Closure Report

Closure approved 04/10/2023 Jocelyn Harimon Environmental Specialist

Site Description						
Site Name:	Plains Knight #1 Tank Battery					
Company:	Oxy Permian Ltd.					
Legal Description:	U/L L, Section 23, T24S, R37E					
County:	Lea County, NM					
GPS Coordinates:	N 32.19978° W 103.13753°					

Release Data

Date of Release:	12/19/16
Type of Release:	Produced water
Source of Release:	Pump toggle switch failure caused tank spill
Volume of Release:	15 bbls
Volume Recovered:	10 bbls

Remediation Specifications							
Remediation Parameters:	Excavate the areas around SP1 & SP2 to a depth of 1.5 ft. Obtain 3 bottom & 5 sidewall samples. Excavate the area around SP3 to a depth of 2 ft. Obtain 1 bottom & 3 sidewall samples. Excavate the overspray area at SP4 to a depth of 6 in. Backfill the site with clean soil.						
Remediation Activities:	12/08/2017 to 1	2/12/2017					
Plan Sent to OCD:	07/08/2017	Email from Cliff Brunson to Olivia Yu					
OCD Approval of Plan:	08/02/2017	Email from Olivia Yu to Cliff Brunson					
Plan Sent to BLM:	n/a	n/a					
BLM Approval of Plan:	n/a	n/a					

Supporting Documentation						
Initial C-141	Signed 01/09/2017					
Final C-141	Upon completion					
Site Diagram	December 2016					
Groundwater Plot	50'-75'					
TOPO Maps	December 2016					
Lab Summary	01/19/2017, 03/06/2017, 12/12/2017					
Lab Analysis	01/19/2017, 03/06/2017, 12/12/2017					
Correspondence	Request and approval of remediation plan via email					

Request for Closure

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

Wade Dittrich, Oxy Permian Ltd.

01/02/2018

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

Form C-141 Revised August 8, 2011

Oil Conservation Division

Submit 1 Copy to appropriate District Office in accordance with 19,15,29 NMAC

District IV 1220 S. St. Fran	cis Dr., Sant	a Fe, NM 8750	5			St. France, NM 875		ac		u 17.15.27 (4	INAC.
			Rel	ease Notifi	catior	and Co	orrective A	ction			
						OPERA'			l Report	Final	Report
Name of Co		Oxy Permia			1		Casey Summers				
the second se		294; Houstor				Telephone l		-8289			
Facility Nat	ne Plair	ns Knight #1	Tank Ba	ttery		Facility Typ	be Battery				
Surface Ow	ner			Mineral C	Owner			API No	. 30-025-1	1207	
				LOCA	ATIO	N OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the	_	South Line	Feet from the	East/West Line	County		
L	23	24S	37E						Lea County.	, NM	
				Latitude <u>N 32.1</u>	9978°	Longitu	de W 103.1375	30			
						OF REL					
Type of Rele	ase Produ	uced water		11/1.1	UKE		Release 15 bbls	Volume R	ecovered 1	0 bbls	
Source of Re	lease Tar	nk spilled due	to failure	of a pump toggle	switch		lour of Occurrenc	e Date and I	Hour of Disco	overy	
Was Immedia	ate Notice C	Given?				12/19/2010 If YES, To					
		\boxtimes	Yes 🗌	No 🗌 Not R	equired						
		BC Internatio	nal, Inc.			Date and Hour 12/21/2016 @ 10:38 am					
Was a Water	course Read		Yes 🗵	No		If YES, Volume Impacting the Watercourse.					
If a Watercou	irse was Im	pacted, Descr									
		parrent preser	iou i ung								
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.*							
					f produc	ed water insi	de the firewall on	location. A vacuu	m truck recov	ered 10 bbls	of
produced wa	ter and the s	switch was ret	urned to s	ervice.							
Describe Are	a Affected	and Cleanup /	Action Tal	ken.*							
The offected	aran ic anne	ovimataly 70	' * 7 0' on	location inside th	a firawal	Damadiati	on will be comple	ted in accordance v	uith a mlan an	mession has	
NMOCD.	area is appi	Oximately 70	X 20 UI	location inside un	e mewa	i. Kemeulau	on win be comple	act in accordance v	with a pian ap	proved by	
								nderstand that purs			
								tive actions for rele eport" does not relie			
should their o	perations h	ave failed to a	adequately	investigate and r	remediate	e contaminati	ion that pose a thre	at to ground water	, surface wate	er, human he	alth
or the environ	nment. In a	ddition, NMC ws and/or regu	CD acceptions	stance of a C-141	report d	oes not reliev	e the operator of r	esponsibility for co	mpliance wit	h any other	
reactar, state,		walandron rege	nations.		T		OIL CONS	SERVATION	DIVISIO	<u>ــــــ</u>	
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Signature:	$-l^{\sim}$					Annrouad bu	Environmental S	angialist			
Printed Name	e: Casey	Summers					Environmental S				
Title: NM	<u>Enviro</u> nme	ntal Advisor				Approval Da	te:	Expiration I	Date:		
E-mail Addre	es: Casa	v_Summers@	oxy com			Conditions o				1118-1043	50 S. S. S. S. S.
L-mail Audit			<u>oxy.com</u>			Conditions 0	ւ ահիւուտ։		Attached		
Date:	<u> - ~[-</u>]	1 IC NT	Phone	(575) 513-82	289						
Attach Addi	uonal Shee	ets II Necess	ary								



Oxy, Plains Knight #1 Tank Battery

Sample points, hand auger SP1, N 32.19981 W-103.13771 SP2, N 32.19978 W-103.13759 SP3, N 32.19981 W-103.13749 SP4, N 32.19981 W-103.13740

NORTH, N 32.19986 W-103.13760 SOUTH, N 32.19977 W-103.13757 EAST, N 32.19982 W-103.13734 WEST, N 32.19981 W-103.13773

Confirmation sample points, hand auger B1, N 32.19982 W-103.13771 B2, N 32.19978 W-103.13758 B3, N 32.19978 W-103.13758 B4, N 32.19979 W-103.13750 SW1, N 32.19979 W-103.13754 SW2, N 32.19977 W-103.13761 SW3, N 32.19979 W-103.13772 SW4, N 32.19982 W-103.13770 SW5, N 32.19984 W-103.13770 SW5, N 32.19980 W-103.13750 SW7, N 32.19979 W-103.13749 SW8, N 32.19985 W-103.13751

Oxy, Plains Knight #1 Tank Battery U/L L, Section 23, T24S, R37E Groundwater: 75'-100'



?

