### **Closure Report**

	Site Description
Site Name:	Hackberry 6 Fed Com #4H
Company:	Oxy Permian Ltd.
Legal Description:	U/L C, Section 6, T19S, R31E
County:	Eddy County, NM
GPS Coordinates:	N 32.69558° W 103.91203°

	Release Data
Date of Release:	07/19/2015
Type of Release:	Oil
Source of Release:	Packing on stuffing box blew out
Volume of Release:	8 bbls
Volume Recovered:	6 bbls

	Remediation Specifications
Remediation Parameters:	Excavate to a depth of 1 foot in the areas of SP1, SP2, SP3, SP5, and SP6. Surface scrape the area around SP4. Backfill the site with clean soil.
Remediation Activities:	February 2016

Plan Sent to OCD:	09/26/2015	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	09/26/2015	Verbal Agreement only
Plan Sent to BLM:	09/26/2015	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	09/26/2015	Verbal Agreement only

	Supporting Documentation
Initial C-141	Signed 08/13/2015
Final C-141	Signed 02/23/2016
Site Diagram	July 2015
Groundwater Plot	150'-175'
TOPO Maps	July 2015
Lab Summary	07/28/2015-07/29/2015
Lab Analysis	07/28/2015-07/29/2015
Correspondence	Request and approval of remediation plan via email

### **Request for Closure**

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

Cliff Brunson, President of BBC International Inc.

02/26/2016

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

### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

			Rel	ease Notific	atio			ctio	n		
Name of Co	nmany	Oxy Permia	n I td			OPERA'				ial Report	Final Repo
		rive, Midland		705		Contact C	CJ Summers No. (432) 685	5001			
Facility Na		kberry 6 Fed				Facility Typ		-3824			
Surface Ow	ner BLN	1		Mineral O	wner				API No	o. 30-015-	-41248
				LOCA	TIO	N OF REI	LEASE				11210
Unit Letter	Section	Township	Range			South Line	Feet from the	East/	West Line	County	
C	6	19S	31E		_					Eddy Coun	tv. NM
			Ι	_atitude <u>N 32.69</u>	558°	Longitu	de <u>W 103.9120</u>	3°			
				NATI	URE	OF RELI	EASE				
Type of Release	ase Oil					Volume of			Volume I	Recovered	6 bbls
packing to blo	Please Oil Release Over pressure on the stuffing box caused the blow out of the well head diate Notice Given?  Yes No Not Release No Wathy Purvis @ BBC International Inc. Proceedings of Problem and Remedial Action Taken.*  Are on the stuffing box caused the packing to blow out one packing was replaced.  Yes Affected and Cleanup Action Taken.*  If area is approximately 105' x 40' on location. Remedial Release Notes and Remedial Reme		Date and H 07/19/2015	our of Occurrence	е		Hour of Disc	overy			
3.00 - 10.000 (				25	uired	If YES, To Mike Bratch Amos-BLM	her and Heather F	atterso	n-NMOCD	, Shelly Tuck	ter and James
By Whom?	Kathy Purv	vis @ BBC In	ternationa	l Inc.		Date and H	our 07/20/2015				
Was a Watero	ourse Reacl		Yes 🛛	No		If YES, Vol	ume Impacting th	ne Wate	ercourse.		· · · · · · · · · · · · · · · · · · ·
Over pressure	on the stuff	ing box cause			the we	ell head and sp	oill 8 bbls of oil o	nto the	ground. A	vacuum truc	k recovered 6 bbls
Describe Area	Affected ar	nd Cleanup Ac	tion Take	en.*				_			
The affected ar BLM.	ea is appro	ximately 105'	x 40' on l	location. Remediat	tion wi	ll be complete	ed according to a	remedi	ation plan a	pproved by N	MOCD and the
public health of hould their op	r the environ erations have nent. In add	nment. The act of the failed to add to a do ad	report and sceptance equately in D accepta	s true and complete for file certain release of a C-141 report to a certain true and remanded of a C-141 report of a C-141 rep	ase not by the l	MOCD mar	perform correctived as "Final Report that pose a three	ve actio	ons for releases not relie	ve the operate	ay endanger or of liability
ignature:	2				-		OIL CONSI	ERVA	ATION I	DIVISION	
rinted Name:	CJ Summ	ers			Aı	proved by Er	vironmental Spe	cialist:			
itle: HES L	ead				Ar	proval Date:		Ex	epiration Da	ate:	
-mail Address	chancey	summers@o	xy.com Phone:	(422) (95 5924		nditions of A	pproval:			Attached [	3
tach Additio			. 110110. /	(432) 685-5824						<b></b>	

District I 1625 N. French Dr., Hobbs, NM 88240 District II 81 I 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

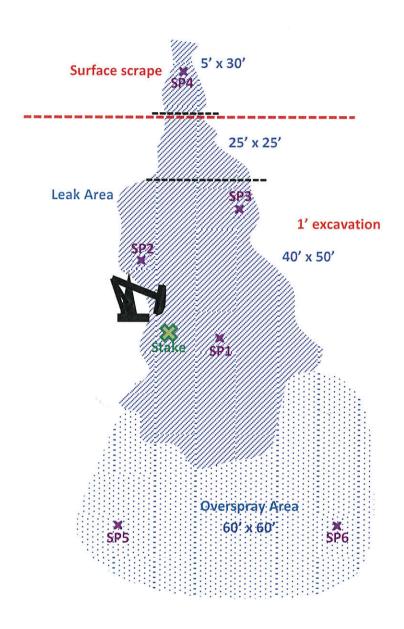
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

