Closure Report

Site Description						
Site Name:	Lotos Federal #4 Battery					
Company:	Chevron USA					
Legal Description:	U/L J, Section 9, T24S, R31E					
County:	Eddy County, NM					
GPS Coordinates:	N 32.23100° W 103.78130°					

Release Data							
Date of Release:	12/10/2015						
Type of Release:	Oil and produced water						
Source of Release:	Test Separator overflow due to dump valve failure						
Volume of Release:	0.9 bbl oil, 15 bbls produced water						
Volume Recovered:	0.75 bbl oil, 14.5 bbls produced water						

Remediation Specifications						
Remediation Parameters:	Excavate the entire leak area to a depth of 1 foot. Backfill the site with clean soil.					
Remediation Activities:	06/07/2016 to 06/23/2016					

Plan Sent to OCD:	06/01/2016	Meeting/ Cliff Brunson and Mike Bratcher
OCD Approval of Plan:	06/01/2016	Meeting/ Cliff Brunson and Mike Bratcher
Plan Sent to BLM:	06/01/2016	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	06/01/2016	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation						
Initial C-141	Signed 12/17/2015					
Final C-141	Signed 07/15/2016					
Site Diagram	January 2016					
Groundwater Plot	225'					
TOPO Maps	January 2016					
Lab Summary	03/21/2016					
Lab Analysis	03/21/2016					
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.

07/20/2016

District 1
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

N 00						OPERATOR						l Repor	
Name of Co		Chevron US				Contact Stephen Gwin							
Address	1616 W. B	ender Blvd,	Hobbs, N	NM 88240		Telephone No. 575-408-0073							
Facility Nar	ne Lotu	s Federal #4	Battery			Facility Type Battery							
Surface Ow	ner BLN	M		Mineral (Owner			1000	API No	. 30-015	-275	593	
				LOCA	ATIO	N OF REI	FACE						
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/V	Vest Line	County	2-12		
J	9	24S	31E	2310		South	2310		East			D. 4	
			I	atitude N 32.2	3087°		de W 103.7812		Last	Eddy Cour	ny, r	VIVI	
				NAT	URE	OF RELI							
Type of Relea	ase Oil ar	nd Produced v	vater	-		Volume of		ls oil.	Volume F	Recovered	0.75	bbls oil.	
Source of Rel	eace Too	t company)	0 1				duced water		14.5 bbls	produced wa	ater		,
Source of Rei	case 1es	i separator ov	ernow due	to dump valve fa	ailure		our of Occurrence	e	Date and	Hour of Disc	cover	у	
Was Immedia	te Notice G	iven?				If YES, To	@ 10:00 am Whom?		12/10/201	5 @ 10:00 a	m		
			Yes	No 🛛 Not Re	quired		830777,707877.8						
By Whom?						Date and H	our						
Was a Watero	ourse Reac	hed?	Yes 🛛	No		If YES, Vo	lume Impacting t	he Wate	rcourse.				
If a Watercou	rse was Imp	pacted, Descri	be Fully.*										
	The second of th												
Describe Caus	se of Proble	m and Remed	lial Action	Taken.*									
A dump valva	failura	1			BC // DOLLAR COMM								
vacuum truck	recovered ().75 bbls oil a	nd 14.5 bb	verflow and leak ols produced wate	0.9 bbls	of oil and 15 valve was rese	bbls of produced t/replaced.	water o	nto the gro	und inside th	ie bei	rm. A	
Describe Area	Affected a	nd Cleanup A	ction Take	en.*									
The areas affe	cted were o		251 111										
north side of the	he battery.	Remediation	will be con	inside the berm o mpleted in accord	n locati	on and an add	itional overspray	area me	asuring app	oroximately	19' x	: 11' on t	the
											86		
I hereby certif	y that the in	formation giv	en above	is true and compl	ete to th	ne best of my l	cnowledge and ur	nderstan	d that pursi	uant to NMC	CD	rules and	1
				d/or file certain re									
													y olth
	ment. In ha	dittoll, INIVIO	or accept	ance of a C-141 r	eport de	es not relieve	the operator of re	esponsib	oility for co	mpliance wat	th an	wother	aith
federal, state, o	or iocai iaw	s and/or regul	ations.										
	CL	0 1	7		- 4		OIL CONS	SERV.	ATION :	DIVISIO	N		
Signature:	There	Int.	him										
Printed Name:	Stephen	Gwin	*		1	Approved by I	Environmental Sp	ecialist:					
Title: HES S	Specialist							T	72 20 × 44 × 190				
1120 opecialist					- -	Approval Date	:	LE:	xpiration D	ate:			
E-mail Address	s: Stephe	n.gwin@chev	ron.com			Conditions of A	Approval:				_		
Date: 12/1	nhou	_	Dhe	575 400 00E2						Attached			
Attach Addition	onal Sheet	s If Necessar	Phone:	575-408-0073									