New Mexico Office of the State Engineer Water Column/Average Depth to Water

replaced,		1												
C=the file	is		(0	quar	ters	are	1=NW	2=NE 3	3=SW 4=SE	E)				
closed)			(0	quar	ters	are	smalle	st to larg	gest) (1	NAD83 UTM in n	neters)	(In f	feet)	
	POD													
		_												ater
Code	basin	County	64	16	4	Sec	Tws	Rng				-	thWater Col	lumn
		LE				23	24S	37E	675913	3564435*	641	110	94	16
	СР	LE	4	1	1	23	24S	37E	675388	3564938*	708	1105		
	СР	LE	4	2	1	22	24S	37E	674182	3564918*	1312	85		
		LE	1	1	3	24	24S	37E	676812	3564362*	1514	112	100	12
	СР	LE	3	3	1	24	24S	37E	676805	3564564*	1537	88		
	СР	LE	3	3	1	24	24S	37E	676805	3564564*	1537	87		
										Avera	ge Depth to Wa	er:	97 feet	t
											Minimum De	pth:	94 feet	t
											Maximum De	pth:	100 feet	ł
<u>s Search (in</u>	meters	<u>s):</u>												
303		North	ing	(Y):	3	3564	235			Radius: 1700				
d from PLSS	S - see H	elp												
	replaced, O=orphan C=the file closed) Code	replaced, O=orphaned, C=the file is closed) POD Sub- basin CP CP CP CP CP CP Sub- basin CP CP CP CP CP CP CP CP CP CP	O=orphaned, C=the file is closed) POD Sub- Sub- LE CP LE CP LE CP LE CP LE CP LE CP LE CP LE CP LE	replaced, O=orphaned, C=the file is closed) (C C=the file is closed) POD Code Sub- Q Code Sub- Q Code Sub- Q Code Sub- Q Code CO L E Q Code C L E 4 CP LE 4 CP LE 1 CP LE 3 CP LE 3 CP LE 3 Sast Northing	replaced, O=orphaned, C=the file is closed) (quar	replaced, O=orphaned, (quarters) C=the file is closed) (quarters) POD Sub- Q Q Q Code Basin County 4 1 1 COde CP LE 4 1 1 CP LE 4 1 1 CP LE 1 1 3 CP LE 3 1 1 CP LE 3 1 1 CP LE 3 1 3 CP LE 3 1 3 CP LE 3 3 1 Statistic 1 1 1 1 333 1 1 1 1 1	replaced, O=orphaned, C=the file is closed) (quarters are (quarters are to complement of the second of the sec	replaced, O=orphaned, C=the file is closed) $\begin{array}{c c c c c c c c c c c c c c c c c c c $	replaced, O=orphaned, C=the file is closed) (quarters are l=NV 2=NE 3) (quarters are smallest to large	replaced, O=orphaned, C=the file is closed) (quarters are I=NW 2=NE 3=SW 4=SI (Quarters are smallest to largest) (Q Sub- Verific Verific Veri	replaced, O=orphaned, C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE) replaced, Cethe file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE) POD Sub- Q Q Code basin County 64 16 4 Sec Tws Rng X Y Code basin County 64 16 4 Sec Tws Rng X Y Code basin County 64 16 4 Sec Tws Rng X Y CP LE 23 24S 37E 675388 3564938*	replaced, O=orphaned, C=the file is closed) cuarters are smalles to largest) (NAD83 UTM in meters) POD Sub- basin Courty 64 5 6 7 6 9 6 6 Code basin Courty 6 4 5 6 7 8 7 0 istanceDep Code Corr LE Z 23 24S 37E 675913 3564435* 641 CP LE 4 1 1 23 24S 37E 675913 3564938* 708 CP LE 4 1 1 23 24S 37E 676812 3564938* 1312 CP LE 3 3 14 24 24S 37E 676805 3564564* 1537 CP LE 3 3 1 24 24S 37E 676805 3564564* 1537 CP LE 3 3 1 24 24S 37E 676805 3564564* 1537 CP LE 3 3	replaced, O=orphamed, C=the file is closed) (u=u=t=v=v=v=v=v=v=v=v=v=v=v=v=v=v=v=v=v=	replaced, O-orphawed, O-orphawed, C-ethe file is cuatres is interventional intervention interventional interventional interventional interventional interventional intervention interventene intervention intervention intervention int

4/17/17 9:01 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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UTM Conversion Tool Received by OCD: 3/13/2023 4:25:45 PM

Q64: Q	16: NW Q4: SW	Sec: 23 Tws: 24S F	ng: 37E
	State Plane Coord	linate System - NAD27	
X: ft	Y: ft	Zone:	
	State Plane Coord	linate System - NAD83	
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	Degrees/M	inutes/Seconds	
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Latitude (Y):	Degrees: °	Minutes: ' Seconds:	"
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			-10
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Plains Knight #1 Tank Battery





Plains Knight #1 Tank Battery



Laboratory Analytical Results Summary Plains Knight #1 TB

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	1/19/17	1/19/17	3/6/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	<0.050	< 0.050
Toluene	BTEX 8021B		<0.100	<0.050	< 0.050
Ethylbenzene	BTEX 8021B		0.174	<0.050	< 0.050
Total Xylenes	BTEX 8021B		1.22	<0.150	<0.150
Total BTEX	BTEX 8021B		1.39	<0.300	<0.300
Chloride	SM4500CI-B		560	368	128
GRO	TPH 8015M		<200	<50.0	<10.0
DRO	TPH 8015M		19600	169	17

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	1/19/17	1/19/17	3/6/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.100	< 0.050
Toluene	BTEX 8021B		<0.200	<0.100	< 0.050
Ethylbenzene	BTEX 8021B		0.239	0.244	< 0.050
Total Xylenes	BTEX 8021B		2.01	0.566	<0.150
Total BTEX	BTEX 8021B		2.25	0.811	< 0.300
Chloride	SM4500CI-B		976	256	160
GRO	TPH 8015M		309	<200	<10.0
DRO	TPH 8015M		8750	2470	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	1/19/17	1/19/17	3/6/17	3/6/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.100	<0.050	<0.050
Toluene	BTEX 8021B		<0.200	<0.100	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.200	0.392	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.39	0.943	<0.150	<0.150
Total BTEX	BTEX 8021B		1.39	1.34	<0.300	< 0.300
Chloride	SM4500CI-B		400	224	480	176
GRO	TPH 8015M		224	<200	<50.0	<10.0
DRO	TPH 8015M		21000	2860	<50.0	<10.0

		Sample	SP4 @ SURFACE	SP4 @ 1'
Analyte	Method	Date	1/19/17	3/6/17
			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		240	128
GRO	TPH 8015M		<50.0	<10.0
DRO	TPH 8015M		220	<10.0

		Sample	NORTH SAMPLE
Analyte	Method	Date	1/19/17
			mg/Kg
Benzene	BTEX 8021	IB	< 0.050
Toluene	BTEX 8021	< 0.050	
Ethylbenz	BTEX 8021	< 0.050	
Total Xyle	BTEX 8021	IB	<0.150
Total BTE	BTEX 8021	IB	<0.300
Chloride	SM4500CI-	·B	<16.0
GRO	TPH 8015	N	<10.0
DRO	TPH 8015	N	<10.0