		was and the same of	- 9			OPERA	TOR		Init	ial Report	Final Rep
Name of C		Oxy Permia					Casey Summer	'S	THIC	au report	ZZ T mar Kep
Address		rive, Midlan				Telephone					
Facility Na	me Hac	kberry 6 Fed	Com #4	H		Facility Typ	oe Well				· · · · · · · · · · · · · · · · · · ·
Surface Ow	mer BLN	1	·	Mineral O	wner				API N	o. 30-015	-41248
				LOCA	TIO	N OF RE	FACE		1	0. 50 015	11240
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	Fast/V	West Line	County	
С	6	19S	31E						V COL EMIC	20 _ 30 <del>-</del> 0	
		175					- OD.			Eddy Coun	ty, NM
			1	Latitude N 32.69			de <u>W 103.912</u>	<u>03°</u>			
Type of Relea	ise Oil			NAT	URE	OF RELI					
Source of Rel		r pressure on	the stuffir	ng box caused the		Volume of					6 bbls
packing to blo	w out of th	e well head	me stutti	ig box caused the		07/19/2015	our of Occurren	ce	Date and	Hour of Disc	overy
Was Immedia	te Notice G					If YES, To	Whom?				
		$\boxtimes$	Yes 📙	No Not Rec	juired	Mike Brate Amos-BLM	her and Heather	Pattersor	1-NMOCD	, Shelly Tuck	er and James
By Whom?	Kathy Purv	vis @ BBC In	ternationa	l Inc.		Date and H		5 @ 4:06	pm		
Was a Waterc	ourse Reacl	ned?	Yes 🛛	No		If YES, Vo	lume Impacting	the Water	rcourse.		
If a Watercour	SO MAG Imp	noted Descrit									
it a 77 attreout	se was tilip	acted, Descri	e rully.™							300	
((2))											
	*										
Describe Caus	e of Probler	n and Remedi	ial Action	Taken.*	-						
Over pressure	on the stuff	ing box cause	d the pack	ing to blow out on	the w	ell head and st	oill 8 bbls of oil	onto the	oround A	Vacuum truc	k recovered 6 bbls
of oil and the p	acking was	replaced.				- [		omo mo j	ground. A	vacuum uuc.	k recovered 6 6618
Describe Area	Affected an	d Cleanup Ac	tion Take	n.*							
The affected ar	ea is annrox	imately 105'	v 40' on 1	agatian D							
NMOCD and the	ne BLM,	diffately 105	X 40 OH I	ocation. Remediat	tion wa	as completed i	n accordance wi	ith the rer	nediation [	plan approved	l by both
I hereby certify	that the inf	ormation give	n above i								
				or file certain rele							
should their ope	erations hav	e failed to ade	equately in	ivestigate and reme	ediate	contamination	that pose a thre	at to grou	ind water,	surface water	, human health
federal, state, or				nce of a C-141 rep	ort doe	es not relieve t	the operator of re	esponsibi	lity for cor	npliance with	any other
	1/						OIL CONS	ERVA	TION	DIVISION	
Signature:	12									21 1 101011	
Printed Name:	Casey Sur	nmers			A <sub>1</sub>	pproved by En	nvironmental Spe	ecialist:			
Title: NM En	vironmental	Advisor			Aı	proval Date:		Ext	piration Da	ate:	
E-mail Address:	casey su	ımmers@oxy	.com		Co	onditions of A	nnroval:				
Date: 2 - 2	23-16			/### LIP EDEC	7	Manuons of A	pprovat,			Attached	]
ttach Addition	al Sheets	o If Necessary	Phone:	(575) 513-8289							



### Oxy Hackberry 6 Fed Com #4H



Oxy, Hackberry 6 Federal Com #4H

 $\mbox{U/L}$  C , Section 6, T19S, R31E

Eddy County, NM

N 32.69558° W 103.91203°

API#30-015-41248

BBC Intern	ational, Inc.
0	жу
Hackberry 6	Fed Com #4H
Date: 07/28/2015	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2015



### **Groundwater Plot**

### Oxy Hackberry 6 Fed Com #4H

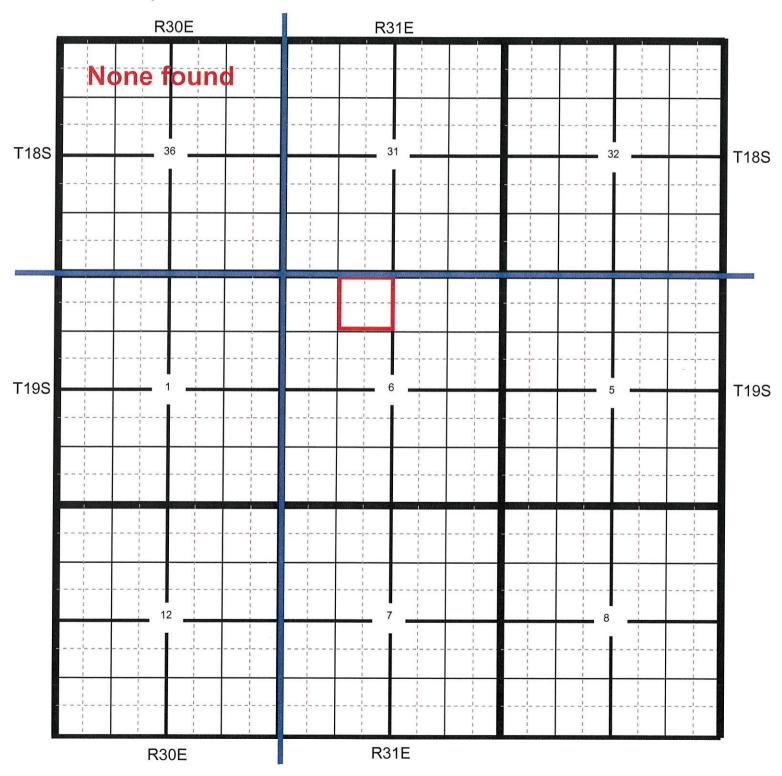
County Eddy

Unit Letter

Section

Township 19S Range 31E







### Section Quarters

### Oxy Hackberry 6 Fed Com #4H

County Eddy

Unit Letter С

Section 6

Township 19**S** 

Range 31Ĕ

Trend Map 150'-175'

1

2

NW/NW	NE/NW	NW/NE	NE/NE
None found			
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