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

State of New Mexico Energy Minerals and Natural Resources

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

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

Form C-141

Revised August 8, 2011

	Release Notification and Corrective Action											
					OPERA'	ГOR		Initial	al Report	\boxtimes	Final Repor	
Name of Co		Chevron US		D 4 000 40	_	Contact Stephen Gwin						
Address Facility Nar		ender Blvd, s Federal #4		IM 88240	-	Telephone 1 Facility Typ		00/3				
			Dattery			racinty Typ	battery					
Surface Ow	ner BLN	M		Mineral C	wner				API No	. 30-015	-2759	13
						N OF RE						
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/\	West Line	County		
Ј	9	24S	31E	2310		South	2310		East	Eddy Cou	nty, N	М
			I	Latitude N 32.2	3087°	Longitu	de <u>W 103.7812</u>	0°				
				NAT	URE	OF REL	EASE					
Type of Rele	ase Oil a	nd Produced v	vater			Volume of	Release 0.9 bb	ols oil,	CONTRACTOR DESCRIPTION			bbls oil,
Source of Re	lease Tes	st separator ov	erflow du	e to dump valve fa	ailure		oduced water Iour of Occurrence	e		produced w Hour of Dis		/
							5 @ 10:00 am		12/10/20	15 @ 10:00	am	
Was Immedia	ate Notice (Yes	No Not Re	equired	If YES, To	Whom?					
By Whom?						Date and H	Iour					
Was a Water	course Read	ched?	Yes 🗵	l No		If YES, Vo	olume Impacting t	he Wate	ercourse.			
If a Watercon	irce was Im	pacted, Descr		3//								
Ta watercoo	irse was iiii	pacted, Descr	ioc i uny.									
Describe Cau	se of Probl	em and Reme	dial Action	n Taken.*								
				overflow and leak				l water	onto the gro	ound inside	the ber	m. A
vacuum truck	recovered	0.75 bbls oil a	and 14.5 b	bls produced water	er. The	valve was res	et/replaced.					
Describe Are	a Affected	and Cleanup A	Action Tak	cen.*								
				inside the berm o								
		Remediation M via email o		pleted in accordan	ice with	the remediati	on plan approved	by Mik	e Bratcher	of NMOCE	and a	pproved by
				is true and comp nd/or file certain r								
public health	or the envi	ronment. The	acceptano	ce of a C-141 repo	ort by th	e NMOCD m	arked as "Final R	eport" o	loes not rel	ieve the ope	rator o	f liability
				investigate and r								
		ws and/or regu		otance of a C-141	report c	loes not reliev	e the operator of	respons	ibility for c	ompliance v	vith an	y other
	OIL CONSERVATION DIVISION											
Signature:	Signature:											
Printed Name: Stephen Gwin						Approved by Environmental Specialist:						
Title: HES	Specialist				-	Approval Da	ic.		Expiration	Date:		
E-mail Addre	ess: Steph	nen.gwin@che	evron.com			Conditions of	f Approval:			Attached		
Date: 9/15/2016 Phone: 575-408-0073												

* Attach Additional Sheets If Necessary

Chevron **Lotos Federal #4 Battery** Road **Pump Leak Area** 1' Excavation, then deferral 54' x 34' Lines U/L J, Section 9, T24S, R31E Eddy County, NM **BBC International, Inc.** Chevron N 32.23100° W 103.78130° **Lotos Federal #4 Battery** API# 30-015-27593 Date: 01/11/2016 DRWG by: K. Purvis NOT TO SCALE File: Chevron 2015