	Sample		SOUTH SAMPLE
Analyte	Method	Date	1/19/17
			mg/Kg
Benzene	BTEX 8021	IB	< 0.050
Toluene	BTEX 8021	IB	< 0.050
Ethylbenz	BTEX 8021	IB	< 0.050
Total Xyle	BTEX 8021	IB	<0.150
Total BTE	BTEX 8021	IB	<0.300
Chloride	SM4500CI-	·B	<16.0
GRO	TPH 8015	N	<10.0
DRO	TPH 8015	N	<10.0

		Sample	WEST SAMPLE
Analyte	Method	Date	1/19/17
			mg/Kg
Benzene	BTEX 8021	IB	<0.050
Toluene	BTEX 8021	IB	<0.050
Ethylbenz	BTEX 8021	IB	< 0.050
Total Xyle	BTEX 8021	IB	<0.150
Total BTE	BTEX 8021	IB	< 0.300
Chloride	SM4500CI-	·B	<16.0
GRO	TPH 8015	N	<10.0
DRO	TPH 8015	N	<10.0

		Sample	EAST SAMPLE
Analyte	Method	Date	1/19/17
			mg/Kg
Benzene	BTEX 8021	IB	<0.050
Toluene	BTEX 8021	IB	<0.050
Ethylbenz	BTEX 8021	IB	<0.050
Total Xyle	BTEX 8021	IB	<0.150
Total BTE	BTEX 8021	IB	<0.300
Chloride	SM4500CI-	·B	<16.0
GRO	TPH 8015	N	<10.0
DRO	TPH 8015	N	<10.0

			BOTTOM	BOTTOM	BOTTOM	BOTTOM
		Sample ID	#1	#2	#3	#4
Analyte	Method	Date	12/12/17	12/12/17	12/12/17	12/12/17
			mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B		<16.0	16	16	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

			SIDEWALL							
		Sample ID	#1	#2	#3	#4	#5	#6	#7	#8
Analyte	Method	Date	12/12/17	12/12/17	12/12/17	12/12/17	12/12/17	12/12/17	12/12/17	12/12/17
			mg/kg							
Chloride	SM4500CI-B		16	<16.0	16	32	16	<16.0	<16.0	16
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0



January 30, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: PLAINS KNIGHT #1 TB

Enclosed are the results of analyses for samples received by the laboratory on 01/23/17 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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)

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. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 1 @ SURFACE (H700147-01)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.100	0.100	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	0.174	0.100	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	1.22	0.300	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	1.39	0.600	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	01/25/2017	ND	188	94.1	200	1.98	
DRO >C10-C28	19600	200	01/25/2017	ND	185	92.7	200	4.22	
Surrogate: 1-Chlorooctane	115 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	277 9	% 28-171	!						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 1 @ 1' (H700147-02)

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	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.050	0.050	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	<0.050	0.050	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	<0.150	0.150	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	<0.300	0.300	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	01/25/2017	ND	188	94.1	200	1.98	
DRO >C10-C28	169	50.0	01/25/2017	ND	185	92.7	200	4.22	
Surrogate: 1-Chlorooctane	84.9	% 35-147							
Surrogate: 1-Chlorooctadecane	105 9	28-171							

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 2 @ SURFACE (H700147-03)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.200	0.200	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	0.239	0.200	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	2.01	0.600	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	2.25	1.20	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	309	50.0	01/25/2017	ND	188	94.1	200	1.98	
DRO >C10-C28	8750	50.0	01/25/2017	ND	185	92.7	200	4.22	
Surrogate: 1-Chlorooctane	556	% 35-147	,						
Surrogate: 1-Chlorooctadecane	169	% 28-171							

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Celez D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 2 @ 1' (H700147-04)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.100	0.100	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	0.244	0.100	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	0.566	0.300	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	0.811	0.600	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	01/25/2017	ND	188	94.1	200	1.98	
DRO >C10-C28	2470	200	01/25/2017	ND	185	92.7	200	4.22	
Surrogate: 1-Chlorooctane	109 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	150 \$	% 28-171							

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Celez D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 3 @ SURFACE (H700147-05)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.200	0.200	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	<0.200	0.200	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	1.39	0.600	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	1.39	1.20	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	224	200	01/25/2017	ND	188	94.1	200	1.98	
DRO >C10-C28	21000	200	01/25/2017	ND	185	92.7	200	4.22	
Surrogate: 1-Chlorooctane	374 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	313 9	28-171							

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Celeg D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 3 @ 1' (H700147-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.100	0.100	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	0.392	0.100	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	0.943	0.300	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	1.34	0.600	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	01/25/2017	ND	188	94.1	200	1.98	
DRO >C10-C28	2860	200	01/25/2017	ND	185	92.7	200	4.22	
Surrogate: 1-Chlorooctane	108	% 35-147	,						
Surrogate: 1-Chlorooctadecane	196	% 28-171							

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Celez D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 4 @ SURFACE (H700147-07)

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	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.050	0.050	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	<0.050	0.050	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	<0.150	0.150	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	<0.300	0.300	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	01/25/2017	ND	188	94.1	200	1.98	
DRO >C10-C28	220	50.0	01/25/2017	ND	185	92.7	200	4.22	
Surrogate: 1-Chlorooctane	80.2	% 35-147	7						
Surrogate: 1-Chlorooctadecane	93.1	% 28-171	,						

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Celez D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: NORTH SAMPLE (H700147-08)

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	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.050	0.050	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	<0.050	0.050	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	<0.150	0.150	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	<0.300	0.300	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/25/2017	ND	178	89.1	200	10.2	
DRO >C10-C28	<10.0	10.0	01/25/2017	ND	188	93.9	200	2.21	
Surrogate: 1-Chlorooctane	87.1	35-147							
Surrogate: 1-Chlorooctadecane	93.9	28-171							

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Celez D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SOUTH SAMPLE (H700147-09)

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	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.050	0.050	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	<0.050	0.050	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	<0.150	0.150	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	<0.300	0.300	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/25/2017	ND	178	89.1	200	10.2	
DRO >C10-C28	<10.0	10.0	01/25/2017	ND	188	93.9	200	2.21	
Surrogate: 1-Chlorooctane	84.6	% 35-147							
Surrogate: 1-Chlorooctadecane	79.0	% 28-171							

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Celez D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: WEST SAMPLE (H700147-10)

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	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.050	0.050	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	<0.050	0.050	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	<0.150	0.150	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	<0.300	0.300	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/25/2017	ND	178	89.1	200	10.2	
DRO >C10-C28	<10.0	10.0	01/25/2017	ND	188	93.9	200	2.21	
Surrogate: 1-Chlorooctane	86.7	% 35-147							
Surrogate: 1-Chlorooctadecane	84.8	% 28-171							

