylbenzene	BTEX 8021B		8.42	2.18	0.383	<0.050
Total Xylenes	BTEX 8021B		43.9	14.4	1.83	0.237
Total BTEX	BTEX 8021B		55.2	16.5	2.63	<0.300
Chloride	SM4500Cl-B		144	48	<16.0	<16.0
GRO	TPH 8015M		2490	1330	104	13.6
DRO	TPH 8015M		32500	15400	454	65.6

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	8/13/15	8/13/15	8/13/15	8/13/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<2.00	<1.00	<0.050	<0.050
Toluene	BTEX 8021B		4.11	1.74	<0.050	<0.050
Ethylbenzene	BTEX 8021B		9.75	6.25	0.084	<0.050
Total Xylenes	BTEX 8021B		50.3	33.4	0.408	0.224
Total BTEX	BTEX 8021B		64.1	41.4	0.493	<0.300
Chloride	SM4500Cl-B		192	48	<16.0	<16.0
GRO	TPH 8015M		2940	1740	26.3	13
DRO	TPH 8015M		36200	13500	117	71.6



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

August 19, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SUNDANCE 10 # 1

Enclosed are the results of analyses for samples received by the laboratory on 08/14/15 10:31.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/14/2015
 Reported: 08/19/2015
 Project Name: SUNDANCE 10 # 1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/13/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: SP1 @ SURFACE (H502118-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	7.43	2.00	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	11.3	2.00	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	55.8	6.00	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTX	74.6	12.0	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/17/2015	ND	432	108	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	3140	200	08/14/2015	ND	185	92.4	200	7.73		
DRO >C10-C28	40700	200	08/14/2015	ND	193	96.3	200	12.4		

Surrogate: 1-Chlorooctane 197 % 47.2-157

Surrogate: 1-Chlorooctadecane 740 % 52.1-176

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: 08/14/2015
Reported: 08/19/2015
Project Name: SUNDANCE 10 # 1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/13/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP1 @ 1' (H502118-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.35	2.00	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	30.0	2.00	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	19.8	2.00	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	82.8	6.00	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTEX	136	12.0	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137

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	08/17/2015	ND	432	108	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	4930	100	08/14/2015	ND	185	92.4	200	7.73	
DRO >C10-C28	17500	100	08/14/2015	ND	193	96.3	200	12.4	

Surrogate: 1-Chlorooctane 195 % 47.2-157

Surrogate: 1-Chlorooctadecane 251 % 52.1-176

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:	08/14/2015	Sampling Date:	08/13/2015
Reported:	08/19/2015	Sampling Type:	Soil
Project Name:	SUNDANCE 10 # 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP1 @ 2' (H502118-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.361	0.200	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	3.54	0.200	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	2.66	0.200	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	11.5	0.600	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTX	18.1	1.20	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.4 % 85.6-137

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	08/17/2015	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	471	50.0	08/14/2015	ND	185	92.4	200	7.73	
DRO >C10-C28	1600	50.0	08/14/2015	ND	193	96.3	200	12.4	

Surrogate: 1-Chlorooctane 112 % 47.2-157

Surrogate: 1-Chlorooctadecane 100 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 08/14/2015
Reported: 08/19/2015
Project Name: SUNDANCE 10 # 1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/13/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP1 @ 3' (H502118-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	<0.050	0.050	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	0.092	0.050	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	0.482	0.150	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTEX	0.574	0.300	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

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	08/17/2015	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	21.9	10.0	08/14/2015	ND	185	92.4	200	7.73	
DRO >C10-C28	107	10.0	08/14/2015	ND	193	96.3	200	12.4	

Surrogate: 1-Chlorooctane 96.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.8 % 52.1-176

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: 08/14/2015
Reported: 08/19/2015
Project Name: SUNDANCE 10 # 1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/13/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP2 @ SURFACE (H502118-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	2.85	2.00	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	8.42	2.00	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	43.9	6.00	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTEX	55.2	12.0	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/18/2015	ND	432	108	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	2490	100	08/14/2015	ND	185	92.4	200	7.73	
DRO >C10-C28	32500	100	08/14/2015	ND	193	96.3	200	12.4	

Surrogate: 1-Chlorooctane 173 % 47.2-157

Surrogate: 1-Chlorooctadecane 590 % 52.1-176

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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:	08/14/2015	Sampling Date:	08/13/2015
Reported:	08/19/2015	Sampling Type:	Soil
Project Name:	SUNDANCE 10 # 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP2 @ 1' (H502118-06)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	<1.00	1.00	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	2.18	1.00	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	14.4	3.00	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTX	16.5	6.00	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/18/2015	ND	432	108	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	1330	100	08/14/2015	ND	185	92.4	200	7.73	
DRO >C10-C28	15400	100	08/14/2015	ND	193	96.3	200	12.4	