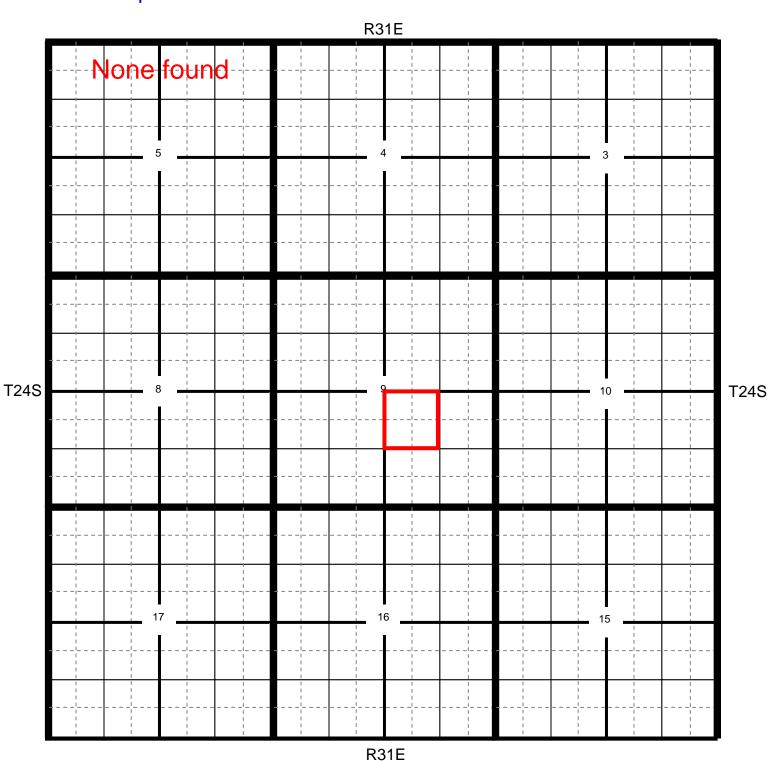


Groundwater Plot

Chevron Lotos Federal #4 Battery

CountyUnit LetterSectionTownshipRangeEddyJ924S31E

Trend Map 225'



Location

OCD

USGS

SEO

All Databases

Chevron Lotos Federal #4 Battery

CountyUnit LetterSectionTownshipRangeEddyJ924S31E

Trend Map 225'

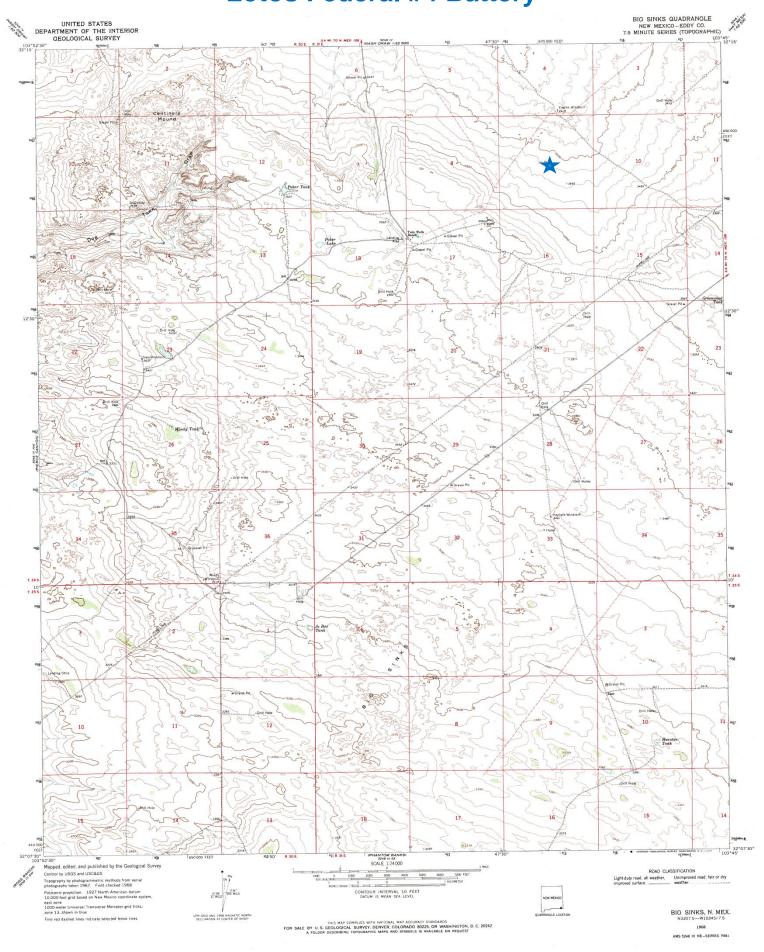
1

		NE/NE
Unit Letter C	Unit Letter B	Unit Letter A
SE/NW	SWINE	SE/NE
Unit Letter F	Unit Letter G	Unit Letter H
NE/SW	NW∤SE	NE/SE
Unit Letter K	Unit Letter J	Unit Letter I
SE/SW	SW/SE	SE/SE
 		Unit Letter P
	SE/NW Unit Letter F NE/SW Unit Letter K	Unit Letter F Unit Letter G NE/SW NW/SE Unit Letter K Unit Letter J SE/SW SW/SE

