

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	nKMW1109428378
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator
 Signature:  Date: 4-18-23
 email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: Robert Hamlet Date: 9/7/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 9/7/2023
 Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

Closure Report

ID #nKMW1109428378

Site Description

Site Name:	FEDERAL 12 #1
Company:	Oxy USA, Inc.
Legal Description:	UL K ,Section 12, T22S ,R31E,
County:	EDDY
GPS Coordinates:	32.4005814 , -103.7379227

Release Data

Date of Release:	7/20/2009
Type of Release:	OIL
Source of Release:	TANK OVERFLOWED -INSIDE CONTAINMENT
Volume of Release:	20 BBLS OIL
Volume Recovered:	10 BBLS OIL

Remediation Specifications

Remediation Parameters:	This site is listed on the Agreed Compliance Order of 4/5/19. This site had previously been remediated but apparently no paperwork exists on the NMOCD website for closure verification. However, another leak occurred at this same site that covered an even bigger area and was remediated in 2013 and closure was granted by the OCD. Per a discussion in March 2023 with Mike Bratcher of the OCD, we have included a copy of the closure report and pictures of the site cleanup in 2013 for verification.

Plan Sent to OCD:		
OCD Approval of Plan:		
Plan Sent to BLM:		
BLM Approval of Plan:		

Supporting Documentation

C-141, page 6	signed and included	
Site Diagram	Google Earth map	
Pictures	Closure photos	
Lab Summary/Analysis	Confirmation lab summary/analysis report for	
Enclosures	Closure report of 9/26/13	

Request for Closure

Based on the completion of the remediation plan, OXY requests closure approval from NMOCD.

Cliff P. Brunson
President, BBC International, Inc.

4/17/2023

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

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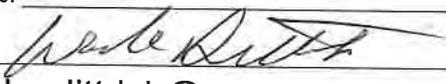
Closure

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Printed Name: Wade Dittrich Title: Environmental Coordinator
 Signature:  Date: 4-18-23
 email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

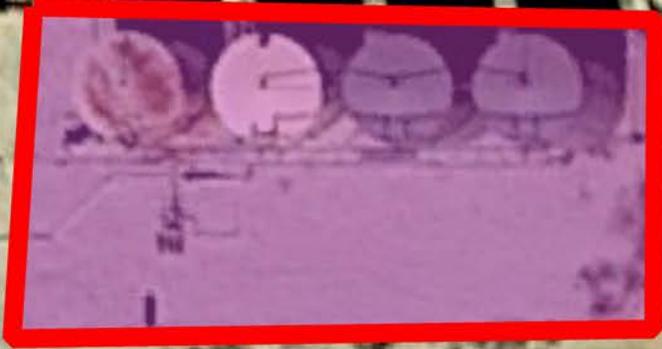
OXY, FEDERAL 12 #1

LEAK DATE: 7/20/09
EDDY COUNTY, NM
ID #: nKMW1109428378

Legend

-  32.4005814,-103.7379227
-  Excavation area
-  Leak Area

 32.4005814,-103.7379227





OXY – FEDERAL 12 #1 (7/20/2009)





OXY – FEDERAL 12 #1 (7/20/2009)





OXY – FEDERAL 12 #1 (7/20/2009)





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OXY – FEDERAL 12 #1 (7/20/2009)



OXY – FEDERAL 12 #1 (7/20/2009)



Closure Report

nMLB1235457560

Site Description

Site Name:	Federal 12-1 South Battery
Company:	Oxy Permian Ltd.
Legal Description:	U/L M, Section 12, T22S, R31E
County:	Eddy County, NM
GPS Coordinates:	Unknown

Release Data

Date of Release:	11/02/2011
Type of Release:	Oil and produced water
Source of Release:	Pump failure
Volume of Release:	3 bbls of oil and 100 bbls of produced water
Volume Recovered:	80 bbls

Remediation Specifications

Remediation Parameters:	Excavate the spill areas around SP1 & SP3 to a depth of 3', SP2 to a depth of 6 feet, SP4 to a depth of 3 feet, and SP5 to a depth of 1 foot or as practicable in each area. Obtain confirmation sampling at bottoms and sidewalls. Backfill the excavated areas with clean soil.
Remediation Activities:	08/22/13 to 09/17/2013

Plan Sent to OCD:	09/11/2012	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	11/15/2012	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	12/16/2012	Email from Cliff Brunson to James Amos
BLM Approval of Plan:	12/17/2012	Email from James Amos to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 12/18/2012
Final C-141	Signed 09/26/2013
Site Diagram	January 2012
Groundwater Plot	100'
TOPO Maps	September 2013
Lab Summary	11/08/2011, 01/06/2012, and 09/03/2013
Lab Analysis	11/08/2011, 01/06/2012, 09/03/2013
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.

09/26/2013

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	CJ Summers
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	Federal 12-1 South Battery	Facility Type	Gathering

Surface Owner	BLM	Mineral Owner		Lease No.	30-015-26742
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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
M	12	22S	31E					Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	3 bbls of oil and 100 bbls of produced water	Volume Recovered	80 bbls
Source of Release	Pump failure	Date and Hour of Occurrence	11/02/2011	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-OCD; James Amos-BLM			
By Whom?	Dusty Wilson	Date and Hour	11/03/2011 @ 1:13 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.*

Pump failure caused 3 bbls of oil and 100 bbls of produced water to leak onto the ground. A vacuum truck recovered the remaining fluids, 80 bbls total. The pump was repaired.

Describe Area Affected and Cleanup Action Taken.*

The area affected is approximately 100' x 50'. A vacuum truck recovered 80 bbls and further remediation will be conducted in accordance with OCD and BLM approved remediation plans.

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:	Chancey Summers	Approved by District Supervisor:	
Title:	HES Specialist	Approval Date:	Expiration Date:
E-mail Address:	Chancey.Summers@oxy.com	Conditions of Approval:	
Date:	12-18-12	Phone:	(575) 397-8216
			Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
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1301 W. Grand Avenue, Artesia, NM 88210
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Form C-141
Revised October 10, 2003

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Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Oxy Permian Ltd.	Contact	CJ Summers
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	Federal 12-1 South Battery	Facility Type	Gathering

Surface Owner	BLM	Mineral Owner		Lease No.	30-015-26742
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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
M	12	22S	31E					Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	3 bbls of oil and 100 bbls of produced water	Volume Recovered	80 bbls
Source of Release	Pump failure	Date and Hour of Occurrence	11/02/2011	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-OCD; James Amos-BLM
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By Whom?	Dusty Wilson	Date and Hour	11/03/2011 @ 1:13 pm
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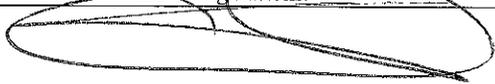
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
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If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Pump failure caused 3 bbls of oil and 100 bbls of produced water to leak onto the ground. A vacuum truck recovered the remaining fluids, 80 bbls total. The pump was repaired.