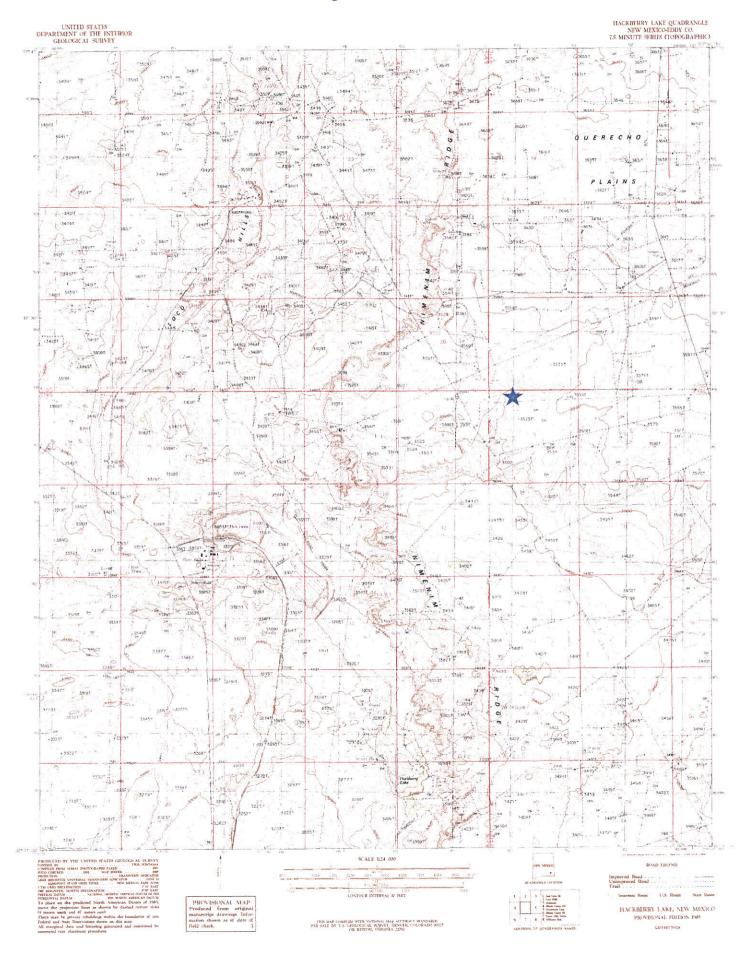
USGS

SEO

All Databases

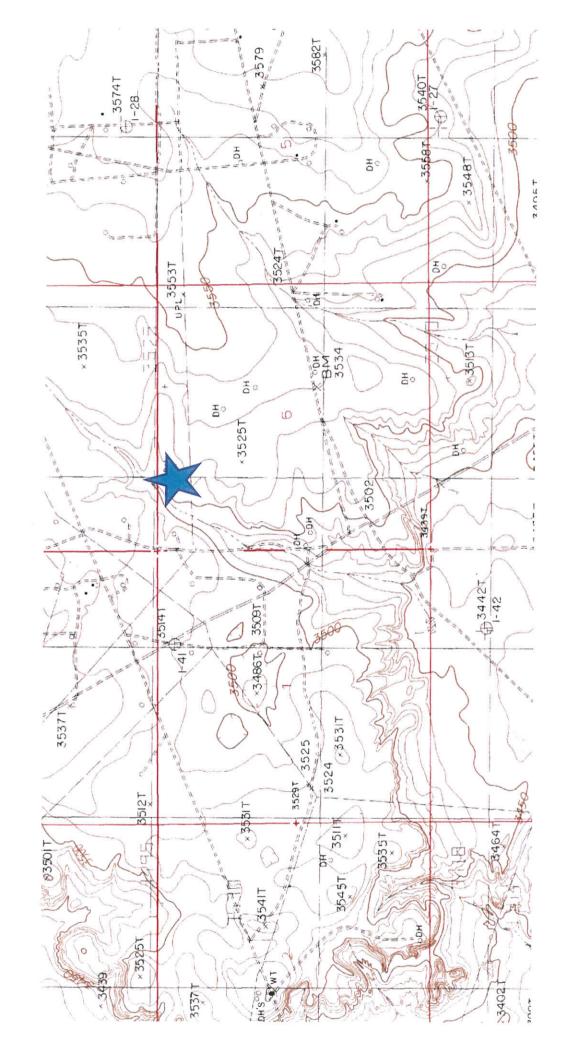
### Oxy

### Hackberry 6 Fed Com #4H



Oxy

# Hackberry 6 Fed Com #4H



### Laboratory Analytical Results Summary Hackberry 6 Fed Com #4H

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3.	SP1 @ 4
Analyte	Method	Date	7/28/15	7/28/15	7/28/15	7/28/15	7/29/15
			mg/Kg	mg/Kg	ma/Ka	ma/Ka	ma/Ka
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	e/u
Toluene	BTEX 8021B		0.061	<0.050	n/a	n/a	n/a
Ethylbenzene BTEX 8021B	BTEX 8021B		0.145	<0.050	n/a	n/a	n/a
<b>Total Xylenes</b>	otal Xylenes BTEX 8021B		0.458	<0.150	n/a	n/a	e/u
Total BTEX	BTEX 8021B		0.664	<0.300	n/a	n/a	<i>a/c</i>
Chloride	SM4500CI-B		14000	1710	1620	80	32
GRO	TPH 8015M		<100	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		27600	42.8	n/a	n/a	n/a

		Sample	SP2@	SD2 @ 1"	.co2 @ 2:	10 003	0000
		2	SURFACE	9)	312 @ 2	3F4 (# 3	3F2 @4
Analyte	Method	Date	7/29/15	7/29/15	7/29/15	7/29/15	7/29/15
			mg/Kg	mg/Kg	mg/Kg	ma/Ka	ma/Ka
Benzene	BTEX 8021B		<0.100	<0.050	n/a	n/a	6/0
Toluene	BTEX 8021B		2.62	<0.050	n/a	e/u	2 0
Ethylbenzene	Ethylbenzene BTEX 8021B		4.22	<0.050	n/a	e/u	7/0
Total Xylenes	otal Xylenes BTEX 8021B		7.55	<0.150	n/a	p/u	2 0
Total BTEX	BTEX 8021B		14.4	<0.300	n/a	e/u	2 0
Chloride	SM4500CI-B		20400	592	576	64	16
GRO	TPH 8015M		227	<10.0	n/a	n/a	6/0
DRO	TPH 8015M		36800	<10.0	n/a	n/a	200

		Sample	SURFACE	SP3 @ 1.	SP3 @ 2.	SP3 @ 3.
Analyte	Method	Date	7/29/15	7/29/15	7/29/15	7/29/15
			mg/Kg	mg/Kg	mg/Kg	mq/Kq
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		0.209	<0.050	n/a	n/a
Ethylbenzene BTEX 8021B	BTEX 8021B		0.978	<0.050	n/a	n/a
Total Xylenes	otal Xylenes BTEX 8021B		1.99	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		3.18	<0.300	n/a	n/a
Chloride	SM4500CI-B		7520	320	304	<16.0
GRO	TPH 8015M		122	<10.0	n/a	n/a
DRO	TPH 8015M		34500	713	n/a	n/a