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Celez D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: EAST SAMPLE (H700147-11)

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	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.050	0.050	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	<0.050	0.050	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	<0.150	0.150	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	<0.300	0.300	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/25/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/25/2017	ND	178	89.1	200	10.2	
DRO >C10-C28	<10.0	10.0	01/25/2017	ND	188	93.9	200	2.21	
Surrogate: 1-Chlorooctane	85.9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	79.6	% 28-171							

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Celez D. Keine

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.
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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

7 Page 14 of 15

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

Company Name: BBC International, Inc.		
Project Manager: Cliff Brunson	PO.#	ANALYSIS REQUEST
Address: P.O. Box 805	Company RVU	
city: Hobbs State: NM Zip:	88241 Attn: Acul	
Phone #: 575-397-6388 Fax #: 575-397-0397		
Project #: Project Owner: Oxy		
Project Name: Plains Knight #1 TB	State	
Project Location: Lea County, NM	Phone #	
Sampler Name: Roger Hernandez	Fax #:	
FOR LAB USE ONLY	MATRIX PRESERV. SAMPLING	ING
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Lab I.D. Sample I.D.	JNDWA EWATE GE R : BASE: COOL	TEX 1 9H
	GROU	BT
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	× 1/19/17	9:30 AM 🗸 🗸
4 SP2 @ 1'		
URFACE	× 1/19/17	
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	× 1/19/17	1:05 PM 🗸 🏑 🗸
WEST SAMPLE	-	1:25 PM / / / /
LEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim aris mayses. All claims including those for negligence and any other cause whatsnewer shall be deepend uni- ties.	any claim arising whether based in contract or tort, shall be limited to the amount paid	1.45 FM
es, including v eunder by Ca	ethend waved unless made in writing and received by Cardinal within 30 days after without limitation, business interruptions, loss of use, or loss of profits incurred by cli dinal, reqardless of whether such claim is based upon any of the above stated reas	completion of the applicable lent, its subsidiaries, sons or otherwise.
1		Phone Result: Yes No Add'I Phone #: Fax Result: Yes No Add'I Fax #:
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Sampler LIBS Bus Other HUR 010		

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

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Received by OCD: 3/13/2023 4:25:45 PM

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
Company Name: BBC International, Inc.	
Unson	P.O. #: ANALYSIS REQUEST
O. Box 805	Company: KU
State: NM Zip: 88241	Attn: asku summofs
5-397-0397	ss:
Project #: Project Owner: Oxy	City:
Project Location: Lea County, NM	
Sampler Name: Roger Hernandez	
MATRIX	ECEDV
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LFLASE NOTE: Liability and Damages. Cardina's liability and clients exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the naivees. All claims including those for negligence and any other cause whitsoever shall be deemed whether based in contract or fort, shall be limited to the amount paid by the client for the applicable enror. In or event shall Cardina's liable for includenta or completion of the applicable enror. In or event shall Cardina's liable for includenta or completion of the applicable enror.	fort, shall be limited to the amount paid by the client for the scelved by Cardinal within 30 days after completion of the applicable
Males or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	loss of use, or loss of profits incurred by client, its subsidiaries, is based upon any of the above stated reasons or otherwise.
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T Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	5-393-2476
	01177-020-

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Page 15 of 15



March 14, 2017

Cliff Brunson BBC International, Inc. P.O. Box 805

Hobbs, NM 88241

RE: PLAINS KNIGHT #1 TB

Enclosed are the results of analyses for samples received by the laboratory on 03/08/17 10:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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)

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. Keine

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:	03/08/2017	Sampling Date:	03/06/2017
Reported:	03/14/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - JAL		

Sample ID: SP 1 @ 2 (H700589-01)

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	03/13/2017	ND	2.01	101	2.00	1.89	
Toluene*	<0.050	0.050	03/13/2017	ND	1.87	93.7	2.00	2.37	
Ethylbenzene*	<0.050	0.050	03/13/2017	ND	1.86	92.9	2.00	2.94	
Total Xylenes*	<0.150	0.150	03/13/2017	ND	5.29	88.1	6.00	3.03	
Total BTEX	<0.300	0.300	03/13/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/09/2017	ND	448	112	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	03/08/2017	ND	199	99.5	200	4.57	
DRO >C10-C28	17.0	10.0	03/08/2017	ND	211	106	200	7.03	
Surrogate: 1-Chlorooctane	84.0	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	87.2	26.8-17	0						

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Celeg D. Keine

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:	03/08/2017	Sampling Date:	03/06/2017
Reported:	03/14/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - JAL		

Sample ID: SP 2 @ 2 (H700589-02)

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	03/13/2017	ND	2.01	101	2.00	1.89	
Toluene*	<0.050	0.050	03/13/2017	ND	1.87	93.7	2.00	2.37	
Ethylbenzene*	<0.050	0.050	03/13/2017	ND	1.86	92.9	2.00	2.94	
Total Xylenes*	<0.150	0.150	03/13/2017	ND	5.29	88.1	6.00	3.03	
Total BTEX	<0.300	0.300	03/13/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/09/2017	ND	448	112	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	03/08/2017	ND	199	99.5	200	4.57	
DRO >C10-C28	<10.0	10.0	03/08/2017	ND	211	106	200	7.03	
Surrogate: 1-Chlorooctane	84.0	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	82.8	% 26.8-17	0						

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Celez D. Keine

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:	03/08/2017	Sampling Date:	03/06/2017
Reported:	03/14/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - JAL		

Sample ID: SP 3 @ 2 (H700589-03)

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	03/13/2017	ND	2.01	101	2.00	1.89	
Toluene*	<0.050	0.050	03/13/2017	ND	1.87	93.7	2.00	2.37	
Ethylbenzene*	<0.050	0.050	03/13/2017	ND	1.86	92.9	2.00	2.94	
Total Xylenes*	<0.150	0.150	03/13/2017	ND	5.29	88.1	6.00	3.03	
Total BTEX	<0.300	0.300	03/13/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 72-148							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/09/2017	ND	448	112	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	<50.0	50.0	03/08/2017	ND	199	99.5	200	4.57	
DRO >C10-C28	<50.0	50.0	03/08/2017	ND	211	106	200	7.03	
Surrogate: 1-Chlorooctane	93.8	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	99.3	% 26.8-17	0						

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Celez D. Keine

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:	03/08/2017	Sampling Date:	03/06/2017
Reported:	03/14/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - JAL		

Sample ID: SP 3 @ 3 (H700589-04)