Describe Area Affected and Cleanup Action Taken.*
The area affected is approximately 100' x 50'. A vacuum truck recovered 80 bbls. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/15/2012 and approved by James Amos of the BLM via email on 12/17/12.

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.

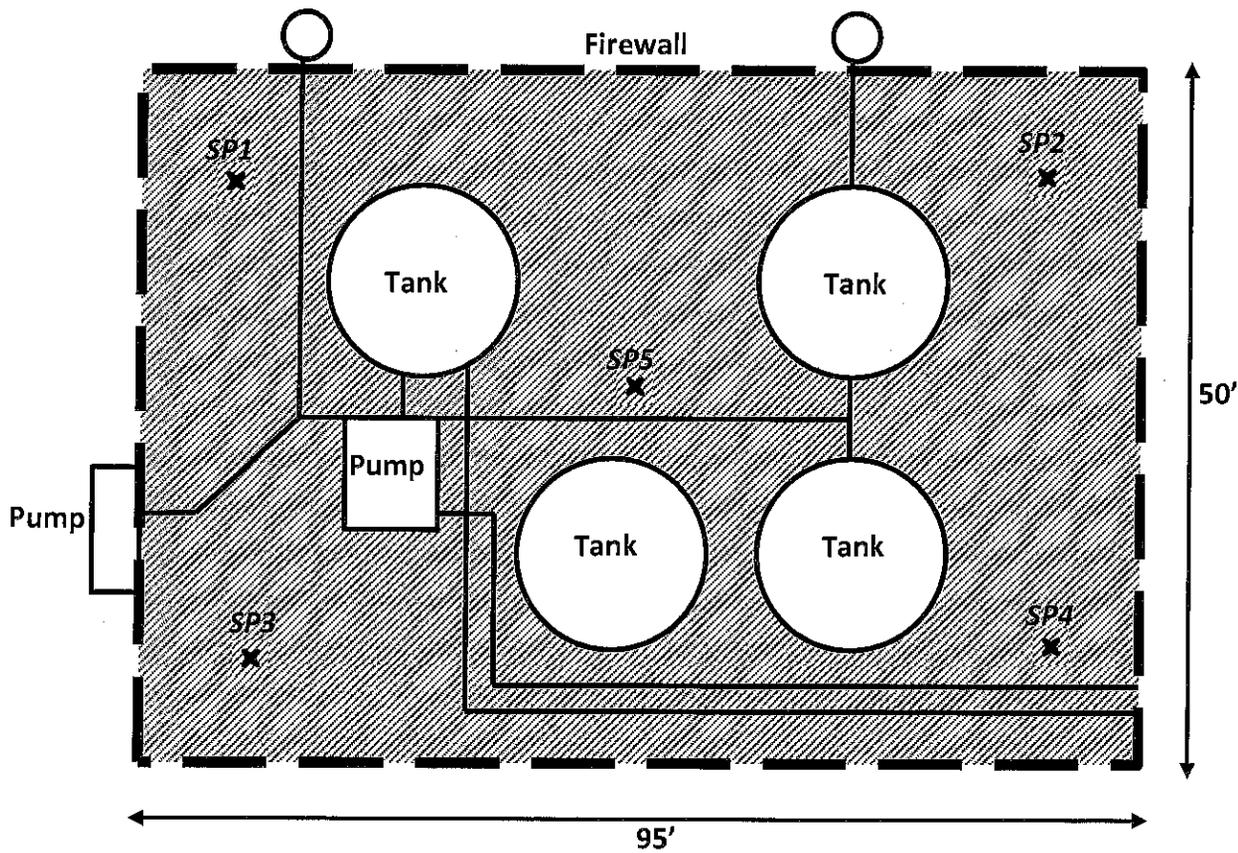
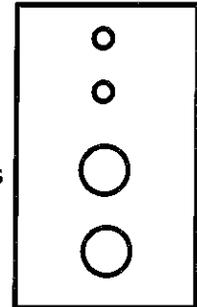
Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Chancey Summers		Approved by District Supervisor:	
Title: HES Specialist		Approval Date:	Expiration Date:
E-mail Address: Chancey.Summers@oxy.com		Conditions of Approval:	
Date: 9/26/13	Phone: (575) 397-8216	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

Oxy Federal 12 #1 South Battery



Heaters & Separators



¼ SE, SW, NE, NW
Section 12, T22S, R31E
Eddy County, NM

BBC International, Inc.	
Oxy	
Federal 12 #1 South Battery	
Date: 1/16/12	DRWG by: KAP
Not to Scale	File: Oxy 2011

Section Quarters

Oxy Federal 12 #1 South Battery

County Eddy County Unit Letter Section 12 Township 22S Range 31E

Trend Map 100'