		Sample	SP4@ SURFACE	SP4 @ 1'	SP4 @ 2"	SP4 @ 3.
Analyte	Method	Date	7/29/15	7/29/15	7/29/15	7/29/15
			mg/Kg	mg/Kg	mg/Kg	mq/Kq
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		0.099	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		0.665	<0.050	n/a	n/a
Total Xylenes BTEX 8021B	BTEX 8021B		1.36	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		2.13	<0.300	n/a	n/a
Chloride	SM4500CI-B		24400	160	224	48
GRO	TPH 8015M		102	<10.0	n/a	n/a
DRO	TPH 8015M		46100	<10.0	n/a	n/a

		Sample	SP5@ SURFACE	SP5@1"	SP5 @ 2"	SP5@3'	SP5 @ 4"	SP5 @ 5'	SP5@6
Analyte	Method	Date	7/29/15	7/29/15	7/29/15	7/29/15	7/29/15	7/29/15	7/29/15
			mg/Kg	ma/Ka	ma/Ka	ma/Kn	ma/Ka	-Mom	- Man
Benzene	BTEX 8021B		<0.050	<0.050	E/U	6/0	6/6	6V/6III	gy/gm
Toluene	BTEX 8021B		<0.050	<0.050	z /c	6/0	2/2	11/4	1/2
Ethylbenzene			<0.050	<0.050	p/c	2/2	0/0	11/4	מ/ם
Total Xvlenes			70 450	7 4 60	7	מו	- 2	<u>   </u>	n/a
2010	21 - 20 02 1 0		001.00	VO. 150	n/a	n/a	n/a	n/a	n/a
lotal BIEX	BTEX 8021B		<0.300	<0.300	n/a	e/u	n/a	n/a	e/u
Chloride	SM4500CI-B		29600	3800	736	576	224	192	256
GRO	TPH 8015M		<50.0	<10.0	n/a	e/u	6/0	5/0	2/2
DRO	TPH 8015M		3090	16.9	n/a	n/a	0/0	n/c	2/2
							5	3	3=

		Sample	SURFACE	SP6 @ 1'	SP6 @ 2'	SP6 @ 3.	SP6 @ 4"	SP6 @ 5'	.9 @ 9dS
Analyte	Method	Date	7/29/15	7/29/15	7/29/15	7/29/15	7/29/15	7/29/15	7/20/15
			ma/Ka	ma/ka	שמועט	malle	-///		210711
			66	6,1,6,1,	SVI SVI	BUBIL	6V/Sill	mg/kg	mg/Kg
penzene	B1EX 8021B		<0.050	<0.050	n/a	n/a	n/a	e/u	6/0
Toluene	BTEX 8021B		<0.050	<0.050	e/u	r/a	6/0	0/0	0/0
Ethylhonzono	DTEV OCCAR		010	010		5	521	11/2	11/4
rui yibelizelle	DIEA OUZIB		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	otal Xylenes BTEX 8021B		<0.150	<0.150	e/u	6/0	6/4	6/0	0,0
Total RTEX	BTEY 8021B		0000	000	,	5	5	3	מוו
VIII I	D LA 002 ID		V0.300	<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		28000	3400	704	704	320	224	208
GRO	TPH 8015M		<50.0	<10.0	0/0	0/0	2/0		207
000			0.00	0.0	וומ	1/0	2	מ/ם	n/a
DRO	TPH 8015M		2430	19.4	n/a	n/a	n/a	n/a	n/a
									5



August 06, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: HACKBERRY 6 FED COM #4H

Enclosed are the results of analyses for samples received by the laboratory on 07/30/15 11:50.

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

Accreditation applies to public drinking water matrices.

Celey & Keine

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: Reported: 07/30/2015

08/06/2015

Project Name: Project Number: HACKBERRY 6 FED COM #4H

Project Location:

NONE GIVEN

EDDY COUNTY, NM

Sampling Date:

Sampling Type:

07/28/2015

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

### Sample ID: SP1 @ SURFACE (H501981-01)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2015	ND	1.98	99.2	2.00	3.64	
Toluene*	0.061	0.050	07/31/2015	ND	2.02	101	2.00	4.60	
Ethylbenzene*	0.145	0.050	07/31/2015	ND	2.17	108	2.00	5.97	
Total Xylenes*	0.458	0.150	07/31/2015	ND	5.68	94.7	6.00	6.65	
Total BTEX	0.664	0.300	07/31/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	124 9	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	08/04/2015	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	07/31/2015	ND	209	105	200	1.89	
DRO >C10-C28	27600	100	07/31/2015	ND	188	94.1	200	1.68	
Surrogate: 1-Chlorooctane	105 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	1090	% 52.1-170	5						

### 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.

Celen Theene.



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

Fax To:

(575) 397-0397

Received:

07/30/2015

Sampling Date:

07/28/2015

Reported:

08/06/2015

Sampling Type:

Soil

Project Name:

HACKBERRY 6 FED COM #4H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: SP1 @ 1' (H501981-02)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2015	ND	1.98	99.2	2.00	3.64	
Toluene*	< 0.050	0.050	07/31/2015	ND	2.02	101	2.00	4.60	
Ethylbenzene*	<0.050	0.050	07/31/2015	ND	2.17	108	2.00	5.97	
Total Xylenes*	<0.150	0.150	07/31/2015	ND	5.68	94.7	6.00	6.65	
Total BTEX	<0.300	0.300	07/31/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118 %	6 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	08/04/2015	ND	432	108	400	3.64	
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	07/31/2015	ND	202	101	200	3.18	
DRO >C10-C28	42.8	10.0	07/31/2015	ND	182	91.0	200	4.59	
Surrogate: 1-Chlorooctane	100 %	6 47.2-15	7				2		
Surrogate: 1-Chlorooctadecane	125 %	52.1-176	5						

### Sample ID: SP1 @ 2' (H501981-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	08/04/2015	ND	432	108	400	3.64	

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(575) 397-0397

Received:

07/30/2015

Sampling Date:

07/28/2015

Reported:

Sampling Type:

Soil

Project Name:

08/06/2015

Cool & Intact

HACKBERRY 6 FED COM #4H NONE GIVEN

Sampling Condition:

Project Number: Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

### Sample ID: SP1 @ 3' (H501981-04)

		7- 11 1- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Chloride.	SM4500CI-B	

mg/kg

Analyzed By: AP

Analyte

Result

Reporting Limit

Analyzed

Method Blank

BS % Recovery True Value QC

RPD

3.64

3.64

Oualifier

Chloride

Chloride

80.0

Result

32.0

16.0

08/04/2015

ND

108

400

Sample ID: SP1 @ 4' (H501981-05)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Reporting Limit 16.0

Analyzed 08/04/2015 Method Blank ND

BS 432

432

% Recovery 108

True Value QC 400

RPD

Qualifier

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Celey D. Keene, Lab Director/Quality Manager



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07/30/2015

Sampling Date:

07/29/2015

Reported:

Sampling Type:

Soil

08/06/2015

Cool & Intact

Project Name:

HACKBERRY 6 FED COM #4H

Sampling Condition:

Project Number: Project Location: NONE GIVEN EDDY COUNTY, NM

Sample Received By:

Jodi Henson

### Sample ID: SP2 @ SURFACE (H501981-06)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/31/2015	ND	1.98	99.2	2.00	3.64	
Toluene*	2.62	0.100	07/31/2015	ND	2.02	101	2.00	4.60	
Ethylbenzene*	4.22	0.100	07/31/2015	ND	2.17	108	2.00	5.97	
Total Xylenes*	7.55	0.300	07/31/2015	ND	5.68	94.7	6.00	6.65	
Total BTEX	14.4	0.600	07/31/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1249	6 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20400	16.0	08/04/2015	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	227	100	07/31/2015	ND	202	101	200	3.18	
DRO >C10-C28	36800	100	07/31/2015	ND	182	91.0	200	4.59	
Surrogate: 1-Chlorooctane	138 %	6 47.2-15	7	31-31					annullo sociali
Surrogate: 1-Chlorooctadecane	1620 9	52.1-170	5						

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07/29/2015

Reported:

08/06/2015

Sampling Type:

Soil

Project Name:

HACKBERRY 6 FED COM #4H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: SP2 @ 1' (H501981-07)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2015	ND	1.98	99.2	2.00	3.64	
Toluene*	< 0.050	0.050	07/31/2015	ND	2.02	101	2.00	4.60	
Ethylbenzene*	<0.050	0.050	07/31/2015	ND	2.17	108	2.00	5.97	
Total Xylenes*	< 0.150	0.150	07/31/2015	ND	5.68	94.7	6.00	6.65	
Total BTEX	<0.300	0.300	07/31/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	117 %	6 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	08/04/2015	ND	432	108	400	3.64	
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	07/31/2015	ND	202	101	200	3.18	
DRO >C10-C28	<10.0	10.0	07/31/2015	ND	182	91.0	200	4.59	
Surrogate: 1-Chlorooctane	102 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	123 %	52.1-170	5						

### Sample ID: SP2 @ 2' (H501981-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	08/05/2015	ND	432	108	400	3.77	

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07/30/2015

Sampling Date:

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Reported:

Sampling Type:

08/06/2015

Soil

Project Name:

HACKBERRY 6 FED COM #4H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: SP2 @ 3' (H501981-09)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result 64.0

Reporting Limit

16.0

Analyzed

Method Blank

BS % Recovery True Value QC

Qualifier

RPD

3.77

3.77

Chloride

Chloride

16.0

08/05/2015

ND

400

Sample ID: SP2 @ 4' (H501981-10)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit 16.0

Analyzed 08/05/2015 Method Blank ND

BS 432

432

% Recovery 108

108

True Value QC 400

RPD Qualifier

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Celey D. Keene, Lab Director/Quality Manager



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Fax To:

(575) 397-0397

Received:

07/30/2015

Sampling Date:

07/29/2015

Reported:

PTEV 0031P

08/06/2015

Sampling Type:

Soil

Project Name:

HACKBERRY 6 FED COM #4H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

### Sample ID: SP3 @ SURFACE (H501981-11)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	08/01/2015	ND	1.98	99.2	2.00	3.64	
Toluene*	0.209	0.050	08/01/2015	ND	2.02	101	2.00	4.60	
Ethylbenzene*	0.978	0.050	08/01/2015	ND	2.17	108	2.00	5.97	
Total Xylenes*	1.99	0.150	08/01/2015	ND	5.68	94.7	6.00	6.65	
Total BTEX	3.18	0.300	08/01/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	117 9	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7520	16.0	08/05/2015	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	122	100	07/31/2015	ND	202	101	200	3.18	
DRO >C10-C28	34500	100	07/31/2015	ND	182	91.0	200	4.59	
Surrogate: 1-Chlorooctane	148 %	6 47.2-15	7				<del></del>		

Surrogate: 1-Chlorooctadecane

1420 %

52.1-176

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Received:

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Sampling Date:

07/29/2015

Reported:

Soil

08/06/2015

Sampling Type:

Project Name:

HACKBERRY 6 FED COM #4H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: SP3 @ 1' (H501981-12)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2015	ND	1.92	96.2	2.00	0.311	
Toluene*	< 0.050	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
Ethylbenzene*	<0.050	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
Total Xylenes*	< 0.150	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
Total BTEX	<0.300	0.300	08/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/05/2015	ND	432	108	400	3.77	
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	07/31/2015	ND	202	101	200	3.18	
DRO >C10-C28	713	10.0	07/31/2015	ND	182	91.0	200	4.59	
Surrogate: 1-Chlorooctane	112 9	6 47.2-15	7						
Summagata: 1 Chlavo astada agua	1.12.0	V 52 1 17							

Surrogate: 1-Chlorooctadecane

142 %

52.1-176

### Sample ID: SP3 @ 2' (H501981-13)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	304	16.0	08/05/2015	ND	432	108	400	3.77			

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Received:

07/30/2015

Chloride, SM4500CI-B

Sampling Date:

07/29/2015

Reported:

08/06/2015

Sampling Type:

Soil

Project Name:

HACKBERRY 6 FED COM #4H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

mg/kg

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

### Sample ID: SP3 @ 3' (H501981-14)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/05/2015	ND	432	108	400	3.77	
Sample ID: SP4 @ SURFACE (H BTEX 8021B		100 mm - 100		1 B - WG					
BIEX 8021B	mg,	кд	Anaiyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	08/04/2015	ND	1.92	96.2	2.00	0.311	
Toluene*	0.099	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
Ethylbenzene*	0.665	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
Total Xylenes*	1.36	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
Total BTEX	2.13	0.300	08/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	132 5	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24400	16.0	08/05/2015	ND	432	108	400	3.77	
PH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	102	100	07/31/2015	ND	202	101	200	3.18	
DRO >C10-C28	46100	100	07/31/2015	ND	182	91.0	200	4.59	
Surrogate: 1-Chlorooctane	141 %	6 47.2-157	7				9		
Surrogate: 1-Chlorooctadecane	1990	% 52.1-170							

Analyzed By: AP

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Received:

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Sampling Date:

07/29/2015

Reported:

08/06/2015

Sampling Type:

Soil

Project Name:

HACKBERRY 6 FED COM #4H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

### Sample ID: SP4 @ 1' (H501981-16)

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	08/04/2015	ND	1.92	96.2	2.00	0.311	
Toluene*	<0.050	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
Ethylbenzene*	<0.050	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
Total Xylenes*	<0.150	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
Total BTEX	<0.300	0.300	08/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 %	6 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/05/2015	ND	432	108	400	3.77	
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	07/31/2015	ND	202	101	200	3.18	
DRO >C10-C28	<10.0	10.0	07/31/2015	ND	182	91.0	200	4.59	
Surrogate: 1-Chlorooctane	102 %	6 47.2-152	7	11 11					
Surrogate: 1-Chlorooctadecane	103 %	52.1-170	5						

### Sample ID: SP4 @ 2' (H501981-17)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/05/2015	ND	432	108	400	3.77	

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Fax To:

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Analyzed By: AP

Received:

07/30/2015

Sampling Date:

07/29/2015

Reported:

Chloride, SM4500CI-B

Sampling Type:

08/06/2015

Soil

Project Name:

HACKBERRY 6 FED COM #4H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

mg/kg

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

### Sample ID: SP4 @ 3' (H501981-18)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/05/2015	ND	432	108	400	3.77	
Sample ID: SP5 @ SURFACE (H BTEX 8021B	501981- mg	100.00	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2015	ND	1.92	96.2	2.00	0.311	
Toluene*	<0.050	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
Ethylbenzene*	<0.050	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
Total Xylenes*	<0.150	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
Total BTEX	<0.300	0.300	08/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	29600	16.0	08/05/2015	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/31/2015	ND	202	101	200	3.18	
DRO >C10-C28	3090	50.0	07/31/2015	ND	182	91.0	200	4.59	
Surrogate: 1-Chlorooctane	104 9	6 47.2-152	7						
Surrogate: 1-Chlorooctadecane	215 %	6 52.1-170	5						

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\*=Accredited Analyte

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

Fax To:

(575) 397-0397

Received:

07/30/2015

Sampling Date:

07/29/2015

Reported:

08/06/2015

Sampling Type:

Soil

Project Name:

HACKBERRY 6 FED COM #4H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: SP5 @ 1' (H501981-20)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2015	ND	1.92	96.2	2.00	0.311	
Toluene*	<0.050	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
Ethylbenzene*	<0.050	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
Total Xylenes*	<0.150	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
Total BTEX	<0.300	0.300	08/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	6 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	08/05/2015	ND	432	108	400	3.77	
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	07/31/2015	ND	202	101	200	3.18	
DRO >C10-C28	16.9	10.0	07/31/2015	ND	182	91.0	200	4.59	
Surrogate: 1-Chlorooctane	104 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	111 %	52.1-17	6						

Sample ID: SP5 @ 2' (H501981-21)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	08/05/2015	ND	432	108	400	3.77	

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Celleg to Keene

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:

07/30/2015

Sampling Date:

07/29/2015

Reported:

08/06/2015

Sampling Type:

Soil

Project Name:

HACKBERRY 6 FED COM #4H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: SP5 @ 3' (H501981-22)

	Chloride,	SM4500C	-B
--	-----------	---------	----

mg,	/kg	

### Analyzed By: AP

	9.	9	radiyae						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	08/05/2015	ND	432	108	400	3.77	

### Sample ID: SP5 @ 4' (H501981-23)

Chloride, SM4500CI-B		ng/kg Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/05/2015	ND	432	108	400	3.77	

### Sample ID: SP5 @ 5' (H501981-24)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/05/2015	ND	432	108	400	3.77	

### Sample ID: SP5 @ 6' (H501981-25)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP		w			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/05/2015	ND	432	108	400	3.77	

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

Fax To:

(575) 397-0397

Received:

07/30/2015

Sampling Date:

07/29/2015

Reported:

Sampling Type:

Soil

08/06/2015

Project Name:

HACKBERRY 6 FED COM #4H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

### Sample ID: SP6 @ SURFACE (H501981-26)

BTEX 8021B	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2015	ND	1.92	96.2	2.00	0.311	
Toluene*	<0.050	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
Ethylbenzene*	<0.050	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
Total Xylenes*	<0.150	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
Total BTEX	<0.300	0.300	08/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	6 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28000	16.0	08/05/2015	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS			va.v.		S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/31/2015	ND	202	101	200	3.18	
DRO >C10-C28	2430	50.0	07/31/2015	ND	182	91.0	200	4.59	
Surrogate: 1-Chlorooctane	94.69	6 47.2-15	7			HW-			
Surrogate: 1-Chlorooctadecane	180 %	6 52.1-17	6						

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Celeg Litreens -



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

Fax To:

(575) 397-0397

Received:

07/30/2015

Sampling Date:

07/29/2015

Reported:

08/06/2015

Sampling Type:

Soil

Project Name:

HACKBERRY 6 FED COM #4H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: SP6 @ 1' (H501981-27)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	08/04/2015	ND	1.92	96.2	2.00	0.311	
Toluene*	< 0.050	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
Ethylbenzene*	<0.050	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
Total Xylenes*	<0.150	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
Total BTEX	<0.300	0.300	08/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	6 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	08/05/2015	ND	432	108	400	3.77	
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	07/31/2015	ND	202	101	200	3.18	
DRO >C10-C28	19.4	10.0	07/31/2015	ND	182	91.0	200	4.59	
Surrogate: 1-Chlorooctane	99.4 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	106%	52.1-176	5						

