

Closure Report

Site Description

Site Name:	Littlefield Federal SWD #1
Company:	Chevron
Legal Description:	U/L B, Section 11, T24S, R31E
County:	Eddy County, NM
GPS Coordinates:	N 32.23885° W 103.74665°

Release Data

Date of Release:	12/01/2013
Type of Release:	Produced water
Source of Release:	Triplex pump failure
Volume of Release:	181 bbls
Volume Recovered:	170 bbls

Remediation Specifications

Remediation Parameters:	Excavate the entire leak area to a depth of 1 foot. Install 6 inches of compacted clay. Then, backfill the remainder of the excavation with clean soil.	
Remediation Activities:	07/14/2014 to 08/05/2014	
Plan Sent to OCD:	06/17/2014	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	06/17/2014	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	04/06/2014	Email from Cliff Brunson to James Amos
BLM Approval of Plan:	04/07/2014	Email from James Amos to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 12/06/2013
Final C-141	Signed 08/14/2014
Site Diagram	December 2013
Groundwater Plot	>300'
TOPO Maps	December 2013
Lab Summary	01/16/2014-01/17/2014 and 03/10/2014
Lab Analysis	01/16/2014-01/17/2014 and 03/10/2014
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.

08/14/2014

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	Chevron Delaware Basin	Contact	Bradley Blevins
Address	PO Box 190, Hobbs, NM 88241	Telephone No.	(575) 391-1462
Facility Name	Littlefield Federal SWD #1	Facility Type	Well Location
Surface Owner	BLM	Mineral Owner	API # 30-015-10259

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	11	24S	31E	660	North	1980	East	Eddy County, NM

Latitude N 32.12729° Longitude W 103.74594°

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	181 bbls	Volume Recovered	170 bbls
Source of Release	Triplex pump failure	Date and Hour of Occurrence	12/01/2013 @ 10:00 am	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- NMOCD, James Amos- BLM		
By Whom?	Bradley Blevins	Date and Hour	12/02/2013 @ 3:00 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

A triplex pump failure caused 181 bbls of produced water to leak onto the ground. 170 bbls of fluid were recovered via vacuum truck and the pump was repaired.

Describe Area Affected and Cleanup Action Taken.*

A triplex pump failure caused 181 bbls of produced water to leak onto the ground. 170 bbls of fluid were recovered via vacuum truck and the pump was repaired. Further remediation will be performed 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: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Bradley Blevins	Approved by District Supervisor:		
Title: HE Specialist	Approval Date:	Expiration Date:	
E-mail Address: Bradley.blevins@chk.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 12/6/13 Phone: (575) 391-1462			

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
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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

Name of Company	Chevron Delaware Basin	Contact	Brian Criswell	<input type="checkbox"/> Initial Report	<input checked="" type="checkbox"/> Final Report
Address	PO Box 190, Hobbs, NM 88241	Telephone No.	(575) 263-0409		
Facility Name	Littlefield Federal SWD #1	Facility Type	Well Location		
Surface Owner	BLM	Mineral Owner	API # 30-015-10259		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	11	24S	31E	660	North	1980	East	Eddy County, NM

Latitude N 32.12729° Longitude W 103.74594°

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	181 bbls	Volume Recovered	170 bbls
Source of Release	Triplex pump failure	Date and Hour of Occurrence	12/01/2013 @ 10:00 am	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- NMOCD, James Amos- BLM		
By Whom?	Bradley Blevins	Date and Hour	12/02/2013 @ 3:00 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

A triplex pump failure caused 181 bbls of produced water to leak onto the ground. 170 bbls of fluid were recovered via vacuum truck and the pump was repaired.

Describe Area Affected and Cleanup Action Taken.*

A triplex pump failure caused 181 bbls of produced water to leak onto the ground. 170 bbls of fluid were recovered via vacuum truck and the pump was repaired. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 06/17/2014 and approved by James Amos of the BLM on 04/17/2014.

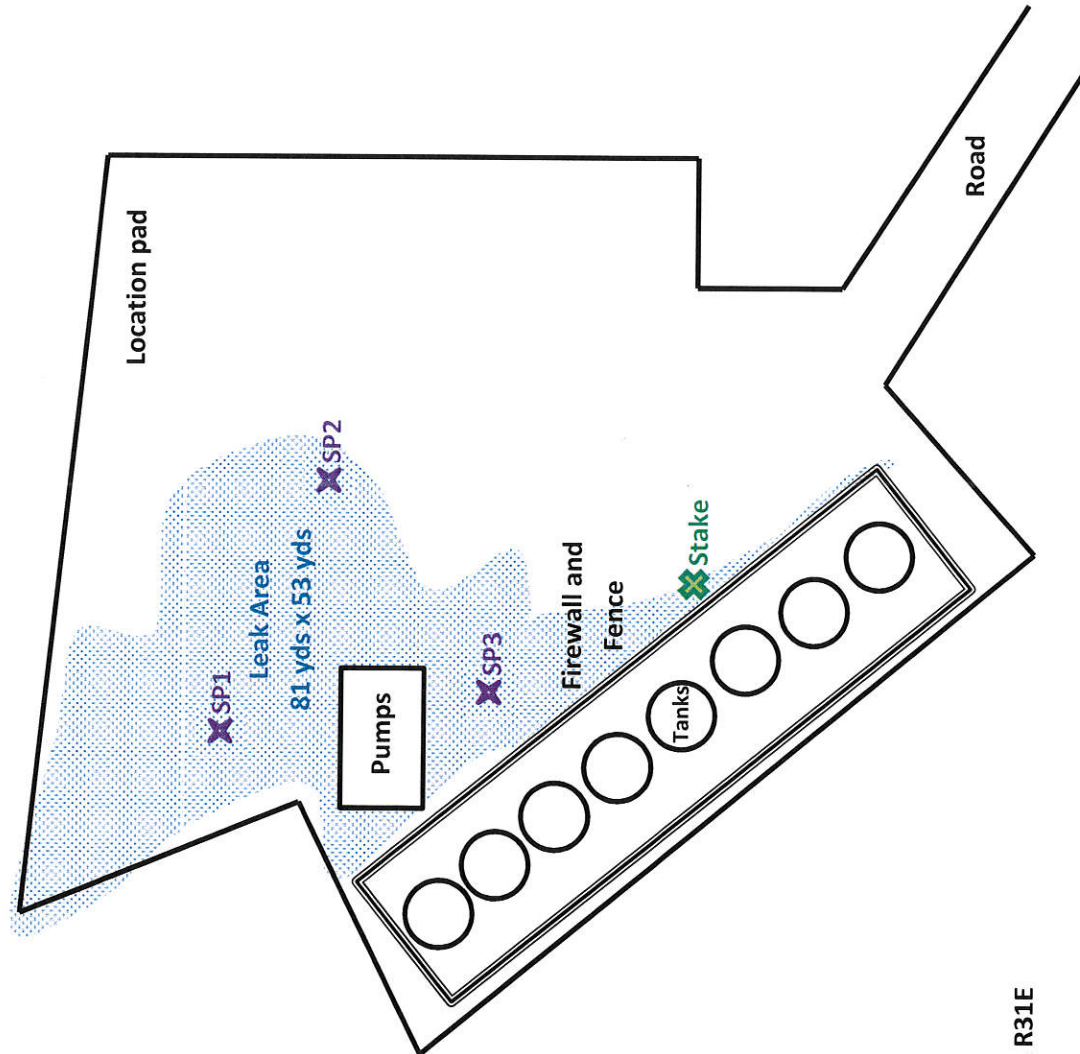
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: Brian Criswell	Approved by District Supervisor:	
Title: Safety Specialist	Approval Date:	Expiration Date:
E-mail Address: brian.criswell@chevron.com	Conditions of Approval:	
Date: 8/14/14 Phone: (575) 263-0409	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary



Chevron
Littlefield Federal SWD #1



U/L B, Section 11, T24S, R31E
660' FNL and 1980' FEL
Eddy County, NM
N 32.23885° W 103.74665° at stake
API# 30-015-10259

BBC International, Inc.	
Chevron	
Littlefield Federal SWD #1	
Date: 12/11/2013	DRWG by: K. Purvis
NOT TO SCALE	File: Chevron 2013



Groundwater Plot

Chevron Littlefield Federal SWD #1

County
Eddy

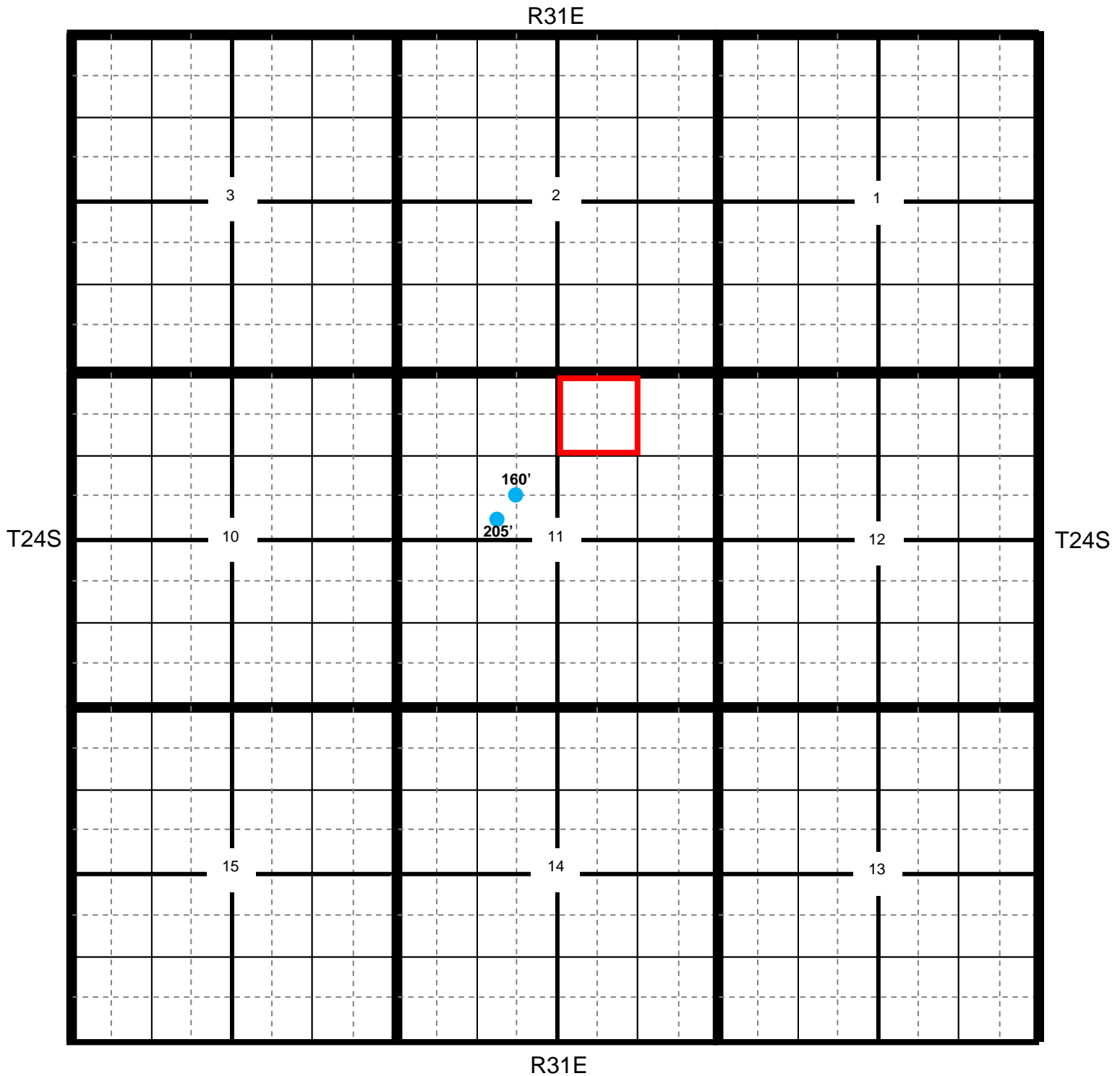
Unit Letter
B

Section
11

Township
24S

Range
31E

Trend Map >300'



Location

OCD

USGS

SEO

All Databases

Chevron Littlefield Federal SWD #1

County Eddy **Unit Letter** B **Section** 11 **Township** 24S **Range** 31E

Trend Map >300'