1

2

NW/NW	NE/NW None Found	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

📍 Location ● OCD ● USGS ● SEO ● All Databases



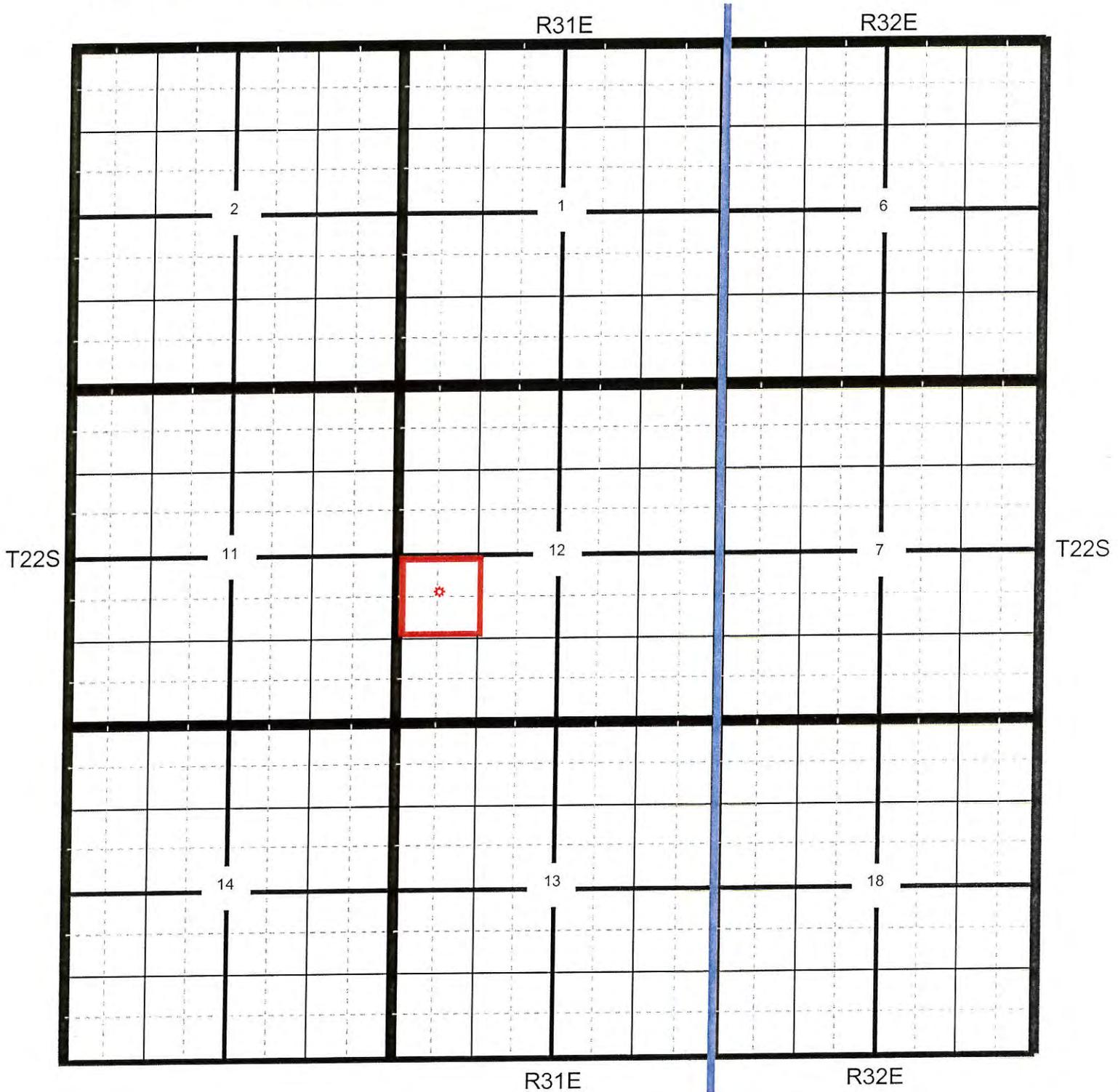
Groundwater Plot

Oxy Federal 12 #1 South Battery

County	Unit Letter	Section	Township	Range
Eddy County		12	22S	31E

NONE
FOUND

Trend Map 100'