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	03/13/2017	ND	2.01	101	2.00	1.89	
Toluene*	<0.050	0.050	03/13/2017	ND	1.87	93.7	2.00	2.37	
Ethylbenzene*	<0.050	0.050	03/13/2017	ND	1.86	92.9	2.00	2.94	
Total Xylenes*	<0.150	0.150	03/13/2017	ND	5.29	88.1	6.00	3.03	
Total BTEX	<0.300	0.300	03/13/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 72-148							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/09/2017	ND	448	112	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	03/08/2017	ND	199	99.5	200	4.57	
DRO >C10-C28	<10.0	10.0	03/08/2017	ND	211	106	200	7.03	
Surrogate: 1-Chlorooctane	87.7	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	86.8	% 26.8-17	0						

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Celez D. Keine

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:	03/08/2017	Sampling Date:	03/06/2017
Reported:	03/14/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - JAL		

Sample ID: SP 4 @ 1 (H700589-05)

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	03/13/2017	ND	2.01	101	2.00	1.89	
Toluene*	<0.050	0.050	03/13/2017	ND	1.87	93.7	2.00	2.37	
Ethylbenzene*	<0.050	0.050	03/13/2017	ND	1.86	92.9	2.00	2.94	
Total Xylenes*	<0.150	0.150	03/13/2017	ND	5.29	88.1	6.00	3.03	
Total BTEX	<0.300	0.300	03/13/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 72-148	,						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/09/2017	ND	448	112	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	03/08/2017	ND	193	96.6	200	1.04	
DRO >C10-C28	<10.0	10.0	03/08/2017	ND	198	99.0	200	0.803	
Surrogate: 1-Chlorooctane	85.2	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	78.2	% 26.8-17	0						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

Company Name: BBC International, Inc.	07411B	ANAI YSIS REOLIEST
Project Manager: Cliff Brunson	P.O. #:	
Address: P.O. Box 805	Company: OXV	
City: Hobbs State: NM Zip: 88241	Attn:	
Phone #: 575-397-6388 Fax #: 575-397-0397	Address:	
	City:	
Project Name: Plain Knight #1 TB /	State: Zip:	
3	Phone #:	
Sampler Name: Jeff	Fax #:	
R	MATRIX PRESERV. SAMPLING	
3	OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE TME	BTEX CL-
A 1 - 3 K 0 - 45 - 45 K 0 - 45 - 45	V 3-6 12,00 V 1	
55940 1 G 1 V	V 3-6 1:39 V	
curringes, versional is including and cliefts exclusive remedy for any clieft those for negligence and any other cause whatsoever shall be deemed dinal be liable for incidental or consequentia damages, including without out of or related to the performance of services hereunder by Cardina, out of or related to the performance of services hereunder by Cardina.	I arising whether based in contract or tort, shall be limited to the amount paid by the client for the waived unless made in writing and received by Cardinal within 30 days after completion of the applicable limitation, business interruptions, loss of use, or loss of profits incurred by client, its suboid integrations, regardless of whether such claim is based upon any of the above stated easons redenance.	
Received By: Relinquished By: Relinquished By: Received By: Time: Received By:	KS:	□ Yes □ No Add'I Phone #: □ Yes □ No Add'I Fax #:
Sampler - UPS - Bus - Other: #75 -9,62 Cool in No.	Sample Condition CHECKED BY: Cool Intact Pryes Pres	
† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	jes to 505-393-2476	

Page 8 of 8



December 20, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: PLAINS KNIGHT #1 TB

Enclosed are the results of analyses for samples received by the laboratory on 12/13/17 8:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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)

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. Keine

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:	12/13/2017	Sampling Date:	12/12/2017
Reported:	12/20/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - JAL		

Sample ID: BOTTOM #1 (H703443-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/14/2017	ND	432	108	400	0.00	
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	12/16/2017	ND	193	96.4	200	4.89	
DRO >C10-C28	<10.0	10.0	12/16/2017	ND	179	89.6	200	8.15	
EXT DRO >C28-C36	<10.0	10.0	12/16/2017	ND					
Surrogate: 1-Chlorooctane	82.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	83.3	% 34.7-15	7						

Sample ID: BOTTOM #2 (H703443-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/14/2017	ND	432	108	400	0.00	
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	12/16/2017	ND	193	96.4	200	4.89	
DRO >C10-C28	<10.0	10.0	12/16/2017	ND	179	89.6	200	8.15	
EXT DRO >C28-C36	<10.0	10.0	12/16/2017	ND					
Surrogate: 1-Chlorooctane	83.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	82.2	% 34.7-15	7						

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Celeg D. Keine

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:	12/13/2017	Sampling Date:	12/12/2017
Reported:	12/20/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - JAL		

Sample ID: BOTTOM #3 (H703443-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/14/2017	ND	432	108	400	0.00	
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	12/16/2017	ND	193	96.4	200	4.89	
DRO >C10-C28	<10.0	10.0	12/16/2017	ND	179	89.6	200	8.15	
EXT DRO >C28-C36	<10.0	10.0	12/16/2017	ND					
Surrogate: 1-Chlorooctane	82.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	81.6	% 34.7-15	7						

Sample ID: BOTTOM #4 (H703443-04)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/14/2017	ND	432	108	400	0.00	
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	12/16/2017	ND	193	96.4	200	4.89	
DRO >C10-C28	<10.0	10.0	12/16/2017	ND	179	89.6	200	8.15	
EXT DRO >C28-C36	<10.0	10.0	12/16/2017	ND					
Surrogate: 1-Chlorooctane	79.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	78.8	% 34.7-15	7						

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Celeg D. Keine

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:	12/13/2017	Sampling Date:	12/12/2017
Reported:	12/20/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - JAL		

Sample ID: SIDEWALL #1 (H703443-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/14/2017	ND	432	108	400	0.00	
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	12/16/2017	ND	193	96.4	200	4.89	
DRO >C10-C28	<10.0	10.0	12/16/2017	ND	179	89.6	200	8.15	
EXT DRO >C28-C36	<10.0	10.0	12/16/2017	ND					
Surrogate: 1-Chlorooctane	77.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	76.1	% 34.7-15	7						

Sample ID: SIDEWALL #2 (H703443-06)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/14/2017	ND	432	108	400	0.00	
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	12/16/2017	ND	193	96.4	200	4.89	
DRO >C10-C28	<10.0	10.0	12/16/2017	ND	179	89.6	200	8.15	
EXT DRO >C28-C36	<10.0	10.0	12/16/2017	ND					
Surrogate: 1-Chlorooctane	78.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	78. 3	% 34.7-15	7						

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Celeg D. Keine

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:	12/13/2017	Sampling Date:	12/12/2017
Reported:	12/20/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - JAL		

Sample ID: SIDEWALL #3 (H703443-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/14/2017	ND	432	108	400	0.00	
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	12/16/2017	ND	193	96.4	200	4.89	
DRO >C10-C28	<10.0	10.0	12/16/2017	ND	179	89.6	200	8.15	
EXT DRO >C28-C36	<10.0	10.0	12/16/2017	ND					
Surrogate: 1-Chlorooctane	84.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	83.9	% 34.7-15	7						