1

2

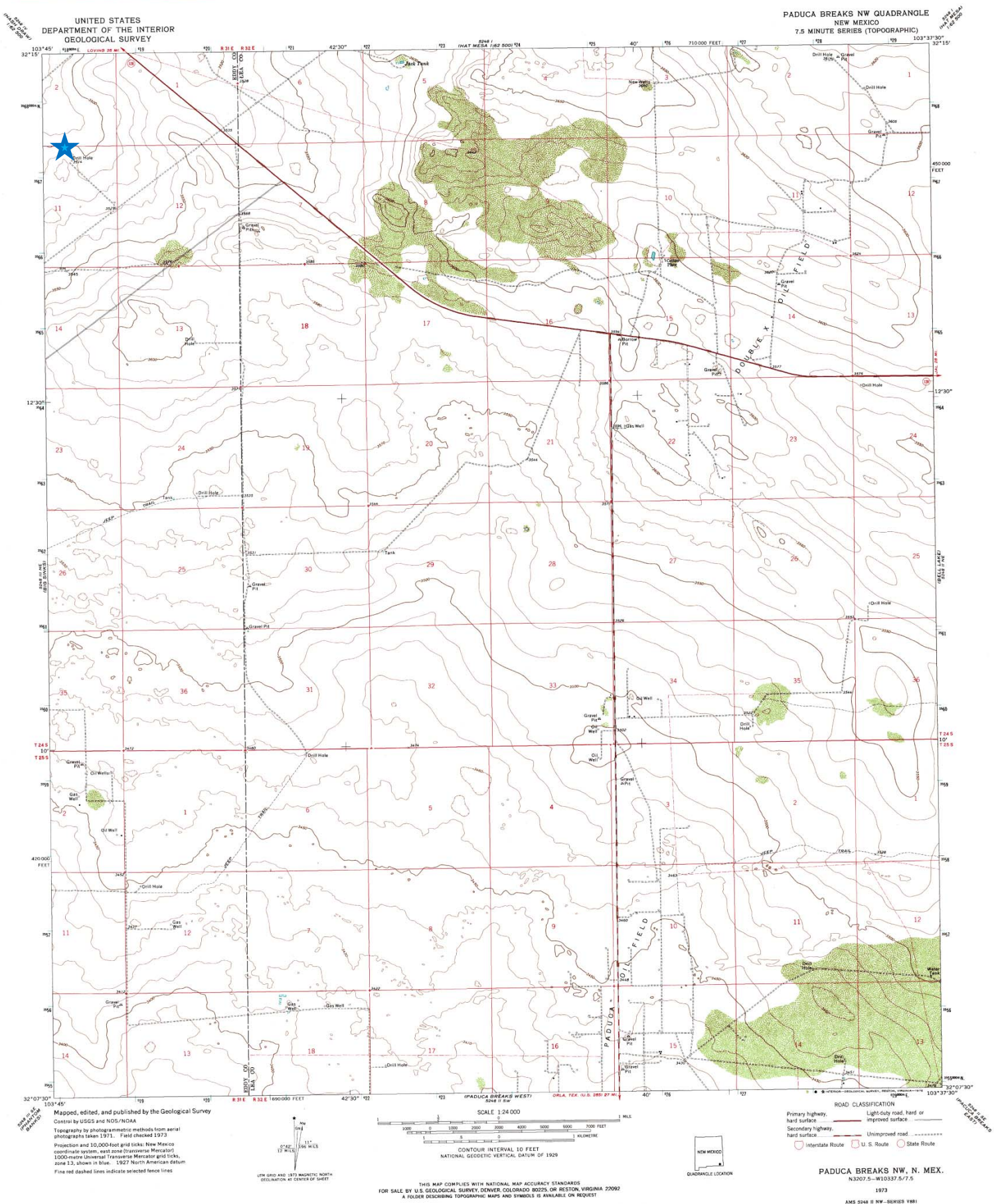
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SW/NW Unit Letter E	SE/NW Unit Letter F	SW/NE Unit Letter G	SE/NE Unit Letter H
NW/SW Unit Letter L	NE/SW Unit Letter K	NW/SE Unit Letter J	NE/SE Unit Letter I
SW/SW Unit Letter M	SE/SW Unit Letter N	SW/SE Unit Letter O	SE/SE Unit Letter P

3

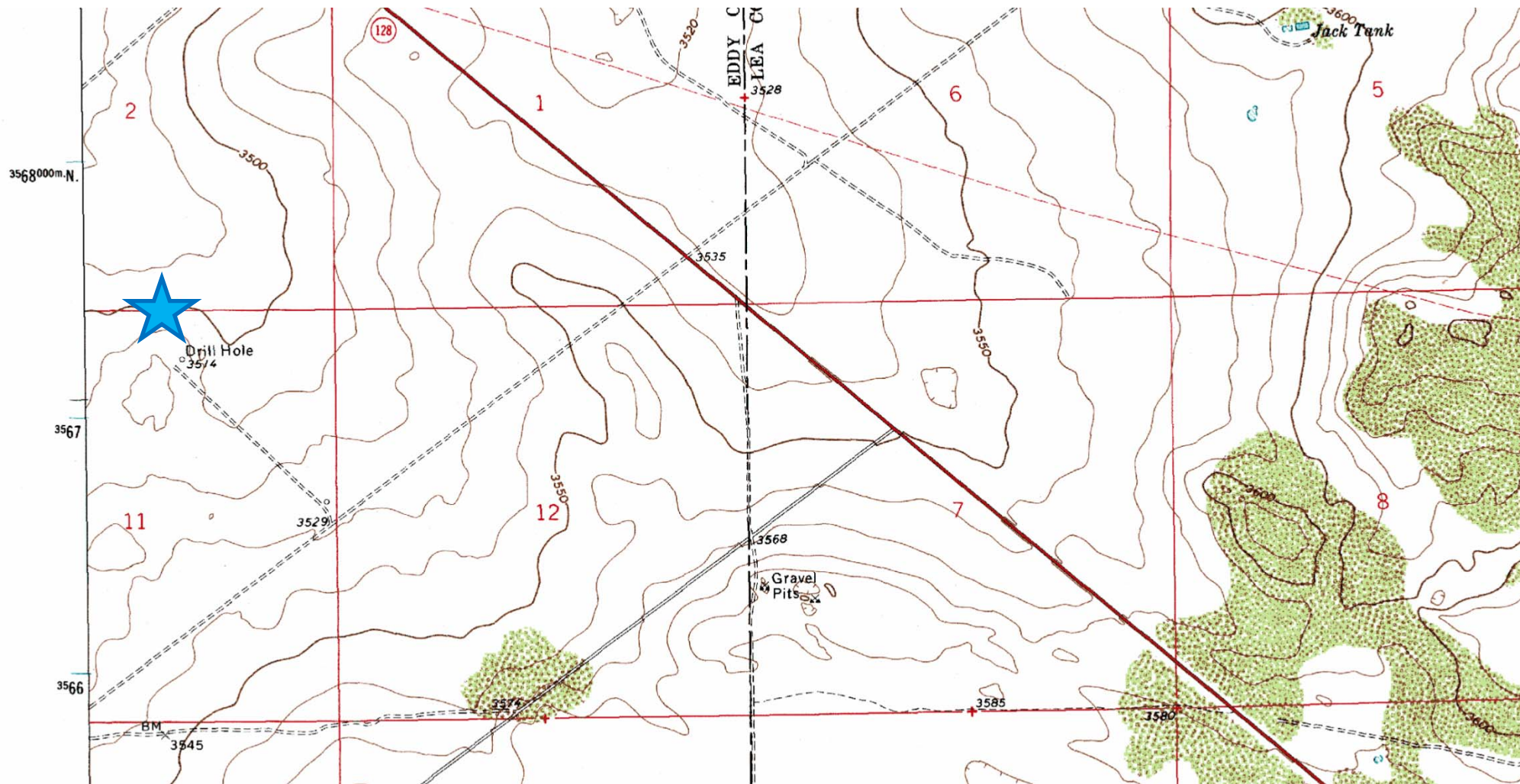
4

Chevron

Littlefield Federal SWD #1



Littlefield Federal SWD #1



Laboratory Analytical Results Summary
Littlefield Fed SWD #1

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 4'
Analyte	Method	Date	1/16/14	1/16/14	1/16/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		2200	224	576
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 7'	SP2 @ 9'	SP2 @ 12'	SP2 @ 14'	SP2 @ 16'	SP2 @ 17'
Analyte	Method	Date	1/16/14	1/16/14	1/16/14	1/16/14	1/16/14	3/10/14	3/10/14	3/10/14	3/10/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		2040	1220	944	1260	1760	1340	1360	672	<16.0
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 7'	SP3 @ 9'	SP3 @ 11'	SP3 @ 13'	SP3 @ 16'
Analyte	Method	Date	1/16/14	1/16/14	1/16/14	1/16/14	1/16/14	1/17/14	1/17/14	1/17/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		7860	1800	3120	3160	832	752	1070	784
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a



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

January 31, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LITTLEFIELD SWD

Enclosed are the results of analyses for samples received by the laboratory on 01/24/14 10:45.