📍 Location

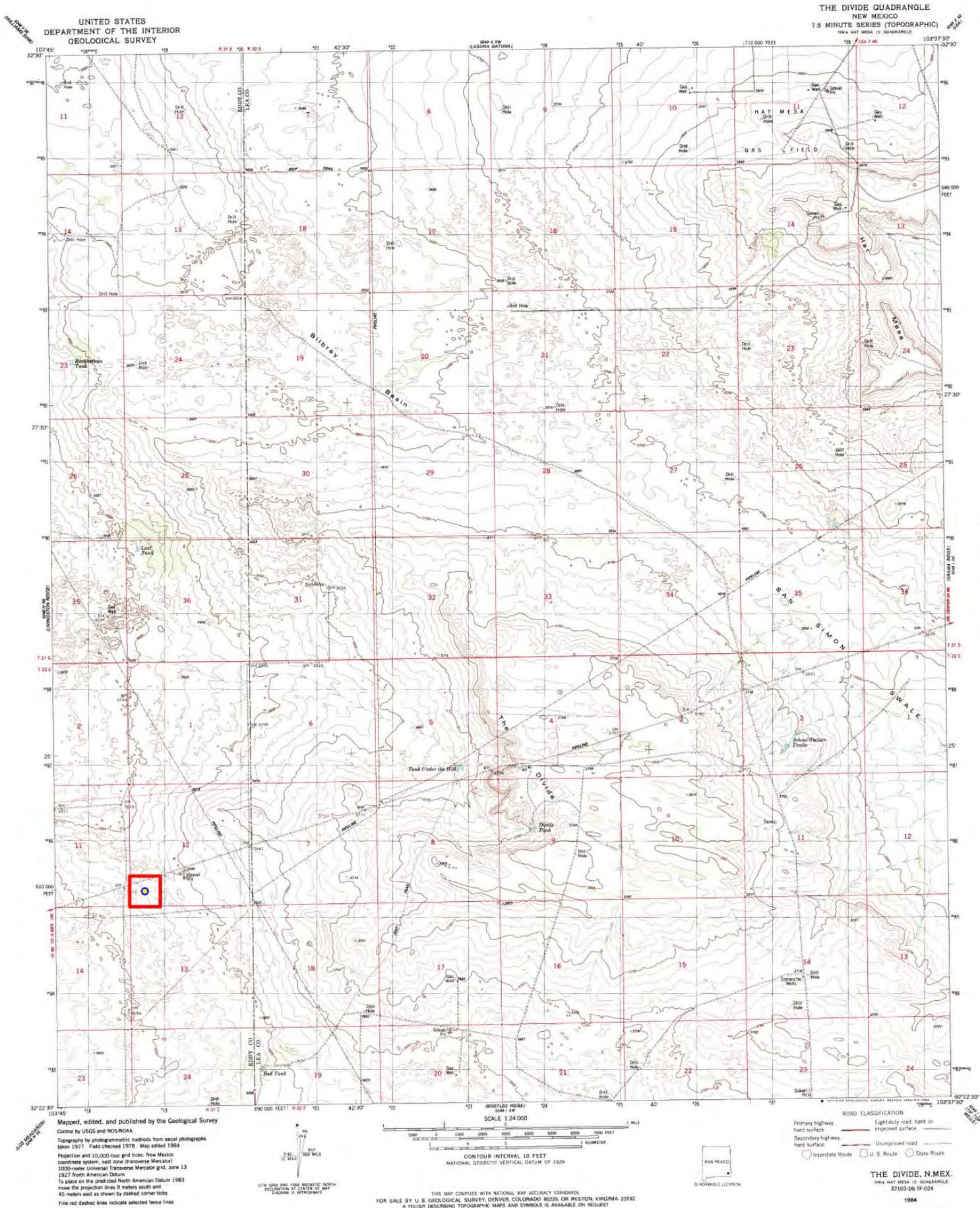
● OCD

● USGS

● SEO

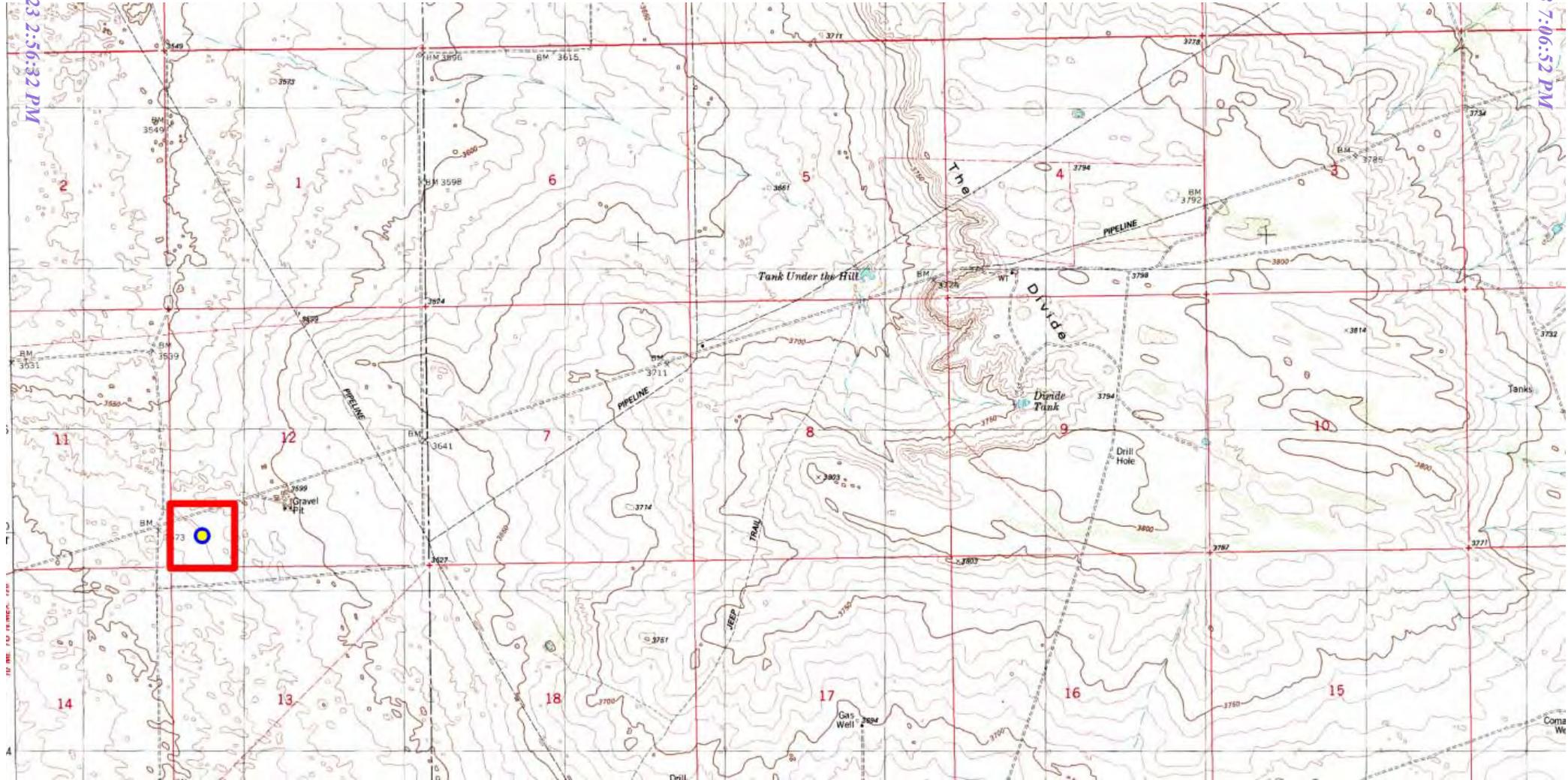
● All Databases

Federal 12 South Battery



Oxy

Federal 12 South Battery



Laboratory Analytical Results Summary
 OXY, Federal 12 #1 South Battery

Surface		Sample	SP1	SP2	SP3	SP4	SP5
Analyte	Method	Date	11/8/11	11/8/11	11/8/11	11/8/11	11/8/11
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<1.00	<0.050	5.5	<0.050	<0.050
Toluene	BTEX 8021B		6.67	<0.050	37.3	0.333	0.161
Ethylbenzene	BTEX 8021B		9.46	<0.050	26.9	0.203	<0.050
Total Xylenes	BTEX 8021B		24.7	<0.150	67.6	0.686	<0.150
Chloride	SM4500Cl-B		6960	48000	15200	26400	18400
GRO	TPH 8015M		2160	<10.0	6390	105	<10.0
DRO	TPH 8015M		28400	22.2	30500	7460	98.5

2nd sampling event		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'	SP1 @ 10'
Analyte	Method	Date	1/5/12	1/5/12	1/5/12	1/5/12	1/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	N/A	N/A
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	N/A	N/A
Chloride	SM4500Cl-B		11600	1150	2760	128	144
GRO	TPH 8015M		<10.0	<10.0	<10.0	N/A	N/A
DRO	TPH 8015M		<10.0	<10.0	<10.0	N/A	N/A

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 7'	SP2 @ 10'
Analyte	Method	Date	1/6/12	1/6/12	1/6/12	1/6/12	1/6/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	N/A	N/A
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	N/A	N/A
Chloride	SM4500Cl-B		384	1520	6960	48	64
GRO	TPH 8015M		<50.0	<10.0	<10.0	N/A	N/A
DRO	TPH 8015M		63.2	<10.0	<10.0	N/A	N/A

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 7'	SP3 @ 10'
Analyte	Method	Date	1/6/12	1/6/12	1/6/12	1/6/12	1/6/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	N/A	N/A
Toluene	BTEX 8021B		<0.050	<0.050	0.051	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	N/A	N/A
Chloride	SM4500Cl-B		3520	3800	112	96	64
GRO	TPH 8015M		<10.0	<10.0	<10.0	N/A	N/A
DRO	TPH 8015M		<10.0	<10.0	<10.0	N/A	N/A

		Sample	SP4 @ 1'	SP4 @ 2'	SP5 @ 1'	SP5 @ 2'	SP5 @ 4'
Analyte	Method	Date	1/9/12	1/9/12	1/9/12	1/9/12	1/9/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	0.067	0.275	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	1.22	1.11	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	1.65	2.08	<0.150	<0.150
Chloride	SM4500Cl-B		400	112	576	<16.0	64
GRO	TPH 8015M		<10.0	257	<100	<10.0	<10.0
DRO	TPH 8015M		<10.0	4770	2330	<10.0	442

Laboratory Analytical Results Summary
Federal 12 South Battery

		Sample	Sidewall 1 North
Analyte	Method	Date	9/3/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	Sidewall 4 East
Analyte	Method	Date	9/3/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	Sidewall 2 South
Analyte	Method	Date	9/3/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	Bottom
Analyte	Method	Date	9/3/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	Sidewall 3 West
Analyte	Method	Date	9/3/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0



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

November 21, 2011

Cliff Brunson
BBC International, Inc.
P.O. Box 805
Hobbs, NM 88241

RE: FEDERAL 12 #1 SOUTH BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/17/11 10:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	11/17/2011	Sampling Date:	11/08/2011
Reported:	11/21/2011	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 1 (H102502-01)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	11/17/2011	ND	2.01	101	2.00	1.13	
Toluene*	6.67	1.00	11/17/2011	ND	1.89	94.4	2.00	1.62	
Ethylbenzene*	9.46	1.00	11/17/2011	ND	2.11	106	2.00	1.44	
Total Xylenes*	24.7	3.00	11/17/2011	ND	6.06	101	6.00	1.70	

Surrogate: 4-Bromofluorobenzene (PIL) 167 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	11/18/2011	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2160	100	11/19/2011	ND	181	90.3	200	0.894	
DRO >C10-C28	28400	100	11/19/2011	ND	147	73.3	200	1.36	