### Sample ID: SP6 @ 2' (H501981-28)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/03/2015	ND	400	100	400	3.92	

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

Fax To:

(575) 397-0397

Received:

07/30/2015

Sampling Date:

07/29/2015

Reported:

Sampling Type:

08/06/2015

BS

400

BS

400

BS

400

400

Soil

Project Name:

HACKBERRY 6 FED COM #4H

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sample ID: SP6 @ 3' (H501981-29)

Analyzed By: AP

Chloride, SM4500CI-B Analyte

mg/kg

Reporting Limit Analyzed Method Blank ND

% Recovery

True Value OC

Oualifier

Chloride

Chloride

Chloride

Chloride

Result 704

Result

320

Result

224

Result

208

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

08/03/2015

Analyzed

08/03/2015

Analyzed

08/03/2015

100

400

Sample ID: SP6 @ 4' (H501981-30)

Chloride, SM4500CI-B

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AP

Method Blank

ND

ND

% Recovery

100

True Value QC

400

RPD

3.92

RPD

3.92

3.92

Qualifier

Sample ID: SP6 @ 5' (H501981-31)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Method Blank

% Recovery

100

100

True Value QC

400

RPD

Qualifier

Sample ID: SP6 @ 6' (H501981-32)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

08/03/2015

Method Blank ND

BS % Recovery True Value QC 400

RPD

3.92

Qualifier

Cardinal Laboratories

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Celien treens -

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

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

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.

Celeg to treens -

CONTRACTOR DESCRIPTION OF THE PERSON OF THE			X	D
	(505) 393-2326	101 East Marla	ARDINAL LA	
	(505) 393-2326 FAX (505) 393-2476	101 East Marland, Hobbs, NM 88240	ARDINAL LABORATORIES	

(505) 393-2326 FAX (505) 393-2476	(505) 393-2476		TSEINGE BEOMEST
(000) 000			ANALYSIS KEWOEST
Company Name: BBC International, Inc.	I, Inc.	0000	
Project Manager: Cliff Brunson		P.O. #:	
Address: P.O. Box 805		Company:	
City Hobbs	State: NM Zip: 88241	Attn:	
	ESE 207 0307	Address.	
Phone #: 575-397-6388	Fax #: 5/5-35/-035/	projections interest of the control	
Project #:	Project Owner: Oxy	City:	

The same of the sa								7	
Company Name: BE	BBC International, Inc.	The control of the co	BILL I	O B COLOR COLOR COLOR	-				
Project Manager: Cl	Cliff Brunson	P.O. #:	#						
Address: P.O. Box 805		White the second	Company:						
city: Hobbs	State: NM	+3	7:	ALL THE PARTY AND ADDRESS OF THE PARTY AND ADD					
Phone #: 575-397-6388	Fax #:	0397	Address:	And the second s					
Project #:	Project Owner: Oxy	Dxy City:	y:						
Project Name: Hack	Project Name: Hackberry 6 Fed Com #4H	State:	ite: Zip:						
Project Location: E	Eddy County, NM	Ph	Phone #:	The state of the s					
- 1	Price Brunson	Fax #:							
		MATRIX	PRESERV. SAI	SAMPLING					
Lab I.D.	Sample I.D.	RAB OR (C)OMICONTAINERS ROUNDWATER ASTEWATER DIL L UDGE THER:	CID/BASE: E / COOL THER :		BTEX	TPH			
1 SP	SP1 @ SURFACE	- # O S S S S S S S S S S S S S S S S S S	7.		<u> </u>				
-		€ = <	7/28/15		< <	<			
-		<u>ে</u>	7/28/15	/15 12:50 PM	<				
	opperate Country in Transport of Management and Transport of Transport	<b>の</b> 二	7/28/15		٠, <		And the state of t		
S SP		6 - 4	7/29/15		, <				
	URFACE	6	7/29/15					VI. 10 (10) (10) (10) (10) (10) (10) (10) (	
	SP2 @ 1'	6 1 4	1/29/15		\ <				
SF SF	SP2 @ 2'	6 1 4	1/2	U	. <	and the state of t			
	SP2 @ 3'	6 - 4	V //29/15		. <			The second second	
5-	SP2 @ 4'	61 1	7/29/15	/15 11:00 AM	<	-		-	
PLEASE NOTE: Liability and Da analyses. All claims including the	TEASE NOTE: Lability and Danages. Cardinat's liability and client's exclusive remedy for any datin arising whether based in contract or tort, shall be limited to the amount pad by the client for the periodic process. At claims including those for negligence and any other cause whatoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. At claims including those for negligence and any other cause whatoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. At claims including those for negligence and any other cause whatoever shall be deemed and the contract of the process of the contract of the applicable analyses.	y claim arising whether based in contract or elemed waived unless made in writing and re without smitation, business interruptions, los	tort, shall be limited to the ar- ceived by Cardinal within 30 s of use, or loss of profits inc	hall be limited to the amount paid by the client for the by Cardinal within 30 days after completion of the day Cardinal within 30 days after completion of the day client, its subsidiar use, or loss of profits incurred by client, its subsidiary use, or loss of the beautiful than the complete of the co	r the he applicable aries, se,				
Relinguished By:	y: Date: // Date:	Received By:		Phone Result: Fax Result:	sult:	Yes No	Add'l Phone #: Add'l Fax #:		
1	Time: 20	711/24 JA	The Notes	KEMAKKU	Ċ.				

 $\dagger$  Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Cool Intact

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

Time:

Page 19 of 22

(505) 393-2326 FAX (505) 393-2476	101 East Marland, Hobbs, NM 88	ARDINAL LABORATORIE	T)
93-2476	IM 88240	RIES	