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 style with a large, stylized 'C' and 'K'.

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:	01/24/2014	Sampling Date:	01/16/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	LITTLEFIELD SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	128		

Sample ID: SP 1 @ 1 FT (H400236-01)

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	01/29/2014	ND	2.32	116	2.00	2.43	
Toluene*	<0.050	0.050	01/29/2014	ND	2.26	113	2.00	2.06	
Ethylbenzene*	<0.050	0.050	01/29/2014	ND	2.26	113	2.00	1.91	
Total Xylenes*	<0.150	0.150	01/29/2014	ND	6.59	110	6.00	1.55	
Total BTEX	<0.300	0.300	01/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	01/29/2014	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	01/27/2014	ND	203	101	200	1.95	
DRO >C10-C28	<10.0	10.0	01/27/2014	ND	195	97.4	200	1.09	

Surrogate: 1-Chlorooctane 82.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.3 % 63.6-154

Sample ID: SP 1 @ 2 FT (H400236-02)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/29/2014	ND	416	104	400	0.00	

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:	01/24/2014	Sampling Date:	01/16/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	LITTLEFIELD SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	128		

Sample ID: SP 1 @ 4 FT (H400236-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	01/29/2014	ND	416	104	400	0.00	

Sample ID: SP 2 @ 1 FT (H400236-04)

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	01/29/2014	ND	2.32	116	2.00	2.43	
Toluene*	<0.050	0.050	01/29/2014	ND	2.26	113	2.00	2.06	
Ethylbenzene*	<0.050	0.050	01/29/2014	ND	2.26	113	2.00	1.91	
Total Xylenes*	<0.150	0.150	01/29/2014	ND	6.59	110	6.00	1.55	
Total BTEx	<0.300	0.300	01/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	01/29/2014	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	01/27/2014	ND	203	101	200	1.95	
DRO >C10-C28	<10.0	10.0	01/27/2014	ND	195	97.4	200	1.09	

Surrogate: 1-Chlorooctane 85.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.7 % 63.6-154

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:	01/24/2014	Sampling Date:	01/16/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	LITTLEFIELD SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	128		

Sample ID: SP 2 @ 3 FT (H400236-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	01/29/2014	ND	416	104	400	0.00	

Sample ID: SP 2 @ 5 FT (H400236-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	01/29/2014	ND	416	104	400	0.00	

Sample ID: SP 2 @ 7 FT (H400236-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	01/29/2014	ND	416	104	400	0.00	

Sample ID: SP 2 @ 9 FT (H400236-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	01/29/2014	ND	416	104	400	0.00	

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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: 01/24/2014
Reported: 01/31/2014
Project Name: LITTLEFIELD SWD
Project Number: NONE GIVEN
Project Location: 128

Sampling Date: 01/16/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1 FT (H400236-09)

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	01/29/2014	ND	2.32	116	2.00	2.43	
Toluene*	<0.050	0.050	01/29/2014	ND	2.26	113	2.00	2.06	
Ethylbenzene*	<0.050	0.050	01/29/2014	ND	2.26	113	2.00	1.91	
Total Xylenes*	<0.150	0.150	01/29/2014	ND	6.59	110	6.00	1.55	
Total BTX	<0.300	0.300	01/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	01/29/2014	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	01/27/2014	ND	203	101	200	1.95	
DRO >C10-C28	<10.0	10.0	01/27/2014	ND	195	97.4	200	1.09	

Surrogate: 1-Chlorooctane 91.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.0 % 63.6-154

Sample ID: SP 3 @ 3 FT (H400236-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	01/29/2014	ND	416	104	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:	01/24/2014	Sampling Date:	01/16/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	LITTLEFIELD SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	128		

Sample ID: SP 3 @ 5 FT (H400236-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	01/29/2014	ND	416	104	400	0.00		

Sample ID: SP 3 @ 7 FT (H400236-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	01/29/2014	ND	416	104	400	0.00	

Sample ID: SP 3 @ 9 FT (H400236-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	01/29/2014	ND	416	104	400	0.00		

Sample ID: SP 3 @ 11 FT (H400236-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	01/29/2014	ND	416	104	400	0.00		

Sample ID: SP 3 @ 13 FT (H400236-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	01/29/2014	ND	416	104	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: 01/24/2014
Reported: 01/31/2014
Project Name: LITTLEFIELD SWD
Project Number: NONE GIVEN
Project Location: 128

Sampling Date: 01/17/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 16 FT (H400236-16)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	01/29/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL 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.		BILL TO		ANALYSIS REQUEST															
Project Manager: Cliff Brunson		P.O. #:																	
Address: P.O. Box 805		Company:																	
City: Hobbs		Attn:																	
State: NM Zip: 88241		Address:																	
Phone #: 575-397-6388 Fax #: 575-397-0397		City:																	
Project #:		State:		Zip:															
Project Name: Littlefield SWD		Phone #:																	
Project Location: 188		Fax #:																	
Sampler Name: Gary Ray																			
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING							
								GROUNDWATER											
								WASTEWATER											
								SOIL											
								OIL											
								SLUDGE											
								OTHER:											
								ACID/BASE:											
								ICE / COOL											
								OTHER:											
H4D02346		SP1021F+		G 1		1		1-16-14		10:00		CL-							
1		SP1021F+		G 1		1		1-16-14		10:15		TPH							
2		SP1021F+		G 1		1		1-16-14		10:31		B-Tex							
3		SP1021F+		G 1		1		1-16-14		11:05									
4		SP1021F+		G 1		1		1-16-14		11:30									
5		SP1021F+		G 1		1		1-16-14		12:00									
6		SP1021F+		G 1		1		1-16-14		12:30									
7		SP1021F+		G 1		1		1-16-14		1:15									
8		SP1021F+		G 1		1		1-16-14		2:00									
9		SP1021F+		G 1		1		1-16-14		2:24									
10		SP1021F+		G 1		1		1-16-14		2:24									
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Relinquished By:		Date: 1-23-14		Time: 5:00pm		Received By: Gary Ray		Date: 1-23-14		Time: 10:45		CHECKED BY: Medi Benson							
Relinquished By:		Date: 1-23-14		Time: 5:00pm		Received By: Gary Ray		Date: 1-23-14		Time: 10:45		CHECKED BY: Medi Benson							
Delivered By: (Circle One)		3.40c		Cool		Intact		Sample Condition		CHECKED BY: Medi Benson									
Sampler - UPS - Bus - Other:		3.40c		Cool		Intact		Sample Condition		CHECKED BY: Medi Benson									
t Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476																			