Surrogate: 1-Chlorooctane 202 % 55.5-154

Surrogate: 1-Chlorooctadecane 361 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	11/17/2011	Sampling Date:	11/08/2011
Reported:	11/21/2011	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 2 (H102502-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2011	ND	2.01	101	2.00	1.13	
Toluene*	<0.050	0.050	11/17/2011	ND	1.89	94.4	2.00	1.62	
Ethylbenzene*	<0.050	0.050	11/17/2011	ND	2.11	106	2.00	1.44	
Total Xylenes*	<0.150	0.150	11/17/2011	ND	6.06	101	6.00	1.70	

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48000	16.0	11/18/2011	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2011	ND	181	90.3	200	0.894	
DRO >C10-C28	22.2	10.0	11/19/2011	ND	147	73.3	200	1.36	

Surrogate: 1-Chlorooctane 80.1 % 55.5-154

Surrogate: 1-Chlorooctadecane 102 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	11/17/2011	Sampling Date:	11/08/2011
Reported:	11/21/2011	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 3 (H102502-03)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.50	1.00	11/17/2011	ND	2.01	101	2.00	1.13	
Toluene*	37.3	1.00	11/17/2011	ND	1.89	94.4	2.00	1.62	
Ethylbenzene*	26.9	1.00	11/17/2011	ND	2.11	106	2.00	1.44	
Total Xylenes*	67.6	3.00	11/17/2011	ND	6.06	101	6.00	1.70	

Surrogate: 4-Bromofluorobenzene (PIL) 173 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15200	16.0	11/18/2011	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	6390	100	11/19/2011	ND	181	90.3	200	0.894	
DRO >C10-C28	30500	100	11/19/2011	ND	147	73.3	200	1.36	

Surrogate: 1-Chlorooctane 257 % 55.5-154

Surrogate: 1-Chlorooctadecane 513 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	11/17/2011	Sampling Date:	11/08/2011
Reported:	11/21/2011	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 4 (H102502-04)

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	11/17/2011	ND	2.01	101	2.00	1.13	
Toluene*	0.333	0.050	11/17/2011	ND	1.89	94.4	2.00	1.62	
Ethylbenzene*	0.203	0.050	11/17/2011	ND	2.11	106	2.00	1.44	
Total Xylenes*	0.686	0.150	11/17/2011	ND	6.06	101	6.00	1.70	

Surrogate: 4-Bromofluorobenzene (PIL) 133 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26400	16.0	11/18/2011	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	105	100	11/19/2011	ND	181	90.3	200	0.894	
DRO >C10-C28	7460	100	11/19/2011	ND	147	73.3	200	1.36	

Surrogate: 1-Chlorooctane 70.2 % 55.5-154

Surrogate: 1-Chlorooctadecane 156 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	11/17/2011	Sampling Date:	11/08/2011
Reported:	11/21/2011	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 5 (H102502-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2011	ND	2.01	101	2.00	1.13	
Toluene*	0.161	0.050	11/17/2011	ND	1.89	94.4	2.00	1.62	
Ethylbenzene*	<0.050	0.050	11/17/2011	ND	2.11	106	2.00	1.44	
Total Xylenes*	<0.150	0.150	11/17/2011	ND	6.06	101	6.00	1.70	

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	11/18/2011	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2011	ND	181	90.3	200	0.894	
DRO >C10-C28	98.5	10.0	11/19/2011	ND	147	73.3	200	1.36	

Surrogate: 1-Chlorooctane 88.4 % 55.5-154

Surrogate: 1-Chlorooctadecane 115 % 57.6-158

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
A-01 Surrogate failed high due to objective matrix interference.
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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Celest D. Keene

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST																									
Project Manager: Cliff Brunson		P.O. #:		TPH 8015 M BTEX CL-																									
Address: P.O. Box 805		Company:																											
City: Hobbs State: NM Zip: 88241		Attn: SAME																											
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:																											
Project #: Project Owner:		City:																											
Project Name: FEDERAL 12 #1 South BETA		State: Zip:																											
Project Location: C29		Phone #:																											
Sampler Name: JEFF ORVELAS		Fax #:																											
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		GRAB OR (COMP.)	# CONTAINERS	MATRIX				PRESERV.		SAMPLING																	
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
H102502																													
1 SP 1				6	1			✓				✓		11.8.11	230	✓	✓												
2 SP 2				6	1			✓				✓		11.8.11	233	✓	✓												
3 SP 3				6	1			✓				✓		11.9.11	230	✓	✓												
4 SP 4				6	1			✓				✓		11.5.11	235	✓	✓												
5 SP 5				6	1			✓				✓		11.5.11	242	✓	✓												

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Relinquished By: <i>[Signature]</i>		Date: 11/17/11		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 8:00						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Relinquished By: <i>[Signature]</i>		Date: 11/17/11		Received By: Jodi Hanson		REMARKS:	
Time: 10:00							
Delivered By: (Circle One)		Sample Condition		CHECKED BY: <i>[Signature]</i>			
Sampler - UPS - Bus - Other:		Cool Intact		(Initials)			
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No					

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

#26



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

January 17, 2012

Cliff Brunson
BBC International, Inc.
P.O. Box 805
Hobbs, NM 88241

RE: FEDERAL 12 #1 SOUTH BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/11/12 9:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	01/11/2012	Sampling Date:	01/05/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 1 @ 1' (H200053-01)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2012	ND	1.96	98.2	2.00	0.772	
Toluene*	<0.050	0.050	01/12/2012	ND	2.04	102	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/12/2012	ND	2.11	105	2.00	0.221	
Total Xylenes*	<0.150	0.150	01/12/2012	ND	6.49	108	6.00	0.940	

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	01/12/2012	ND	432	108	400	7.14	

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	01/12/2012	ND	214	107	200	6.19	
DRO >C10-C28	<10.0	10.0	01/12/2012	ND	200	100	200	5.58	

Surrogate: 1-Chlorooctane 118 % 55.5-154

Surrogate: 1-Chlorooctadecane 133 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	01/11/2012	Sampling Date:	01/05/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 1 @ 3' (H200053-02)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2012	ND	1.96	98.2	2.00	0.772	
Toluene*	<0.050	0.050	01/12/2012	ND	2.04	102	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/12/2012	ND	2.11	105	2.00	0.221	
Total Xylenes*	<0.150	0.150	01/12/2012	ND	6.49	108	6.00	0.940	

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	01/12/2012	ND	432	108	400	7.14	

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	01/12/2012	ND	214	107	200	6.19	
DRO >C10-C28	<10.0	10.0	01/12/2012	ND	200	100	200	5.58	

Surrogate: 1-Chlorooctane 104 % 55.5-154

Surrogate: 1-Chlorooctadecane 116 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received:	01/11/2012	Sampling Date:	01/05/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 1 @ 5' (H200053-03)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2012	ND	1.96	98.2	2.00	0.772	
Toluene*	<0.050	0.050	01/12/2012	ND	2.04	102	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/12/2012	ND	2.11	105	2.00	0.221	
Total Xylenes*	<0.150	0.150	01/12/2012	ND	6.49	108	6.00	0.940	