Sample ID: SIDEWALL #4 (H703443-08)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/14/2017	ND	432	108	400	0.00	
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	12/16/2017	ND	193	96.4	200	4.89	
DRO >C10-C28	<10.0	10.0	12/16/2017	ND	179	89.6	200	8.15	
EXT DRO >C28-C36	<10.0	10.0	12/16/2017	ND					
Surrogate: 1-Chlorooctane	78.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	76.8	% 34.7-15	7						

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Celeg D. Keine

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:	12/13/2017	Sampling Date:	12/12/2017
Reported:	12/20/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - JAL		

Sample ID: SIDEWALL #5 (H703443-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/14/2017	ND	432	108	400	0.00	
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	12/16/2017	ND	193	96.4	200	4.89	
DRO >C10-C28	<10.0	10.0	12/16/2017	ND	179	89.6	200	8.15	
EXT DRO >C28-C36	<10.0	10.0	12/16/2017	ND					
Surrogate: 1-Chlorooctane	87.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	86.4	% 34.7-15	7						

Sample ID: SIDEWALL #6 (H703443-10)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/14/2017	ND	432	108	400	0.00	
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	12/16/2017	ND	193	96.4	200	4.89	
DRO >C10-C28	<10.0	10.0	12/16/2017	ND	179	89.6	200	8.15	
EXT DRO >C28-C36	<10.0	10.0	12/16/2017	ND					
Surrogate: 1-Chlorooctane	80.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	78.9	% 34.7-15	7						

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Celeg D. Keine

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:	12/13/2017	Sampling Date:	12/12/2017
Reported:	12/20/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - JAL		

Sample ID: SIDEWALL #7 (H703443-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/14/2017	ND	416	104	400	0.00	
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	12/16/2017	ND	193	96.4	200	4.89	
DRO >C10-C28	<10.0	10.0	12/16/2017	ND	179	89.6	200	8.15	
EXT DRO >C28-C36	<10.0	10.0	12/16/2017	ND					
Surrogate: 1-Chlorooctane	82.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.2	% 34.7-15	7						

Sample ID: SIDEWALL #8 (H703443-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/14/2017	ND	416	104	400	0.00	
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	12/17/2017	ND	190	95.1	200	6.51	
DRO >C10-C28	<10.0	10.0	12/17/2017	ND	168	83.8	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	12/17/2017	ND					
Surrogate: 1-Chlorooctane	80.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	83.9	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland Labbe NM 88240		
(505) 393-2326 FAX (505) 393-2476		7 21
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		
Phone #: 575-397-6388 Fax #: 575-397-0397	Address:	
Project #: Project Owner: OV	city:	
Project Name: MALAS KAUGAH # 171	State: Zip:	
Project Location:	Phone #:	
Sampler Name: Prover HERICINCLEZ		
FOR LAB USE ONLY	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D.	SE: OL	
# CONT	WASTE SOIL OIL SLUDG OTHER ACID/B/ ICE / CC OTHER DATE	
1 Bottom # 1 G1	1 1212-17 100 NV	
B	1 1 1.1.1.1.1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
2 Dottom # U	1 1 2 L (L'U-U) 1 1	
S SIDENAL + 1 CI	1 1 52141521 1 V	
6 SILEMALL # 12 CI	V V 12.7.11 100 V V	
SIDENALL # A CI	V V MANNA V	
SINGUAL TO CI	1 1 12 12 12 1 1 1 1 1 1 1 1 1 1 1 1 1	
PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Co	binity and Damages. Cardina's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	
out of or related to the performance of services hereunder by	*	
Time: Time: Thereaven by.	Wid Sment M. REMARKS:	No Add'I Fax #:
Relinquished By: Date: Date: ILII Received By:	By: Warr Mantalo	
Delivered By: (Circle One) 5.52	Sample Condition CHECKED BY: Cool Intact (Initials)	
Sampler - UPS - Bus - Other:	No Erros To- #251 Has Juic	of Sonel. To.
† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	n changes to 505-393-2476	

Page 9 of 10

Received by OCD: 3/13/2023 4:25:45 PM

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
Project Manager: Cliff Brunson	BILL TO ANALYSIS REQUEST P.O. # 1
Address: P.O. Box 805	Company:
City: Hobbs State: NM Zip: 88241	Attn:
5-397-6388 Fax #: 575-	ess:
Project #: Project Owner: QU	city:
Project Name: PLAINS Kaught # 178	: Zip:
Project Location:	Phone #:
Sampler Name: Lorent HERMANEZ	Fax #:
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING
RS TER	
	ER : D/BASE: COOL
# CO GRO	
CULENTU # C C I V	X X 577, WILT A
X.,	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and neeved by Cardinal which 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,	eey for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,
Relinquished By: Refer for andly Time: Received By: Time: The start of the start	Preference Property Stated upon any of the above stated reasons or otherwset. Property State Property State Property State Property State
Relinquished By: Date: Date: Received By:	
Time: 8	Allabert .
(Circle One) S.S.C	ion CHECKED BY:
Sampier - UPS - Bus - Other: UNVILLED S. 15C- No No No	: TP. #25 Has had Spree. TO.
† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	505-393-2476

Released to Imaging: 4/10/2023 3:45:35 PM

Page 10 of 10

From:	Yu, Olivia, EMNRD
To:	Cliff Brunson; Billings, Bradford, EMNRD
Cc:	Wade Dittrich; Jennifer_Smith@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject:	RE: OXY - Plains Knight #1 TB (1RP-4555) - Delineation Workplan
Date:	Wednesday, August 2, 2017 2:18:06 PM

Mr. Brunson:

While delineation is not considered complete, given the timeline between release (December 19, 2016) and initial soil sample (January 19, 2017) date, NMOCD will approve of the proposed remediation for 1RP-4555 with several conditions:

- 1. For the area demarcated as SP1 and SP2, bottom and sidewall confirmatory samples for the proposed 1.5 ft. excavation depth. A minimum of 3 bottom and 5 sidewall samples to complete horizontal delineation.
- 2. For the area demarcated as SP3, excavation to 2 ft. bgs would be sufficient. Collect minimum of 1 bottom and 3 sidewalls for confirmatory laboratory samples.
- 3. Demarcate confirmatory bottom and sidewall sample locations and depths of excavation on a properly scaled map.
- 4. Use Method 8015 extended for TPH (GRO, DRO, and MRO).

Please confirm.

Thanks,

Olivia Yu Environmental Specialist NMOCD, District I <u>Olivia.yu@state.nm.us</u> 575-393-6161 x113

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.