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST									
Project Manager: Cliff Brunson		P.O. #:											
Address: P.O. Box 805		Company:											
City: Hobbs		Attn:											
State: NM Zip: 88241		Address:											
Phone #: 575-397-6388 Fax #: 575-397-0397		City:											
Project #:		State:		Zip:									
Project Name: Littlefield Sued		Phone #:											
Project Location: 128		Fax #:											
Sampler Name: Gary PA													

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:											
11	SP 30 @ 5ft	X	X	X	X	X	X	X	X	X	1-16-14	9:45	X	CL-						
12	SP 30 @ 9ft	X	X	X	X	X	X	X	X	X	1-16-14	2:02	X	B-TPX						
13	SP 30 @ 9ft	X	X	X	X	X	X	X	X	X	1-16-14	9:25	X	TPH						
14	SP 30 @ 11ft	X	X	X	X	X	X	X	X	X	1-17-14	10:00	X							
15	SP 30 @ 13ft	X	X	X	X	X	X	X	X	X	1-17-14	10:40	X							
16	SP 30 @ 16ft	X	X	X	X	X	X	X	X	X	1-17-14	11:30	X							

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Relinquished By:	Date: 1-23-14	Received By:	Date: 1-24-14	Time: 1:00 PM	Time: 10:45	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	Checked By:
Relinquished By:	Date: 1-24-14	Received By:	Date: 1-24-14	Time: 10:45	Time: 3:40	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	Checked By:
Delivered By: (Circle One)							
Sampler - UPS - Bus - Other:							

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

#54

March 18, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LITTLEFIELD SWD

Enclosed are the results of analyses for samples received by the laboratory on 03/13/14 8:50.

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,



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: 03/13/2014
Reported: 03/18/2014
Project Name: LITTLEFIELD SWD
Project Number: NONE GIVEN
Project Location: 128

Sampling Date: 03/10/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 12 (H400760-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	03/13/2014	ND	416	104	400	3.92		

Sample ID: SP 2 @ 14 (H400760-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	03/13/2014	ND	416	104	400	3.92		

Sample ID: SP 2 @ 16 (H400760-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	03/13/2014	ND	416	104	400	3.92		

Sample ID: SP 2 @ 17 (H400760-04)

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	03/13/2014	ND	416	104	400	3.92		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Tuesday, June 17, 2014 4:27 PM
To: Cliff P. Brunson
Cc: Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: Chevron-Littlefield Federal SWD #1-Remediation Plan

RE: Chevron * Littlefield Fed SWD 001 * 30-015-10259 * B-11-24s-31e * Eddy County, New Mexico
NMOCD Tracking number: 2RP-2105 * Date of release: 12/1/2013

Cliff,

Your proposal for remediation of the above referenced release is approved. Please notify OCD prior to commencement of remedial activities.

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 P. Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Tuesday, June 17, 2014 3:18 PM
To: Bratcher, Mike, EMNRD
Cc: Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Chevron-Littlefield Federal SWD #1-Remediation Plan

Mike,

This e-mail is to confirm our conversation on April 1, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Chevron will excavate to a depth of 1 foot in the entire spill area as shown on the attached site diagram. Then 6 inches of compacted clay will be installed and the area will then be backfilled with clean soil. As you know, the BLM has approved this plan as well.

If you would please e-mail your concurrence with this remediation 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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Jennifer Gilkey

From: Amos, James <jamos@blm.gov>
Sent: Monday, April 07, 2014 6:37 AM
To: Cliff P. Brunson
Cc: Mike Burton; Bradley Blevins; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Re: Chevron-Littlefield Federal SWD #1-Remediation Plan

Cliff,

I'm okay with your work plan with the understanding at abandonment and final reclamation additional remediation of the site will be required. Thanks

On Sun, Apr 6, 2014 at 4:50 PM, Cliff P. Brunson <cbrunson@bbcinternational.com> wrote:
Mike and Jim,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Mike Bratcher of the NMOCD. Chevron will excavate to a depth of 1 foot in the entire spill area as shown on the attached site diagram. Then 6 inches of compacted clay will be installed and the area will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated. If you have any questions, please let us 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.
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Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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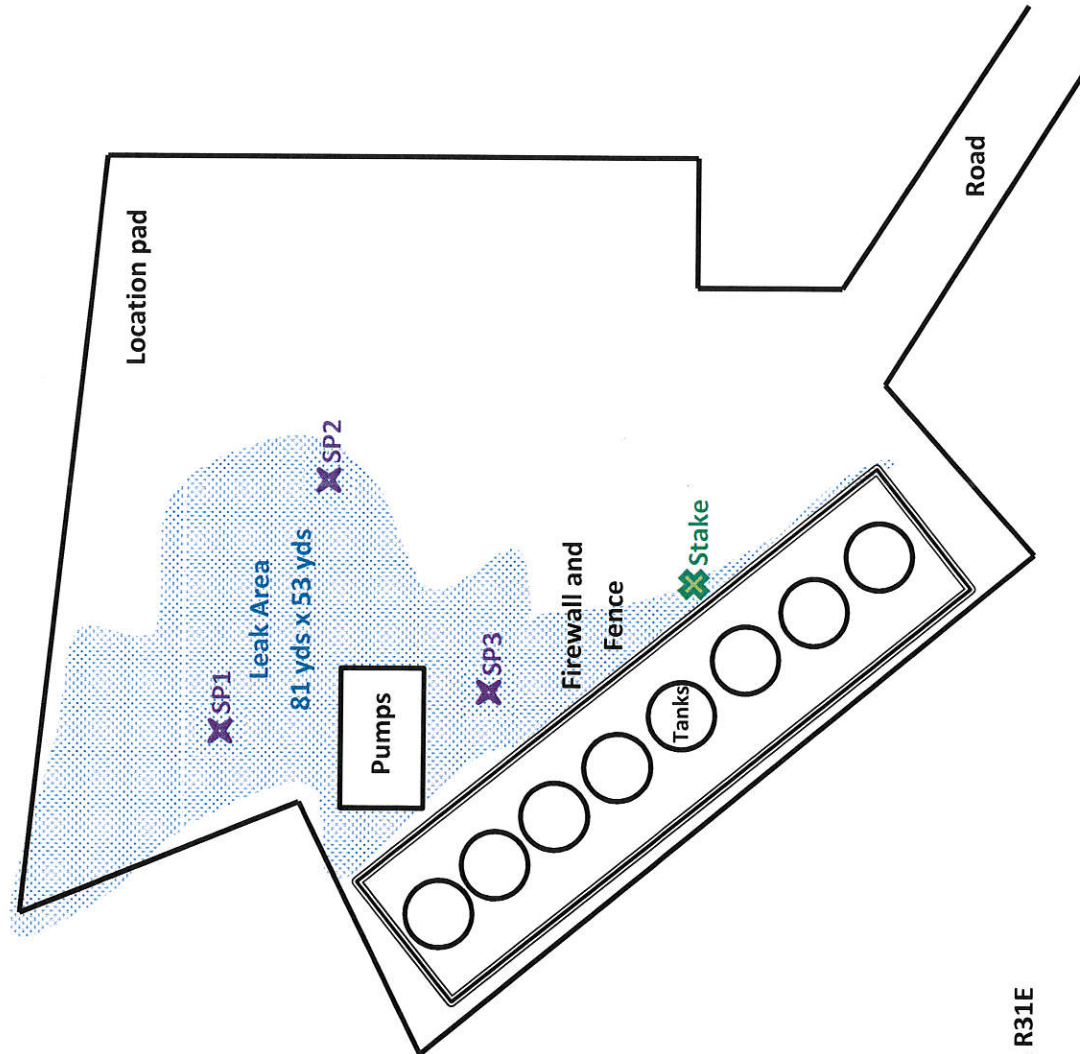
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James A. Amos
Bureau of Land Management
Carlsbad Field Office
Supervisory Environmental Protection Specialist
620 East Greene Street
Carlsbad, NM. 88220
Office: (575) 234-5909
Fax: (575) 234-5927
Cell: (575) 361-2648
E-mail: jamos@blm.gov