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	01/12/2012	ND	432	108	400	7.14	

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	01/12/2012	ND	214	107	200	6.19	
DRO >C10-C28	<10.0	10.0	01/12/2012	ND	200	100	200	5.58	

Surrogate: 1-Chlorooctane 110 % 55.5-154

Surrogate: 1-Chlorooctadecane 123 % 57.6-158

Sample ID: SP 1 @ 7' (H200053-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/12/2012	ND	432	108	400	7.14	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	01/11/2012	Sampling Date:	01/05/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 1 @ 10' (H200053-05)

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	01/12/2012	ND	432	108	400	7.14	

Sample ID: SP 2 @ 1' (H200053-06)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2012	ND	1.96	98.2	2.00	0.772	
Toluene*	<0.050	0.050	01/13/2012	ND	2.04	102	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/13/2012	ND	2.11	105	2.00	0.221	
Total Xylenes*	<0.150	0.150	01/13/2012	ND	6.49	108	6.00	0.940	

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/12/2012	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	01/12/2012	ND	214	107	200	6.19	
DRO >C10-C28	63.2	50.0	01/12/2012	ND	200	100	200	5.58	

Surrogate: 1-Chlorooctane 114 % 55.5-154

Surrogate: 1-Chlorooctadecane 136 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	01/11/2012	Sampling Date:	01/06/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 2 @ 3' (H200053-07)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2012	ND	1.96	98.2	2.00	0.772	
Toluene*	<0.050	0.050	01/12/2012	ND	2.04	102	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/12/2012	ND	2.11	105	2.00	0.221	
Total Xylenes*	<0.150	0.150	01/12/2012	ND	6.49	108	6.00	0.940	

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	01/12/2012	ND	432	108	400	7.14	

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	01/12/2012	ND	214	107	200	6.19	
DRO >C10-C28	<10.0	10.0	01/12/2012	ND	200	100	200	5.58	

Surrogate: 1-Chlorooctane 113 % 55.5-154

Surrogate: 1-Chlorooctadecane 126 % 57.6-158

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Analytical Results For:

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Cliff Brunson
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Hobbs NM, 88241
Fax To: (505) 397-0397

Received:	01/11/2012	Sampling Date:	01/06/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 2 @ 5' (H200053-08)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2012	ND	1.96	98.2	2.00	0.772	
Toluene*	<0.050	0.050	01/12/2012	ND	2.04	102	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/12/2012	ND	2.11	105	2.00	0.221	
Total Xylenes*	<0.150	0.150	01/12/2012	ND	6.49	108	6.00	0.940	

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	01/12/2012	ND	432	108	400	7.14	

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	01/12/2012	ND	214	107	200	6.19	
DRO >C10-C28	<10.0	10.0	01/12/2012	ND	200	100	200	5.58	

Surrogate: 1-Chlorooctane 109 % 55.5-154

Surrogate: 1-Chlorooctadecane 121 % 57.6-158

Sample ID: SP 2 @ 7' (H200053-09)

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	01/12/2012	ND	432	108	400	7.14	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	01/11/2012	Sampling Date:	01/06/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 2 @ 10' (H200053-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/12/2012	ND	432	108	400	7.14	

Sample ID: SP 3 @ 1' (H200053-11)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2012	ND	1.96	98.2	2.00	0.772	
Toluene*	<0.050	0.050	01/12/2012	ND	2.04	102	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/12/2012	ND	2.11	105	2.00	0.221	
Total Xylenes*	<0.150	0.150	01/12/2012	ND	6.49	108	6.00	0.940	

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	01/12/2012	ND	448	112	400	3.51	

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	01/12/2012	ND	214	107	200	6.19	
DRO >C10-C28	<10.0	10.0	01/12/2012	ND	200	100	200	5.58	

Surrogate: 1-Chlorooctane 108 % 55.5-154

Surrogate: 1-Chlorooctadecane 121 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received:	01/11/2012	Sampling Date:	01/06/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 3 @ 3' (H200053-12)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2012	ND	1.96	98.2	2.00	0.772	
Toluene*	<0.050	0.050	01/12/2012	ND	2.04	102	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/12/2012	ND	2.11	105	2.00	0.221	
Total Xylenes*	<0.150	0.150	01/12/2012	ND	6.49	108	6.00	0.940	

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	01/12/2012	ND	448	112	400	3.51	

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	01/12/2012	ND	214	107	200	6.19	
DRO >C10-C28	<10.0	10.0	01/12/2012	ND	200	100	200	5.58	

Surrogate: 1-Chlorooctane 108 % 55.5-154

Surrogate: 1-Chlorooctadecane 119 % 57.6-158

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	01/11/2012	Sampling Date:	01/06/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 3 @ 5' (H200053-13)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2012	ND	1.96	98.2	2.00	0.772	
Toluene*	0.051	0.050	01/12/2012	ND	2.04	102	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/12/2012	ND	2.11	105	2.00	0.221	
Total Xylenes*	<0.150	0.150	01/12/2012	ND	6.49	108	6.00	0.940	

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/12/2012	ND	448	112	400	3.51	

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	01/12/2012	ND	214	107	200	6.19	
DRO >C10-C28	<10.0	10.0	01/12/2012	ND	200	100	200	5.58	

Surrogate: 1-Chlorooctane 106 % 55.5-154

Surrogate: 1-Chlorooctadecane 116 % 57.6-158

Sample ID: SP 3 @ 7' (H200053-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/12/2012	ND	448	112	400	3.51	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	01/11/2012	Sampling Date:	01/06/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 3 @ 10' (H200053-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/12/2012	ND	448	112	400	3.51	

Sample ID: SP 4 @ 1' (H200053-16)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2012	ND	1.96	98.2	2.00	0.772	
Toluene*	<0.050	0.050	01/12/2012	ND	2.04	102	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/12/2012	ND	2.11	105	2.00	0.221	
Total Xylenes*	<0.150	0.150	01/12/2012	ND	6.49	108	6.00	0.940	

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/12/2012	ND	448	112	400	3.51	

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	01/12/2012	ND	214	107	200	6.19	
DRO >C10-C28	<10.0	10.0	01/12/2012	ND	200	100	200	5.58	

Surrogate: 1-Chlorooctane 117 % 55.5-154

Surrogate: 1-Chlorooctadecane 129 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	01/11/2012	Sampling Date:	01/09/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 4 @ 2' (H200053-17)

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2012	ND	1.96	98.2	2.00	0.772	
Toluene*	0.067	0.050	01/12/2012	ND	2.04	102	2.00	2.13	
Ethylbenzene*	1.22	0.050	01/12/2012	ND	2.11	105	2.00	0.221	
Total Xylenes*	1.65	0.150	01/12/2012	ND	6.49	108	6.00	0.940	

Surrogate: 4-Bromofluorobenzene (PIL) 327 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/12/2012	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	257	100	01/13/2012	ND	207	103	200	0.615	
DRO >C10-C28	4770	100	01/13/2012	ND	188	93.9	200	0.158	