	(505) 393-2326 FAX (505) 393-24/0		None e	200000000000000000000000000000000000000		ANALYSIS REQUEST	
Company Name:	BBC International, Inc.		BILL TO	SHERRE	-		
Project Manager:	Cliff Brunson	P.O. #:					
Address: P.O. Box 805	Box 805	Company:	any:	AND THE RESIDENCE OF THE PARTY			
city: Hobbs	State: NM	Zip: 88241 Attn:					
Phone #: 575-397-6388	Fax #:	575-397-0397 Address	SS:				
Project #:	Project Owner: Oxy	Оху сіту:					
Project Name: H	Project Name: Hackberry 6 Fed Com #4H	State:	Zip:				
Project Location:	Eddy County, NM	Phone #	e #:				
Sampler Name:	Price Brunson	Fax #:					
FOR LAB LISE ONLY		MATRIX PR	PRESERV. SAMPLING				
Lab I.D.	Sample I.D.	S)RAB OR (C)OMP. CONTAINERS ROUNDWATER //ASTEWATER OIL LUDGE DTHER: CID/BASE:	DATE	Cl	TPH		
10 1 01	SP3 @ SURFACE	-   <	7/29/15	11:05 AM 🗸	` ` ` `		
3:			7/29/15 11	11:15 AM 🗸	<b>V V</b>		
Į i	Andread Control of the Control of th	6	7/29/15 11	11:20 AM 🗸			
12		@ - -	7/29/15 11	11:30 AM 🗸			
ĵ.	SP4 @ SURFACE	<u>。</u>		11:50 AM 🗸	, ,	Application of the control of the co	
<u>.</u>	SP4 @ 1'	611		1:10 PM V	4		
-	SP4 @ 2'	6 1 4		1:20:PM V			
2	SP4 @ 3'	6 - 4	U	1:40 PM <b>V</b>			
51	SP5 @ SURFACE	-		1:50 PM			
20	SP5 @ 1'	61	V //29/13 2	by the client for the			
PLEASE NOTE: Liability analyses. All claims inclu- service. In no event shall	PLEASE NOTE: Liability and Damages. Contributis liability and client's exclusive remoty for any claim arising whether based in contribut or lots, bear earnised on the applicable analyses. All claims including those for negigence and any other course whatesower shall be deemed where when the investment received by Cudenta within 30 days after competition of the applicable searce in no event shall Cardinal be claim to consequential claimages, including without limitation, butiness interruptions, loss of use, or loss of profits nourind by client, its subsidiaries.	y claim arising whether based in contract or ror, is eerned walved unless made in writing and receive without limitation, business interruptions, loss of un without limitation.	snak the attention of the above stated reason upon any of the above stated reason upon any of the above stated reason	ompletion of the applicat nt, its subsidiaries.	ble		
Relipquished By	sing out of or related to the performance of services hereunder by C  By:  Date: / 20 / C	Received By:		Phone Result: Fax Result:	☐ Yes ☐ No	Add'l Phone #: Add'l Fax #:	
Ò	Time:	<b>\</b> .	Alle NOON	REMARKS:			
1	1100	Paron De					

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

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

Relinquished By:

Time:

Page 20 of 22

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

	(505) 393-2320 FAX (505) 393-2410		SEC GGC STREET	う結びは京が高級のは			40	ANALYSIS REQUEST	EST	
Company Name:	BBC International, Inc.		BILL	Secretary and the second	-	1	  -  :			
Project Manager:	Cliff Brunson	P.O.	0. #:							
Address: P.O.	P.O. Box 805	Co	Company:							
City: Hobbs	State: NM	Zip: 88241 At	Attn:							
Phone #: 575-397-6388	Fax #:	575-397-0397 A	Address:							
Project #:	Project Owner: Oxy		City:	Make A A A CONTRACTOR OF THE CONTRACTOR OF THE PROPERTY OF THE						
Project Name:	Project Name: Hackberry 6 Fed Com #4H		State: Zip:							
Project Location:	Eddy County, NM	P	Phone #:	The second secon						
Sampler Name:	Price Brunson	L	1							
FOR LAB USE ONLY		MATRIX	PRESERV	SAMPLING						
Lab I.D.	Sample I.D.	CONTAINERS ROUNDWATER VASTEWATER OIL IL LUDGE THER:	CID/BASE: CE / COOL THER :	DATE	Cl	BTEX	1717			
Id Pro	SP5 @ 2'		(	9/15 2:10 PM	<				Topographics - Assessment of the second of t	
10	9	6 -	7/29	7/29/15 2:15 PM	<			\$44.0 Market 1977 - 197		
200	SP5 @ 4'	6	V 7/29	7/29/15 2:30 PM	<			and the second s		
	SP5 @ 5'	ত -	7 7/2	7/29/15 2:45 PM	<					
20	SP5 @ 6'	の へ	7/2	7/29/15 3:00 PM	<					
2/2	SP6 @ SURFACE	6 - 1	7/2	7/29/15 3:05 PM	<	, ,				
200	9 (	ক - - -	7/2	7/29/15 3:10 PM	. <	<				
200	(9)	<u>の</u> ・・	7 7/2	U			The state of the s			-
かん	SP6 @ 3'	6	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	//29/15 3.20 PM	. <	1				
3	SP6 @ 4'	611	or fort shall be limited to the	the amount paid by the client of	or the	-	-			
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Sample Condition
Cool Intact
Yes Yes
No No

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST HOLD

(505) 393	(505) 393-2326 FAX (505) 393-2476		ANALYSIS REQUEST	
Company Name: BBC I	BBC International, Inc.	BILL TO	ANALISIS REGOEST	$\perp$
	runson	P.O. #:		
Address: P.O. Box 805		Company:		
	State: NM Zip: 88241	Attn:	Contract and Property Contract	
Phone #: 575-397-6388	-	Address:	HARDON COLUMN TO THE PARTY OF T	
Project #:		City:		
Project Name: Hackberry 6 Fed Com #4H	y 6 Fed Com #4H	State: Zip:		
Project Location: Eddy	Eddy County, NM	Phone #:		
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2 SP6 @ 5	611	7/29/15	3:30 PM /	
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Delivered By: (Circle One)		Sample Condition CHECKED BY:		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-24 f Yes A Yes

484

Sampler - UPS - Bus - Other:

### **Kathy Purvis**

From:

Cliff Brunson <cbrunson@bbcinternational.com>

Sent:

Saturday, September 26, 2015 2:08 PM

To:

Mike Bratcher; Shelly Tucker

Cc:

Heather Patterson; Dusty Wilson; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject:

OXY - Hackberry 6 Fed Com #4H - Remediation Plan

Attachments:

Remediation Packet, Hackberry 6 Fed Com #4H.pdf

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the Oxy Hackberry 6 Fed Com #4H. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

Shelly,

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

If both of you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (6751) 297, 6289

Phone: (575) 397-6388 Fax: (575) 397-0397

E-Mail: <a href="mailto:cbrunson@bbcinternational.com">cbrunson@bbcinternational.com</a>

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