Chevron
Littlefield Federal SWD #1



U/L B, Section 11, T24S, R31E
660' FNL and 1980' FEL
Eddy County, NM
N 32.23885° W 103.74665° at stake
API# 30-015-10259

BBC International, Inc.	
Chevron	
Littlefield Federal SWD #1	
Date: 12/11/2013	DRWG by: K. Purvis
NOT TO SCALE	File: Chevron 2013



Groundwater Plot

Chevron Littlefield Federal SWD #1

County
Eddy

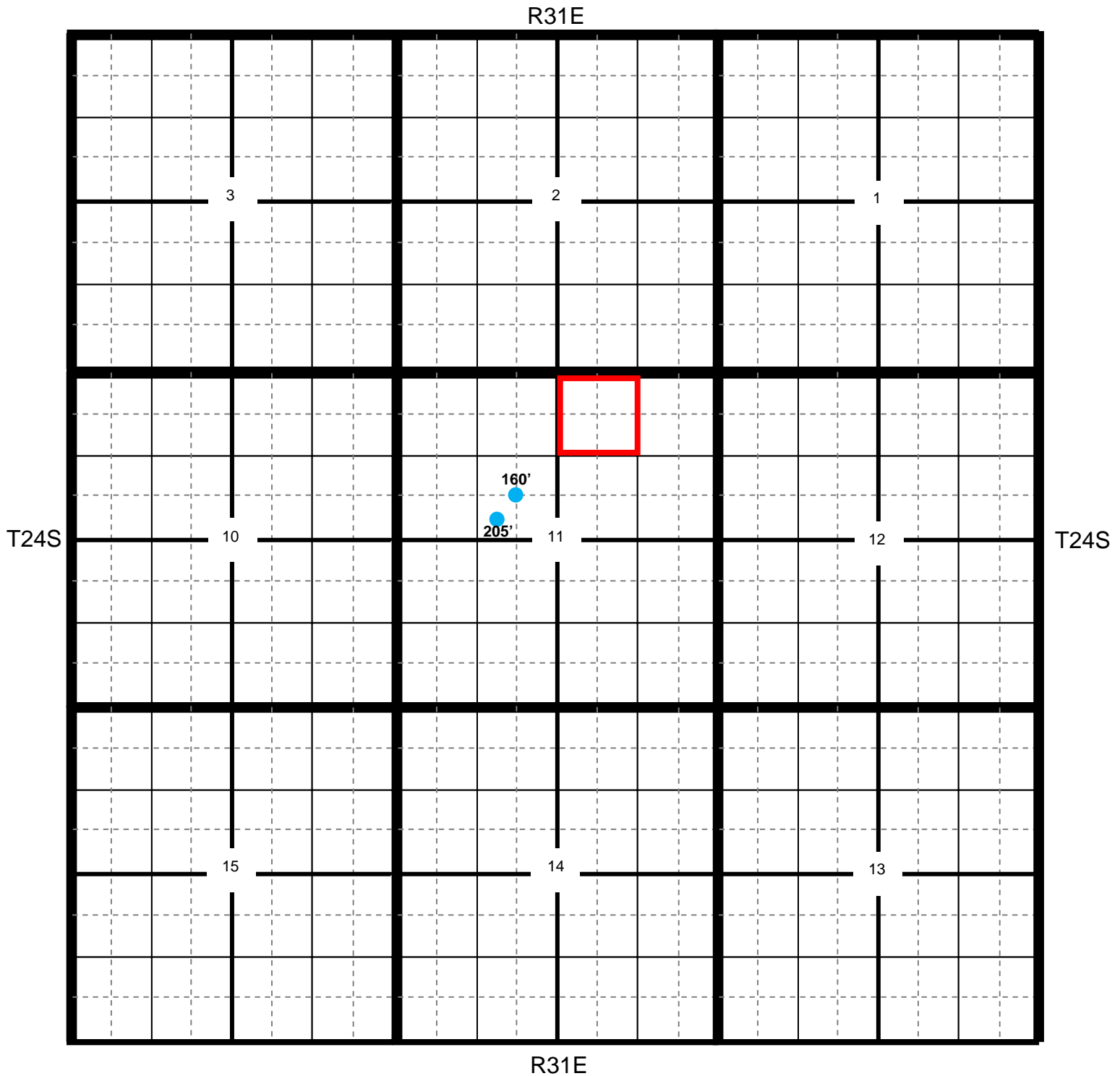
Unit Letter
B

Section
11

Township
24S

Range
31E

Trend Map >300'