Surrogate: 1-Chlorooctane 202 % 47.2-157

Surrogate: 1-Chlorooctadecane 227 % 52.1-176

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Analytical Results For:

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

Received: 08/14/2015
Reported: 08/19/2015
Project Name: SUNDANCE 10 # 1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/13/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP2 @ 2' (H502118-07)

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	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	0.420	0.050	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	0.383	0.050	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	1.83	0.150	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTX	2.63	0.300	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 85.6-137

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	08/18/2015	ND	432	108	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	104	10.0	08/14/2015	ND	185	92.4	200	7.73	
DRO >C10-C28	454	10.0	08/14/2015	ND	193	96.3	200	12.4	

Surrogate: 1-Chlorooctane 97.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.0 % 52.1-176

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Analytical Results For:

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

Received: 08/14/2015
Reported: 08/19/2015
Project Name: SUNDANCE 10 # 1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/13/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP2 @ 3' (H502118-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2015	ND	2.26	113	2.00	1.34		
Toluene*	<0.050	0.050	08/18/2015	ND	2.13	107	2.00	2.43		
Ethylbenzene*	<0.050	0.050	08/18/2015	ND	2.28	114	2.00	3.96		
Total Xylenes*	0.237	0.150	08/18/2015	ND	6.40	107	6.00	2.03		
Total BTEX	<0.300	0.300	08/18/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 85.6-137

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	08/18/2015	ND	432	108	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	13.6	10.0	08/14/2015	ND	185	92.4	200	7.73	
DRO >C10-C28	65.6	10.0	08/14/2015	ND	193	96.3	200	12.4	

Surrogate: 1-Chlorooctane 97.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.9 % 52.1-176

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Analytical Results For:

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

Received: 08/14/2015
Reported: 08/19/2015
Project Name: SUNDANCE 10 # 1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/13/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP3 @ SURFACE (H502118-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	4.11	2.00	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	9.75	2.00	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	50.3	6.00	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTX	64.1	12.0	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/18/2015	ND	432	108	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	2940	200	08/14/2015	ND	185	92.4	200	7.73	
DRO >C10-C28	36200	200	08/14/2015	ND	193	96.3	200	12.4	

Surrogate: 1-Chlorooctane 198 % 47.2-157

Surrogate: 1-Chlorooctadecane 630 % 52.1-176

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Analytical Results For:

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

Received:	08/14/2015	Sampling Date:	08/13/2015
Reported:	08/19/2015	Sampling Type:	Soil
Project Name:	SUNDANCE 10 # 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP3 @ 1' (H502118-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	1.74	1.00	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	6.25	1.00	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	33.4	3.00	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTEX	41.4	6.00	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/18/2015	ND	432	108	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	1740	100	08/14/2015	ND	185	92.4	200	7.73	
DRO >C10-C28	13500	100	08/14/2015	ND	193	96.3	200	12.4	

Surrogate: 1-Chlorooctane 151 % 47.2-157

Surrogate: 1-Chlorooctadecane 215 % 52.1-176

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Analytical Results For:

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

Received: 08/14/2015
Reported: 08/19/2015
Project Name: SUNDANCE 10 # 1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/13/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP3 @ 2' (H502118-11)

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	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	<0.050	0.050	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	0.084	0.050	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	0.408	0.150	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTEX	0.493	0.300	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 85.6-137

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	08/18/2015	ND	432	108	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	26.3	10.0	08/14/2015	ND	185	92.4	200	7.73	
DRO >C10-C28	117	10.0	08/14/2015	ND	193	96.3	200	12.4	

Surrogate: 1-Chlorooctane 78.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.6 % 52.1-176

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Analytical Results For:

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

Received: 08/14/2015
Reported: 08/19/2015
Project Name: SUNDANCE 10 # 1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/13/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP3 @ 3' (H502118-12)

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	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	<0.050	0.050	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	<0.050	0.050	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	0.224	0.150	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTX	<0.300	0.300	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 85.6-137

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	08/18/2015	ND	432	108	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	13.0	10.0	08/14/2015	ND	185	92.4	200	7.73	
DRO >C10-C28	71.6	10.0	08/14/2015	ND	193	96.3	200	12.4	

Surrogate: 1-Chlorooctane 91.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.8 % 52.1-176