Surrogate: 1-Chlorooctane 139 % 55.5-154

Surrogate: 1-Chlorooctadecane 131 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	01/11/2012	Sampling Date:	01/09/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 5 @ 1' (H200053-18)

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2012	ND	1.96	98.2	2.00	0.772	
Toluene*	0.275	0.050	01/12/2012	ND	2.04	102	2.00	2.13	
Ethylbenzene*	1.11	0.050	01/12/2012	ND	2.11	105	2.00	0.221	
Total Xylenes*	2.08	0.150	01/12/2012	ND	6.49	108	6.00	0.940	

Surrogate: 4-Bromofluorobenzene (PIL) 225 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	01/12/2012	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	01/13/2012	ND	207	103	200	0.615	
DRO >C10-C28	2330	100	01/13/2012	ND	188	93.9	200	0.158	

Surrogate: 1-Chlorooctane 124 % 55.5-154

Surrogate: 1-Chlorooctadecane 134 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	01/11/2012	Sampling Date:	01/09/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 5 @ 2' (H200053-19)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2012	ND	1.96	98.2	2.00	0.772	
Toluene*	<0.050	0.050	01/12/2012	ND	2.04	102	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/12/2012	ND	2.11	105	2.00	0.221	
Total Xylenes*	<0.150	0.150	01/12/2012	ND	6.49	108	6.00	0.940	

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 64.4-134

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	01/12/2012	ND	448	112	400	3.51	

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	01/13/2012	ND	207	103	200	0.615	
DRO >C10-C28	<10.0	10.0	01/13/2012	ND	188	93.9	200	0.158	

Surrogate: 1-Chlorooctane 100 % 55.5-154

Surrogate: 1-Chlorooctadecane 111 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	01/11/2012	Sampling Date:	01/09/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SP 5 @ 4' (H200053-20)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2012	ND	1.96	98.2	2.00	0.772	
Toluene*	<0.050	0.050	01/12/2012	ND	2.04	102	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/12/2012	ND	2.11	105	2.00	0.221	
Total Xylenes*	<0.150	0.150	01/12/2012	ND	6.49	108	6.00	0.940	

Surrogate: 4-Bromofluorobenzene (PIL) 130 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/12/2012	ND	448	112	400	3.51	

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	01/13/2012	ND	207	103	200	0.615	
DRO >C10-C28	442	10.0	01/13/2012	ND	188	93.9	200	0.158	

Surrogate: 1-Chlorooctane 104 % 55.5-154

Surrogate: 1-Chlorooctadecane 124 % 57.6-158

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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

Celey D. Keene, Lab Director/Quality Manager

1/2



CARDINAL 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 State: NM Zip: 88241		Attn:											
Phone #: 575-397-6388 Fax #: 575-397-0397		Address: Same											
Project #: Project Owner: OXY		City:											
Project Name: Federal 12-1 South Betty		State: Zip:											
Project Location: C29		Phone #:											
Sampler Name: Jeff Orne LS		Fax #:											

Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	7/PT	BTEX	CL-
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
H200053																
11	SP 3 @ 1'	G 1			X				X		1-6-12	100	X	X	X	
12	SP 3 @ 3'	G 1			X				X			130	X	X	X	
13	SP 3 @ 5'	G 1			X				X			210	X	X	X	
14	SP 3 @ 7'	G 1			X				X			240			X	
15	SP 3 @ 10'	G 1			X				X			330			X	
16	SP 4 @ 1'	G 1			X				X		1-9-12	916	X	X	X	
17	SP 4 @ 2'	G 1			X				X			943	X	X	X	
18	SP 5 @ 1'	G 1			X				X			1111	X	X	X	
19	SP 5 @ 2'	G 1			X				X			1130	X	X	X	
20	SP 5 @ 4'	G 1			X				X			1209	X	X	X	

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Relinquished By: Jeff Orne LS	Date: 1-10-12 Time: 9:35	Received By: Jodi Merson	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	30c	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) JST	

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

#26

Released to Imaging: 9/7/2023 2:56:32 PM

Received by OCD: 4/18/2023 7:06:52 PM

Page 58 of 70



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

September 11, 2013

Cliff Brunson
BBC International, Inc.
P.O. Box 805
Hobbs, NM 88241

RE: FEDERAL 12 #1 SOUTH BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/04/13 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 cursive script that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/04/2013	Sampling Date:	09/03/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SW 1 NORTH CONFIRMATION (H302144-01)

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	09/10/2013	ND	1.85	92.6	2.00	6.48	
Toluene*	<0.050	0.050	09/10/2013	ND	1.87	93.3	2.00	7.38	
Ethylbenzene*	<0.050	0.050	09/10/2013	ND	1.93	96.4	2.00	7.53	
Total Xylenes*	<0.150	0.150	09/10/2013	ND	5.78	96.3	6.00	8.29	
Total BTEX	<0.300	0.300	09/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	<16.0	16.0	09/06/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	

Surrogate: 1-Chlorooctane 88.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.9 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/04/2013	Sampling Date:	09/03/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SW 2 SOUTH CONFIRMATION (H302144-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2013	ND	1.85	92.6	2.00	6.48	
Toluene*	<0.050	0.050	09/10/2013	ND	1.87	93.3	2.00	7.38	
Ethylbenzene*	<0.050	0.050	09/10/2013	ND	1.93	96.4	2.00	7.53	
Total Xylenes*	<0.150	0.150	09/10/2013	ND	5.78	96.3	6.00	8.29	
Total BTEX	<0.300	0.300	09/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

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	09/06/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	

Surrogate: 1-Chlorooctane 82.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/04/2013	Sampling Date:	09/03/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SW 3 WEST CONFIRMATION (H302144-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2013	ND	1.85	92.6	2.00	6.48	
Toluene*	<0.050	0.050	09/10/2013	ND	1.87	93.3	2.00	7.38	
Ethylbenzene*	<0.050	0.050	09/10/2013	ND	1.93	96.4	2.00	7.53	
Total Xylenes*	<0.150	0.150	09/10/2013	ND	5.78	96.3	6.00	8.29	
Total BTEX	<0.300	0.300	09/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

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	09/06/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	

Surrogate: 1-Chlorooctane 87.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.8 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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:	09/04/2013	Sampling Date:	09/03/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: SW 4 EAST CONFIRMATION (H302144-04)

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	09/10/2013	ND	1.85	92.6	2.00	6.48	
Toluene*	<0.050	0.050	09/10/2013	ND	1.87	93.3	2.00	7.38	
Ethylbenzene*	<0.050	0.050	09/10/2013	ND	1.93	96.4	2.00	7.53	
Total Xylenes*	<0.150	0.150	09/10/2013	ND	5.78	96.3	6.00	8.29	
Total BTEX	<0.300	0.300	09/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

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	09/06/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	