Location

OCD

USGS

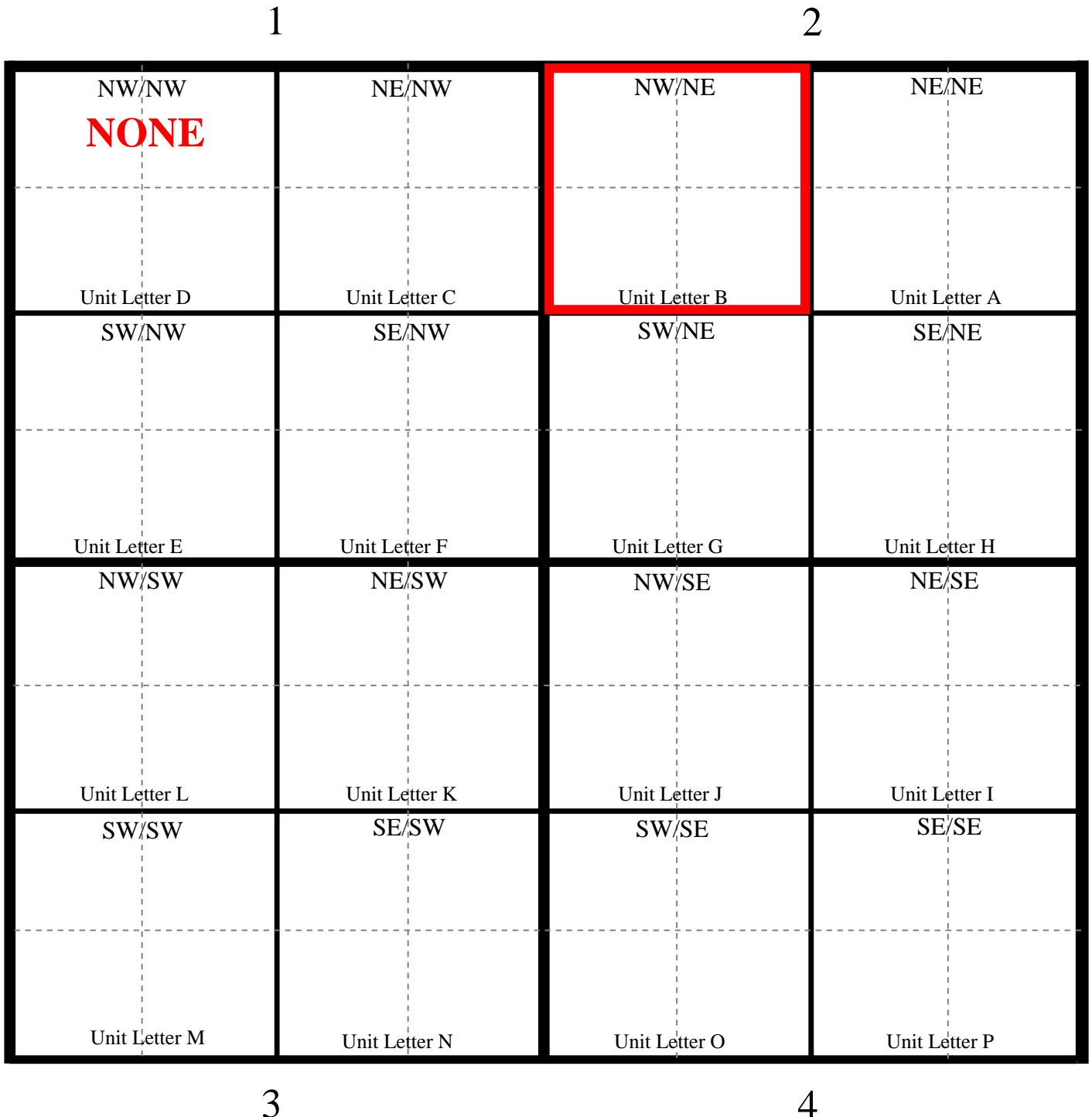
SEO

All Databases

Chevron Littlefield Federal SWD #1

County Eddy **Unit Letter** B **Section** 11 **Township** 24S **Range** 31E

Trend Map >300'



Laboratory Analytical Results Summary
Littlefield Fed SWD #1

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 4'
Analyte	Method	Date	1/16/14	1/16/14	1/16/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		2200	224	576
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 7'	SP2 @ 9'	SP2 @ 12'	SP2 @ 14'	SP2 @ 16'	SP2 @ 17'
Analyte	Method	Date	1/16/14	1/16/14	1/16/14	1/16/14	1/16/14	3/10/14	3/10/14	3/10/14	3/10/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		2040	1220	944	1260	1760	1340	1360	672	<16.0
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 7'	SP3 @ 9'	SP3 @ 11'	SP3 @ 13'	SP3 @ 16'
Analyte	Method	Date	1/16/14	1/16/14	1/16/14	1/16/14	1/16/14	1/17/14	1/17/14	1/17/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		7860	1800	3120	3160	832	752	1070	784
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a



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

January 31, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LITTLEFIELD SWD

Enclosed are the results of analyses for samples received by the laboratory on 01/24/14 10:45.

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 style with a large, stylized 'C' and 'K'.

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:	01/24/2014	Sampling Date:	01/16/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	LITTLEFIELD SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	128		

Sample ID: SP 1 @ 1 FT (H400236-01)

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	01/29/2014	ND	2.32	116	2.00	2.43	
Toluene*	<0.050	0.050	01/29/2014	ND	2.26	113	2.00	2.06	
Ethylbenzene*	<0.050	0.050	01/29/2014	ND	2.26	113	2.00	1.91	
Total Xylenes*	<0.150	0.150	01/29/2014	ND	6.59	110	6.00	1.55	
Total BTEX	<0.300	0.300	01/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	01/29/2014	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	01/27/2014	ND	203	101	200	1.95	
DRO >C10-C28	<10.0	10.0	01/27/2014	ND	195	97.4	200	1.09	

Surrogate: 1-Chlorooctane 82.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.3 % 63.6-154

Sample ID: SP 1 @ 2 FT (H400236-02)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/29/2014	ND	416	104	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:	01/24/2014	Sampling Date:	01/16/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	LITTLEFIELD SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	128		

Sample ID: SP 1 @ 4 FT (H400236-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	01/29/2014	ND	416	104	400	0.00	

Sample ID: SP 2 @ 1 FT (H400236-04)

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	01/29/2014	ND	2.32	116	2.00	2.43	
Toluene*	<0.050	0.050	01/29/2014	ND	2.26	113	2.00	2.06	
Ethylbenzene*	<0.050	0.050	01/29/2014	ND	2.26	113	2.00	1.91	
Total Xylenes*	<0.150	0.150	01/29/2014	ND	6.59	110	6.00	1.55	
Total BTEX	<0.300	0.300	01/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	01/29/2014	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	01/27/2014	ND	203	101	200	1.95	
DRO >C10-C28	<10.0	10.0	01/27/2014	ND	195	97.4	200	1.09	

Surrogate: 1-Chlorooctane 85.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.7 % 63.6-154

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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:	01/24/2014	Sampling Date:	01/16/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	LITTLEFIELD SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	128		

Sample ID: SP 2 @ 3 FT (H400236-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	01/29/2014	ND	416	104	400	0.00		

Sample ID: SP 2 @ 5 FT (H400236-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	01/29/2014	ND	416	104	400	0.00	

Sample ID: SP 2 @ 7 FT (H400236-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	01/29/2014	ND	416	104	400	0.00	

Sample ID: SP 2 @ 9 FT (H400236-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	01/29/2014	ND	416	104	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:	01/24/2014	Sampling Date:	01/16/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	LITTLEFIELD SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	128		

Sample ID: SP 3 @ 1 FT (H400236-09)

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	01/29/2014	ND	2.32	116	2.00	2.43	
Toluene*	<0.050	0.050	01/29/2014	ND	2.26	113	2.00	2.06	
Ethylbenzene*	<0.050	0.050	01/29/2014	ND	2.26	113	2.00	1.91	
Total Xylenes*	<0.150	0.150	01/29/2014	ND	6.59	110	6.00	1.55	
Total BTEX	<0.300	0.300	01/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	01/29/2014	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	01/27/2014	ND	203	101	200	1.95	
DRO >C10-C28	<10.0	10.0	01/27/2014	ND	195	97.4	200	1.09	

Surrogate: 1-Chlorooctane 91.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.0 % 63.6-154

Sample ID: SP 3 @ 3 FT (H400236-10)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	01/29/2014	ND	416	104	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:	01/24/2014	Sampling Date:	01/16/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	LITTLEFIELD SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	128		

Sample ID: SP 3 @ 5 FT (H400236-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	01/29/2014	ND	416	104	400	0.00	