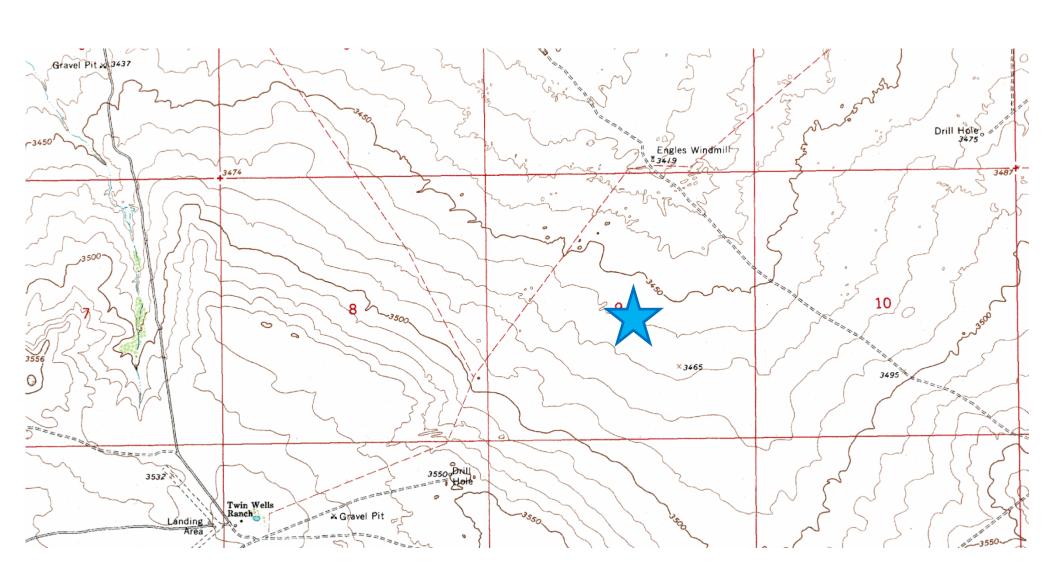
3

Chevron

Lotos Federal #4 Battery



Chevron Lotos Federal #4 Battery



Laboratory Analytical Results Summary Chevron, Lotos Federal #4 Battery

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	3/21/16	3/21/16	3/21/16	3/21/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	< 0.150	< 0.150	< 0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		1220	2800	3200	1540
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		41.3	<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	3/21/16	3/21/16	3/21/16	3/21/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		< 0.150	< 0.150	< 0.150	< 0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		1220	3360	2760	240
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		15.4	74.2	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	3/21/16	3/21/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300
Chloride	SM4500CI-B		480	48
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	112

		Sample	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	3/21/16	3/21/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050
Total Xylenes	BTEX 8021B		< 0.150	< 0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300
Chloride	SM4500CI-B		512	48
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	14.3



March 31, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOTOS FED #4 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/23/16 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 03/23/2016 Sampling Date: 03/21/2016

Reported: 03/31/2016 Sampling Type: Soil

Project Name: LOTOS FED #4 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H600628-01)

Project Location:

BTEX 8021B mg/kg Analyzed By: MS

NOT GIVEN

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	03/24/2016	ND	2.00	99.9	2.00	3.95	
<0.050	0.050	03/24/2016	ND	1.93	96.5	2.00	4.58	
<0.050	0.050	03/24/2016	ND	1.71	85.6	2.00	5.45	
<0.150	0.150	03/24/2016	ND	5.26	87.7	6.00	5.58	
<0.300	0.300	03/24/2016	ND					
	<0.050 <0.050 <0.050 <0.150	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Surrogate:	4-Bromofluorobenzene	(PID	104 %	73.6-140

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	03/24/2016	ND	368	92.0	400	8.33	
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	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	41.3	10.0	03/24/2016	ND	200	99.8	200	17.4	

Surrogate: 1-Chlorooctane 106 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 28-171

Cardinal Laboratories *=Accredited Analyte

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 03/23/2016 Sampling Date: 03/21/2016

Reported: 03/31/2016 Sampling Type: Soil

Project Name: LOTOS FED #4 BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: SP 1 @ 2' (H600628-02)

STEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2016	ND	2.00	99.9	2.00	3.95	
Toluene*	<0.050	0.050	03/24/2016	ND	1.93	96.5	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/24/2016	ND	1.71	85.6	2.00	5.45	
Total Xylenes*	<0.150	0.150	03/24/2016	ND	5.26	87.7	6.00	5.58	
Total BTEX	<0.300	0.300	03/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	200	99.8	200	17.4	
Surrogate: 1-Chlorooctane	104 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	1129	% 28-171	,						

112 % Surrogate: 1-Chlorooctadecane 28-171

Cardinal Laboratories *=Accredited Analyte

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 03/23/2016 Sampling Date: 03/21/2016

Reported: 03/31/2016 Sampling Type: Soil

Project Name: LOTOS FED #4 BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: SP 1 @ 3' (H600628-03)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2016	ND	2.00	99.9	2.00	3.95	
Toluene*	<0.050	0.050	03/24/2016	ND	1.93	96.5	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/24/2016	ND	1.71	85.6	2.00	5.45	
Total Xylenes*	<0.150	0.150	03/24/2016	ND	5.26	87.7	6.00	5.58	
Total BTEX	<0.300	0.300	03/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	200	99.8	200	17.4	
Surrogate: 1-Chlorooctane	103 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	123	% 28-171							

Surrogate: 1-Chlorooctadecane 123 % 28-171

Cardinal Laboratories *=Accredited Analyte

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 03/23/2016 Sampling Date: 03/21/2016

Reported: 03/31/2016 Sampling Type: Soil

Project Name: LOTOS FED #4 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SP 1 @ 4' (H600628-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	< 0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	< 0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTEX	<0.300	0.300	03/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	200	99.8	200	17.4	
Surrogate: 1-Chlorooctane	101 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	122 9	% 28-171							

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Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 03/23/2016 Sampling Date: 03/21/2016

Reported: 03/31/2016 Sampling Type: Soil

Project Name: LOTOS FED #4 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SP 2 @ 1' (H600628-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTEX	<0.300	0.300	03/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	15.4	10.0	03/24/2016	ND	200	99.8	200	17.4	
Surrogate: 1-Chlorooctane	108 %	35-147	,						

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Celey D. Keine

Surrogate: 1-Chlorooctadecane

134 %

28-171



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Fax To: (575) 397-0397

Received: 03/23/2016 Sampling Date: 03/21/2016

Reported: 03/31/2016 Sampling Type: Soil

Project Name: LOTOS FED #4 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SP 2 @ 2' (H600628-06)

STEX 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	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTEX	<0.300	0.300	03/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	74.2	10.0	03/24/2016	ND	200	99.8	200	17.4	
Surrogate: 1-Chlorooctane	108 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	136 9	% 28-171							

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Received: 03/23/2016 Sampling Date: 03/21/2016

Reported: 03/31/2016 Sampling Type: Soil

Project Name: LOTOS FED #4 BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: SP 2 @ 3' (H600628-07)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	< 0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	< 0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTEX	<0.300	0.300	03/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	200	99.8	200	17.4	
Surrogate: 1-Chlorooctane	108 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	115 9	6 28-171							

115 % Surrogate: 1-Chlorooctadecane 28-171

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Received: 03/23/2016 Sampling Date: 03/21/2016

Reported: 03/31/2016 Sampling Type: Soil

Project Name: LOTOS FED #4 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SP 2 @ 4' (H600628-08)

3TEX 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	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	< 0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	< 0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTEX	<0.300	0.300	03/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/24/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	200	99.8	200	17.4	
Surrogate: 1-Chlorooctane	101 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	119 9	6 28-171							

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Received: 03/23/2016 Sampling Date: 03/21/2016

Reported: 03/31/2016 Sampling Type: Soil

Project Name: LOTOS FED #4 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SP 3 @ 1' (H600628-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	< 0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTEX	<0.300	0.300	03/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/24/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	200	99.8	200	17.4	
Surrogate: 1-Chlorooctane	103 %	6 35-147	,						
Surrogate: 1-Chlorooctadecane	115 %	6 28-171							

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Fax To: (575) 397-0397

Received: 03/23/2016 Sampling Date: 03/21/2016

Reported: 03/31/2016 Sampling Type: Soil

Project Name: LOTOS FED #4 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

NOT GIVEN

Sample ID: SP 3 @ 2' (H600628-10)