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

142

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		P.O. #:		Company:	
Address: P.O. Box 805		City: Hobbs		State: NM Zip: 88241	
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:	
Project #:		Project Owner: City		City:	
Project Name: Sump Pit #1		State:		Zip:	
Project Location:		Phone #:		Fax #:	
Sample Name: BOILER HEAVY METALS		FOR LAB USE ONLY		SAMPLING	
Lab I.D.		Sample I.D.		DATE	
H502118		SP1 @ SURFACE		8/13/15 8:45	
		@ 1'		8/13/15 9:12	
		@ 2'		8/13/15 9:52	
		SP2 @ SURFACE		8/13/15 9:46	
		@ 1'		8/13/15 10:00	
		@ 2'		8/13/15 10:20	
		@ 3'		8/13/15 10:42	
		SP3 @ SURFACE		8/13/15 11:00	
		@ 1'		8/13/15 11:20	
				8/13/15 11:42	
				8/13/15 12:00	
				8/13/15 12:20	
				8/13/15 12:42	
				8/13/15 13:00	
				8/13/15 13:20	
				8/13/15 13:42	
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				8/13/15 01:42	
				8/13/15 02:00	
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CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

242

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.
Project Manager: Cliff Brunson

P.O. #:

Address: P.O. Box 805

Company:

City: Hobbs

State: NM Zip: 88241

Attn: CS SUMMERS

Phone #: 575-397-6388

Fax #: 575-397-0397

Address:

Project #:

Project Owner: OM

City:

Project Name:

Sundance NO #1

State: Zip:

Project Location:

Phone #:

Sampler Name:

Roger Hernandez

Fax #:

FOR LAB USE ONLY

MATRIX

PRESERV.

SAMPLING

Lab I.D.

Sample I.D.

H502118

SP3021

(G)RAB OR (C)OMP

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

8/15/05

1230

TPH

BTEX

CHLORIDE

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 analysis. 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 rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 8-14-15

Received By:

Phone Result:

Yes ☐ No ☐

Add'l Phone #:

Fax Result:

Yes ☐ No ☐

Add'l Fax #:

Relinquished By:

Date: 8-14-15

Received By:

Phone Result:

Yes ☐ No ☐

Add'l Phone #:

Fax Result:

Yes ☐ No ☐

Add'l Fax #:

Relinquished By:

Date: 8-14-15

Received By:

Phone Result:

Yes ☐ No ☐

Add'l Phone #:

Fax Result:

Yes ☐ No ☐

Add'l Fax #:

Delivered By: (Circle One)

Date: 8-14-15

Received By:

Phone Result:

Yes ☐ No ☐

Add'l Phone #:

Fax Result:

Yes ☐ No ☐

Add'l Fax #:

Sampler - UPS - Bus - Other:

Date: 8-14-15

Received By:

Phone Result:

Yes ☐ No ☐

Add'l Phone #:

Fax Result:

Yes ☐ No ☐

Add'l Fax #:

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

#54

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Wednesday, September 30, 2015 1:03 PM
To: Cliff Brunson; Shelly Tucker
Cc: Patterson, Heather, EMNRD; Dusty Wilson; Ken Swinney; Jennifer Gilkey; Kathy Purvis; Jennifer_Duarte@oxy.com
Subject: RE: OXY - Sundance 10 Federal #1 CTB - Remediation Plan

RE: OXY USA * Sundance 10 Fed 1 CTB * 30-015-28122 * 2RP-3201 * DOR: 8/10/15

Cliff,

OCD concurs with BLM 9/28/15 approval for remediation of the above referenced release.

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: Saturday, September 26, 2015 2:13 PM
To: Bratcher, Mike, EMNRD; Shelly Tucker
Cc: Patterson, Heather, EMNRD; Dusty Wilson; Ken Swinney; Jennifer Gilkey; Kathy Purvis; Jennifer_Duarte@oxy.com
Subject: OXY - Sundance 10 Federal #1 CTB - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the Oxy Sundance 10 Federal #1 CTB. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

Shelly,

I am requesting BLM approval for the attached remediation plan for this site. Mike Bratcher has agreed to this plan already.

If both of 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

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Kathy Purvis

From: Tucker, Shelly <stucker@blm.gov>
Sent: Monday, September 28, 2015 12:31 PM
To: Cliff Brunson
Cc: Mike Bratcher; Heather Patterson; Dusty Wilson; Ken Swinney; Jennifer Gilkey; Kathy Purvis; Jennifer_Duarte@oxy.com
Subject: Re: OXY - Sundance 10 Federal #1 CTB - Remediation Plan

The BLM accepts/approves you submitted written proposal.

The BLM approval/acceptance 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.

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



On Sat, Sep 26, 2015 at 2:12 PM, Cliff Brunson <cbrunson@bbcinternational.com> wrote:

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the Oxy Sundance 10 Federal #1 CTB. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

Shelly,

I am requesting BLM approval for the attached remediation plan for this site. Mike Bratcher has agreed to this plan already.

If both of 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

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