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Saturday, July 8, 2017 6:39 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: Wade Dittrich <Wade_Dittrich@oxy.com>; Jennifer_Smith@oxy.com; Ken Swinney
<kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis
<kathy@bbcinternational.com>
Subject: OY(<_Disject (aicht #1 TP) (1DP, 4555)</p>
Deligection Mechanics

Subject: OXY - Plains Knight #1 TB (1RP-4555) - Delineation Workplan

Olivia,

Please find the attached Delineation Workplan and remediation proposal for the OXY Plains Knight #1 TB (1RP-4555). OXY is requesting that you review this plan and is looking forward to the OCD's.

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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Oxy, Plains Knight #1 Tank Battery

Sample points, hand auger SP1, N 32.19981 W-103.13771 SP2, N 32.19978 W-103.13759 SP3, N 32.19981 W-103.13749 SP4, N 32.19981 W-103.13740

NORTH, N 32.19986 W-103.13760 SOUTH, N 32.19977 W-103.13757 EAST, N 32.19982 W-103.13734 WEST, N 32.19981 W-103.13773

Oxy, Plains Knight #1 Tank Battery U/L L, Section 23, T24S, R37E Groundwater: 75'-100'



Page 60 of 85

Laboratory Analytical Results Summary Plains Knight #1 TB

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	1/19/17	1/19/17	3/6/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	<0.050	< 0.050
Toluene	BTEX 8021B		<0.100	<0.050	< 0.050
Ethylbenzene	BTEX 8021B		0.174	<0.050	< 0.050
Total Xylenes	BTEX 8021B		1.22	<0.150	<0.150
Total BTEX	BTEX 8021B		1.39	<0.300	<0.300
Chloride	SM4500CI-B		560	368	128
GRO	TPH 8015M		<200	<50.0	<10.0
DRO	TPH 8015M		19600	169	17

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	1/19/17	1/19/17	3/6/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.100	< 0.050
Toluene	BTEX 8021B		<0.200	<0.100	< 0.050
Ethylbenzene	BTEX 8021B		0.239	0.244	< 0.050
Total Xylenes	BTEX 8021B		2.01	0.566	<0.150
Total BTEX	BTEX 8021B		2.25	0.811	< 0.300
Chloride	SM4500CI-B		976	256	160
GRO	TPH 8015M		309	<200	<10.0
DRO	TPH 8015M		8750	2470	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	1/19/17	1/19/17	3/6/17	3/6/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.100	<0.050	<0.050
Toluene	BTEX 8021B		<0.200	<0.100	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.200	0.392	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.39	0.943	<0.150	<0.150
Total BTEX	BTEX 8021B		1.39	1.34	<0.300	< 0.300
Chloride	SM4500CI-B		400	224	480	176
GRO	TPH 8015M		224	<200	<50.0	<10.0
DRO	TPH 8015M		21000	2860	<50.0	<10.0

		Sample	SP4 @ SURFACE	SP4 @ 1'
Analyte	Method	Date	1/19/17	3/6/17
			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		240	128
GRO	TPH 8015M		<50.0	<10.0
DRO	TPH 8015M		220	<10.0

		Sample	NORTH SAMPLE
Analyte	Method	Date	1/19/17
			mg/Kg
Benzene	BTEX 8021	< 0.050	
Toluene	BTEX 8021	< 0.050	
Ethylbenz	BTEX 8021	< 0.050	
Total Xyle	BTEX 8021	<0.150	
Total BTE	BTEX 8021	< 0.300	
Chloride	SM4500CI-	<16.0	
GRO	TPH 8015	<10.0	
DRO	TPH 8015	N	<10.0

		Sample	SOUTH SAMPLE
Analyte	Method	Date	1/19/17
			mg/Kg
Benzene	BTEX 8021	IB	< 0.050
Toluene	BTEX 8021	IB	< 0.050
Ethylbenz	BTEX 8021	IB	< 0.050
Total Xyle	BTEX 8021	IB	<0.150
Total BTE	BTEX 8021	IB	< 0.300
Chloride	SM4500CI-	·B	<16.0
GRO	TPH 8015	N	<10.0
DRO	TPH 8015	N	<10.0

		Sample	WEST SAMPLE
Analyte	Method	Date	1/19/17
			mg/Kg
Benzene	BTEX 8021	1B	<0.050
Toluene	BTEX 8021	1B	< 0.050
Ethylbenz	BTEX 8021	1B	< 0.050
Total Xyle	BTEX 8021	1B	<0.150
Total BTE	BTEX 8021	1B	< 0.300
Chloride	SM4500CI-	-B	<16.0
GRO	TPH 8015	M	<10.0
DRO	TPH 8015	N	<10.0

		Sample	EAST SAMPLE
Analyte	Method	Date	1/19/17
			mg/Kg
Benzene	BTEX 8021	IB	<0.050
Toluene	BTEX 8021	IB	<0.050
Ethylbenz	BTEX 8021	IB	<0.050
	BTEX 8021		<0.150
Total BTE	BTEX 8021	IB	<0.300
Chloride	SM4500CI-	·B	<16.0
GRO	TPH 8015	N	<10.0
DRO	TPH 8015	N	<10.0



January 30, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: PLAINS KNIGHT #1 TB

Enclosed are the results of analyses for samples received by the laboratory on 01/23/17 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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)

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. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 1 @ SURFACE (H700147-01)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.100	0.100	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	0.174	0.100	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	1.22	0.300	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	1.39	0.600	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	01/25/2017	ND	188	94.1	200	1.98	
DRO >C10-C28	19600	200	01/25/2017	ND	185	92.7	200	4.22	
Surrogate: 1-Chlorooctane	115 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	277 \$	% 28-171	!						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 1 @ 1' (H700147-02)

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	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.050	0.050	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	<0.050	0.050	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	<0.150	0.150	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	<0.300	0.300	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	01/25/2017	ND	188	94.1	200	1.98	
DRO >C10-C28	169	50.0	01/25/2017	ND	185	92.7	200	4.22	
Surrogate: 1-Chlorooctane	84.9	35-147	7						
Surrogate: 1-Chlorooctadecane	105 9	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 2 @ SURFACE (H700147-03)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.200	0.200	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	0.239	0.200	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	2.01	0.600	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	2.25	1.20	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	309	50.0	01/25/2017	ND	188	94.1	200	1.98	
DRO >C10-C28	8750	50.0	01/25/2017	ND	185	92.7	200	4.22	
Surrogate: 1-Chlorooctane	556	% 35-147	,						
Surrogate: 1-Chlorooctadecane	169	% 28-171							

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 2 @ 1' (H700147-04)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.100	0.100	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	0.244	0.100	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	0.566	0.300	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	0.811	0.600	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	01/25/2017	ND	188	94.1	200	1.98	
DRO >C10-C28	2470	200	01/25/2017	ND	185	92.7	200	4.22	
Surrogate: 1-Chlorooctane	109 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	150 \$	28-171							