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTEX	<0.300	0.300	03/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/28/2016	ND	179	89.3	200	3.87	
DRO >C10-C28	112	10.0	03/28/2016	ND	160	79.9	200	4.90	QM-07, QR-03
Surrogate: 1-Chlorooctane	109 %	6 35-147	,						

Surrogate: 1-Chlorooctadecane 113 % 28-171

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Fax To: (575) 397-0397

Received: 03/23/2016 Sampling Date: 03/21/2016

Reported: 03/31/2016 Sampling Type: Soil

Project Name: LOTOS FED #4 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SP 4 @ 1' (H600628-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTEX	<0.300	0.300	03/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/24/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	196	97.9	200	3.19	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	200	99.8	200	7.50	
Surrogate: 1-Chlorooctane	57.2	% 35-147	,						
Surrogate: 1-Chlorooctadecane	63.8	% 28-171							

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Fax To: (575) 397-0397

Received: 03/23/2016 Sampling Date: 03/21/2016

Reported: 03/31/2016 Sampling Type: Soil

Project Name: LOTOS FED #4 BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: SP 4 @ 2' (H600628-12)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTEX	<0.300	0.300	03/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0 16.0		03/24/2016 ND		400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	196	97.9	200	3.19	
DRO >C10-C28	14.3	10.0	03/24/2016	ND	200	99.8	200	7.50	
Surrogate: 1-Chlorooctane	89.8	% 35-147	,						
Surrogate: 1-Chlorooctadecane	95.7	% 28-171							

Surrogate: 1-Chlorooctadecane 95.7 % 28-171

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		tion CUECUES BV.	Sample Cond	" (Circle One)	Delivered By: (Circle One)
			•	Time:	
			Received By:	y: Date:	Relinquished By:
Add'l Fax #:			Necessary DA	Time:	P
		on, business interruptions; loss of use, or loss of profits incurred by o ess of whether such claim is based upon any of the above stated rea	ential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, services hereurder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise.	service. In no event shall Cardinal be liable for incidental or consequental damages, in affiliates or successors arising out of or reliated to the parformance of services hereund Re [in out let had Ru.	service. In no event shall Coaffiliates or successors arising Relinoutes and Reli
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	S	Address:	575-397-0397	Fax#:	Phone #: 575-397-6388
		Attn:	IM Zip: 88241	State: NM	city: Hobbs
		Company:		D. Box 805	Address: P.O. Box 805
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ANALYSIS REQUEST		हार र र	/	Company Name: BBC International, Inc.	Company Nam

Sampler - UPS - Bus - Other:

I I AROBATORIES

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

Date: Date:	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, 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 competion of the applicable service. In no event shall Cardinal be liable for incidental or consequential diarnages, including without imitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.				1,2 24 (0)2,	7 1	# CO GRO WAS SOIL	ONTAIN OUNDV STEWA	R (C)OMINERS	FOR LAB USE ONLY MATRIX	Sampler Name: IRE OWSEN	Project Location:	Project Name: Lobs Fel #4 bhy	Project #: Project Owner: (NO)/CM	Phone #: 575-397-6388 Fax #: 575-397-0397	City: Hobbs State: NM Zip: 88241	Address: P.O. Box 805	Project Manager: Cliff Brunson	Company Name: BBC International, Inc.
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2478

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

7 47

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

From: <u>Tucker, Shelly</u>
To: <u>Cliff Brunson</u>

Cc: <u>Stephen Gwin; Ken Swinney; Jennifer Gilkey; Kathy Purvis</u>

Subject: Re: Chevron-Lotos Federal #4 Battery

Date: Wednesday, June 1, 2016 12:40:40 PM

BLM concurs with the NMOCD and accept/approves your proposed work plan.

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

Sincerely,

Shelly J Tucker

Environmental Protection Specialist Bureau of Land Management

620 E. Greene St Carlsbad, NM 88220

575.234.5905 - Direct 575.361.0084 - *Cellular*

stucker@blm.gov



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

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On Wed, Jun 1, 2016 at 10:41 AM, Cliff Brunson cbrunson@bbcinternational.com wrote:

Shelly,

Attached is the remediation plan for the Chevron Lotos Federal #4 Battery release. As we

discussed,	Mike	Bratcher	has	approved	this	plan	to	excavate	1 1	foot then	place	this	battery	on
deferral.														

If you would please email your concurrence, it would be greatly appreciated. If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

Mailing Address:

P. O. Box 805

Hobbs, NM 88241-0805 USA

Shipping Address:

1324 W. Marland St.

Hobbs, NM 88240 USA

Phone: (575) 397-6388

Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com

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