Sample ID: SP 3 @ 7 FT (H400236-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	01/29/2014	ND	416	104	400	0.00	

Sample ID: SP 3 @ 9 FT (H400236-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	01/29/2014	ND	416	104	400	0.00	

Sample ID: SP 3 @ 11 FT (H400236-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	01/29/2014	ND	416	104	400	0.00	

Sample ID: SP 3 @ 13 FT (H400236-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	01/29/2014	ND	416	104	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: 01/24/2014
Reported: 01/31/2014
Project Name: LITTLEFIELD SWD
Project Number: NONE GIVEN
Project Location: 128

Sampling Date: 01/17/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 16 FT (H400236-16)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	01/29/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

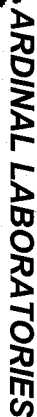
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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:						BBC International, Inc.																				
Project Manager:						Cliff Brunson																				
Address:						P.O. Box 805																				
City:						Hobbs																				
						State: NM Zip: 88241																				
Phone #:						575-397-6388 Fax #: 575-397-0397																				
Project #:						Project Owner: Chevron																				
Project Name:						LITTLEFIELD SWD																				
Project Location:						128																				
Sampler Name:						GARY RAY																				
FOR LAB USE ONLY						Fax #:																				
Lab I.D.						Sample I.D.																				
H4D0236						(G)RAB OR (C)OMP. # CONTAINERS <table border="1"><thead><tr><th>MATRIX</th><th>GROUNDWATER</th><th>WASTEWATER</th><th>SOIL</th><th>OIL</th><th>SLUDGE</th><th>OTHER :</th><th>ACID/BASE:</th><th>ICE / COOL</th><th>OTHER :</th></tr></thead><tbody><tr><td>DATE</td><td>TIME</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>	MATRIX	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME								
MATRIX	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :																	
DATE	TIME																									
1	SP2@1F+	X								CL-																
2	SP2@2F+	X									x															
3	SP2@4F+	X																								
4	SP2@2F+	X																								
5	SP2@3F+	X									x															
6	SP2@5F+	X																								
7	SP2@7F+	X																								
8	SP2@9F+	X																								
9	SP3@1F+	X																								
10	SP3@3F+	X																								

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

Relinquished By:	Date: 1-23-14	Received By:	Date: 1-23-14	Time: 5:00 PM	Revised By: Cliff Brunson	SAMPLE CONDITION	CHECKED BY: [Signature]
Delivered By: (Circle One)	Tide: 10:45	Time: 3:40 P	No	No	No	No	No
Samplers - UPS - Bus - Other:							

REMARKS:

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.

#57



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST									
Project Manager: Cliff Brunson		P.O. #:											
Address: P.O. Box 805		Company:											
City: Hobbs		Attn:											
State: NM Zip: 88241		Address:											
Phone #: 575-397-6388 Fax #: 575-397-0397		City:											
Project #:		State:		Zip:									
Project Name: Littlefield Sued		Phone #:											
Project Location: 128		Fax #:											
Sampler Name: Gary PA													

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:											
11	SP 30 @ 5ft	X	X	X	X	X	X	X	X	X	1-16-14	9:45	X	CL-						
12	SP 30 @ 9ft	X	X	X	X	X	X	X	X	X	1-16-14	2:02	X	B-TPX						
13	SP 30 @ 9ft	X	X	X	X	X	X	X	X	X	1-16-14	9:25	X	TPH						
14	SP 30 @ 11ft	X	X	X	X	X	X	X	X	X	1-17-14	10:00	X							
15	SP 30 @ 13ft	X	X	X	X	X	X	X	X	X	1-17-14	10:40	X							
16	SP 30 @ 16ft	X	X	X	X	X	X	X	X	X	1-17-14	11:30	X							

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:	Date: 1-23-14	Received By:	Date: 1-24-14	Time: 1:00 PM	Time: 10:45	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	CHECKED BY:
Relinquished By:	Date: 1-24-14	Received By:	Date: 1-24-14	Time: 10:45	Time: 3:40	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	CHECKED BY:
Delivered By: (Circle One)							
Sampler - UPS - Bus - Other:							

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

#54

March 18, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LITTLEFIELD SWD

Enclosed are the results of analyses for samples received by the laboratory on 03/13/14 8:50.

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,



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: 03/13/2014
Reported: 03/18/2014
Project Name: LITTLEFIELD SWD
Project Number: NONE GIVEN
Project Location: 128

Sampling Date: 03/10/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 12 (H400760-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	03/13/2014	ND	416	104	400	3.92		

Sample ID: SP 2 @ 14 (H400760-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	03/13/2014	ND	416	104	400	3.92		

Sample ID: SP 2 @ 16 (H400760-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	03/13/2014	ND	416	104	400	3.92		

Sample ID: SP 2 @ 17 (H400760-04)

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	03/13/2014	ND	416	104	400	3.92		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Little Field Sued

Project Location: 198

Sample Name: Gen 11A

State: NM

Fax #: 575-397-0397

Project Owner: Chevron

City:

State:

Phone #:

Fax #:

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H4DD760

1 SP2012

2 SP2014

3 SP2016

4 SP2017

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

MATRIX

PRESERV

SAMPLING

DATE

TIME

3-10-14 125

3-10-14 158

3-10-14 2:22

3-10-14 2:28

RECEIVED BY: [Signature]

DATE: 3/13/14

TIME: 8:50

RECEIVED BY: [Signature]

DATE:

TIME:

DELIVERED BY: (Circle One)

3.40

Cool Impact

Yes

No

CHECKED BY: [Signature]

REMARKS:

PHONE RESULT: Yes No

ADD'l PHONE #:

ADD'l FAX #:

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

ANALYSIS REQUEST

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	Chevron Delaware Basin	Contact	Bradley Blevins
Address	PO Box 190, Hobbs, NM 88241	Telephone No.	(575) 391-1462
Facility Name	Littlefield Federal SWD #1	Facility Type	Well Location
Surface Owner	BLM	Mineral Owner	API # 30-015-10259

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	11	24S	31E	660	North	1980	East	Eddy County, NM

Latitude N 32.12729° Longitude W 103.74594°

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	181 bbls	Volume Recovered	170 bbls
Source of Release	Triplex pump failure	Date and Hour of Occurrence	12/01/2013 @ 10:00 am	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- NMOCD, James Amos- BLM		
By Whom?	Bradley Blevins	Date and Hour	12/02/2013 @ 3:00 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

A triplex pump failure caused 181 bbls of produced water to leak onto the ground. 170 bbls of fluid were recovered via vacuum truck and the pump was repaired.

Describe Area Affected and Cleanup Action Taken.*

A triplex pump failure caused 181 bbls of produced water to leak onto the ground. 170 bbls of fluid were recovered via vacuum truck and the pump was repaired. Further remediation will be performed 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: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Bradley Blevins	Approved by District Supervisor:		
Title: HE Specialist	Approval Date:	Expiration Date:	
E-mail Address: Bradley.blevins@chk.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 12/6/13 Phone: (575) 391-1462			

* Attach Additional Sheets If Necessary