Surrogate: 1-Chlorooctane 86.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.9 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/04/2013	Sampling Date:	09/03/2013
Reported:	09/11/2013	Sampling Type:	Soil
Project Name:	FEDERAL 12 #1 SOUTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C 29		

Sample ID: BOTTOM CONFIRMATION (H302144-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2013	ND	1.85	92.6	2.00	6.48	
Toluene*	<0.050	0.050	09/10/2013	ND	1.87	93.3	2.00	7.38	
Ethylbenzene*	<0.050	0.050	09/10/2013	ND	1.93	96.4	2.00	7.53	
Total Xylenes*	<0.150	0.150	09/10/2013	ND	5.78	96.3	6.00	8.29	
Total BTEX	<0.300	0.300	09/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

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	09/06/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	

Surrogate: 1-Chlorooctane 88.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.0 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs Phone #: 575-397-6388 Project #: _____ Project Name: Fed 12 South Battery Project Location: C-29 Sampler Name: Gary Ray FOR LAB USE ONLY		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____									
State: NM Zip: 88241 Fax #: 575-397-0397		BILL TO									
Project Owner: Gary Project Name: Fed 12 South Battery Project Location: C-29 Sampler Name: Gary Ray		ANALYSIS REQUEST									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	CL -	TP4	B-TX
H302144	1 SW 2 North Conference Rd		1	GROUNDWATER			9-3-13	8:00	X	X	X
	2 SW 2 South Conference Rd		2	WASTEWATER			9-3-13	2:05	X	X	X
	3 SW 3 West Conference Rd		2	SOIL			9-3-13	2:15	X	X	X
	4 SW 4 East Conference Rd		2	SOIL			9-3-13	2:20	X	X	X
	5 Bottom Conference Rd		2	SLUDGE							
				OTHER:							
				ACID/BASE:							
				ICE / COOL							
				OTHER:							

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Relinquished By: *[Signature]* Date: 5-3-13 Time: 5:00 PM Received By: *[Signature]* Date: 9-4-13 Time: 4:50 PM

Delivered By: (Circle One) *[Signature]* Sample Condition: Cool/Intact/Yes/No Yes No

Sampler - UPS - Bus - Other: *10c* Checked By: *[Signature]* (Initials)

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: _____

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 #54

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Thursday, November 15, 2012 1:42 PM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Kathy Purvis; Jennifer Gilkey
Subject: RE: Oxy - Federal 12-1 South Battery

Reference: OXY USA * Federal 12-1 (South Battery) * 30-015-26742 * M-12-22s-31e * Eddy County, New Mexico

OCD Tracking Number: 2RP-1404 * Date of release: 11/2/11

Cliff,

Your proposal for remediation of the above referenced release is approved with the following conditions/stipulations:

- Notify OCD 48 hours prior to commencement of remedial operations.
- Notify OCD 48 hours prior to obtaining samples where the analyses will be submitted to OCD.
- Obtain representative confirmation samples of bottoms and sidewalls of excavation/excavations.
- Deeper excavation may be required in the area identified as SP2 due to elevated chloride levels at the 5' interval.
- Deeper excavation may be required in the area identified as SP4 due to elevated TPH levels at the 2' interval.
- Obtain approval prior to backfilling any excavation.
- Submit a closure report and Form C-141 marked Final Report upon satisfactory completion of project.
- Approval by BLM and/or any other regulatory authority as may be applicable.

***NOTE* : OCD has a notification of this release, received via email on November 3, 2011. The reported release volume was 100 bbls of produced water and 3 bbls of oil, with 80 bbls total fluid recovered. The indicated date of release was November 2, 2011. OCD has no record of having received an Initial Report Form C-141 for this release. Please provide the Form C-141 for reporting this release. If the form has been previously submitted, please provide a copy of that submittal, along with the date and method of submission. Also, if this remediation proposal is not for this referenced release (release date 11/2/11), please advise immediately. Also, check that the API number listed above matches OXY's record for this site.**

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 notifications, 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, September 11, 2012 7:33 PM
To: Bratcher, Mike, EMNRD
Cc: C J Summers; Ken Swinney; Kathy Purvis; Jennifer Gilkey
Subject: Oxy - Federal 12-1 South Battery

Mike,

This e-mail is to confirm our discussion on September 5, 2012 concerning the remediation plan for the release that occurred at the Oxy Federal 12-1 South Battery. As agreed, Oxy will excavate 3 feet or as practicable in the areas covered by SP1 - SP3 and will excavate to a depth of 1 foot in the areas covered by SP4 – SP5 as depicted on the attached site diagram. The excavation will then be backfilled with clean soil. The depth to groundwater in this area is approximately 100 feet.

I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. If you would please reply back via e-mail with your concurrence of this remediation plan, it would be greatly appreciated.

Oxy and I thank you for your assistance in handling this matter.

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
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E-Mail: cbrunson@bbcinternational.com

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Kathy Purvis

From: Amos, James <jamos@blm.gov>
Sent: Monday, December 17, 2012 9:32 AM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Re: Oxy Federal 12-1 South Battery

On Mon, Dec 17, 2012 at 8:39 AM, Amos, James <jamos@blm.gov> wrote:
Everybody,

I'm good with Mike's assessment of the remediation plan and his conditions of approval. Keep me in the loop as far as notification of start and prior to closure. I'm like Mike, I need a copy of the initial spill report. I've one major concern. The date of the release, 11/2/11 was over a year ago and we've just not got a plan in place. As everyone knows we're dodging bullets as it relates to chickens and lizards. This site is just adjacent to one of the Habitat Evaluation Areas for the LPC. This next year will be critical to the listing or not. We will be having all kinds of environmental folks, in these areas, looking for the chance to find O&G not doing a good job. Just a thought. I would like to see these events ready to close in 3-4 months at the max. If any thoughts or questions, please get back to me.

Thanks,

J. Amos

On Sun, Dec 16, 2012 at 6:35 PM, Cliff P. Brunson <cbrunson@bbcinternational.com> wrote:
Jim,

I have attached a remediation packet of information for your review. This packet includes the approval from the NMOCD, a site diagram with sample points and remediation/excavations area depicted, a lab data summary table, and the original lab data.

Oxy proposes to the BLM to conduct the remediation plan approved by the NMOCD. In the areas covered by SP1 and SP2, the soil will be excavated to a depth of 3 feet or as practicable. In the area covered by SP2, the soil will be excavated to a depth of 6 feet or as practicable and in the area covered by SP4, the excavation will be 3 feet deep. In the area covered by SP5, the excavation will be 1 foot deep. An initial response was conducted at the time of the release and approximately 6 inches of soil was excavated to remove the highest concentration of impacted soil. After the excavation is completed, all areas will be backfilled with the appropriate material.

Oxy is therefore requesting the approval of the BLM to proceed with the submitted remediation plan. If you would please respond back via e-mail with your approval, it would be greatly appreciated. If you have any questions, please let us know.

Thank you,

Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 208841

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 208841
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NKMW1109428378 FEDERAL 12 #001, thank you. This closure is approved.	9/7/2023