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*=Accredited Analyte

Celez D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 3 @ SURFACE (H700147-05)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.200	0.200	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	<0.200	0.200	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	1.39	0.600	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	1.39	1.20	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	224	200	01/25/2017	ND	188	94.1	200	1.98	
DRO >C10-C28	21000	200	01/25/2017	ND	185	92.7	200	4.22	
Surrogate: 1-Chlorooctane	374 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	313 9	28-171							

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Celez D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 3 @ 1' (H700147-06)

BTEX 8021B	mg	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.100	0.100	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	0.392	0.100	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	0.943	0.300	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	1.34	0.600	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	01/25/2017	ND	188	94.1	200	1.98	
DRO >C10-C28	2860	200	01/25/2017	ND	185	92.7	200	4.22	
Surrogate: 1-Chlorooctane	108	% 35-147	7						
Surrogate: 1-Chlorooctadecane	196	% 28-171	,						

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Celeg D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 4 @ SURFACE (H700147-07)

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	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.050	0.050	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	<0.050	0.050	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	<0.150	0.150	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	<0.300	0.300	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	01/25/2017	ND	188	94.1	200	1.98	
DRO >C10-C28	220	50.0	01/25/2017	ND	185	92.7	200	4.22	
Surrogate: 1-Chlorooctane	80.2	% 35-147							
Surrogate: 1-Chlorooctadecane	93.1	% 28-171							

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Celez D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: NORTH SAMPLE (H700147-08)

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	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.050	0.050	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	<0.050	0.050	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	<0.150	0.150	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	<0.300	0.300	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/25/2017	ND	178	89.1	200	10.2	
DRO >C10-C28	<10.0	10.0	01/25/2017	ND	188	93.9	200	2.21	
Surrogate: 1-Chlorooctane	87.1	% 35-147							
Surrogate: 1-Chlorooctadecane	93.9	% 28-171							

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Celez D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SOUTH SAMPLE (H700147-09)

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	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.050	0.050	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	<0.050	0.050	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	<0.150	0.150	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	<0.300	0.300	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/25/2017	ND	178	89.1	200	10.2	
DRO >C10-C28	<10.0	10.0	01/25/2017	ND	188	93.9	200	2.21	
Surrogate: 1-Chlorooctane	84.6	% 35-147							
Surrogate: 1-Chlorooctadecane	79.0	% 28-171							

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Celez D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: WEST SAMPLE (H700147-10)

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	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.050	0.050	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	<0.050	0.050	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	<0.150	0.150	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	<0.300	0.300	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/25/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/25/2017	ND	178	89.1	200	10.2	
DRO >C10-C28	<10.0	10.0	01/25/2017	ND	188	93.9	200	2.21	
Surrogate: 1-Chlorooctane	86.7	% 35-147							
Surrogate: 1-Chlorooctadecane	84.8	% 28-171							

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Celez D. Keine

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:	01/23/2017	Sampling Date:	01/19/2017
Reported:	01/30/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: EAST SAMPLE (H700147-11)

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	01/27/2017	ND	2.13	107	2.00	0.189	
Toluene*	<0.050	0.050	01/27/2017	ND	2.11	106	2.00	0.288	
Ethylbenzene*	<0.050	0.050	01/27/2017	ND	2.16	108	2.00	0.00954	
Total Xylenes*	<0.150	0.150	01/27/2017	ND	6.14	102	6.00	0.0936	
Total BTEX	<0.300	0.300	01/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.6-14	0						
Chloride, SM4500Cl-B mg/kg		Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/25/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/25/2017	ND	178	89.1	200	10.2	
DRO >C10-C28	<10.0	10.0	01/25/2017	ND	188	93.9	200	2.21	
Surrogate: 1-Chlorooctane	85.9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	79.6	% 28-171							

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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.
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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 14 of 15

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

Company Name: BBC International, Inc.		
Project Manager: Cliff Brunson	PO #	ANALYSIS REQUEST
Address: P.O. Box 805		
city: Hobbs State: NM Zip:	: 88241 Attn: Actil	
(J)		
Project #: Project Owner: Oxy		
Project Name: Plains Knight #1 TB	State.	
Project Location: Lea County, NM	Dropp #.	
Sampler Name: Roger Hernandez	Fax #:	
FOR LAB USE ONLY	ESERV.	SAMPLING
	R	
Sample I.D.	R : BASE: COOL	TEX
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JRFACE 6	V	.00
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S SP3 @ SI REACE	1	10:35 AM 🗸 🗸
6 SP3 @ 1'		
SP4 @ SURFACE		
S NORTH SAMPLE		
WIEST CAMPLE	× × 1/19/17	1:25 PM 🗸 🗸
LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim a	1/19/17	1:45 PM V V V
3 those for negligence and any other cause whe rdinal be liable for incidental or consequental di a out of or related to the performance of service	Isoever shall be deened waived unless made in writing and received by Cardinal within 30 days a amages, including without limitation, business interruptions, loss of use, or loss of profits incurred b the thread of the second secon	paid by the client for the ther completion of the applicable by client, its subsidiaries,
Date: Date: A Rece	Received By:	ult: 🗆 Yes
Canatt	oulis himas	□ No
Times	Received By:	
Delivered By: (Circle One)	6	
Sampler - UPS - Bus - Other: #75 2.40	Cool Intact	
	I NO ON LON L	

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

Page 74 of 85

Received by OCD: 3/13/2023 4:25:45 PM

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
Company Name: BBC International, Inc.	
	P.O. #: ANALYSIS REQUEST
O. Box 805	Company: KU
State: NM Zip: 88241	Attn: ascul xuminol x
5-397-0397	ess:
	City:
	State: Zin:
Project Location: Lea County, NM	ŧ
Roger Hernandez	
MATRIX	
S ER R	
	ASE: DOL :
# CONT GROUN WASTE SOIL DIL SLUDG	
1 1	✓ 1/19/17 2:00 PM ✓ ✓
2	
THEFT	
PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoevers shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the apolicable terrore. In no event shall Cardinal Cardinal table for includinal normanism demonstrations including those for negligence and any other cause whatsoevers shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the apolicable terrore.	fort, shall be limited to the amount paid by the client for the scelved by Cardinal within 30 days after completion of the apolicable
Iffiales or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	loss of use, or loss of profits incurred by client, its subsidiaries, is based upon any of the above stated reasons or otherwise.
The Anna A Timer Received By:	Phone Result:
E: B Refeiver Ru:	UMUU REMARKS:
Time? Sa	IN APPA
Sample	1 CHECKED BY:
Sampler - UPS - Bus - Other: #75 2,40 Prese Yes	(Inhitis
† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	5-393-2476

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Page 15 of 15



March 14, 2017

Cliff Brunson BBC International, Inc. P.O. Box 805

Hobbs, NM 88241

RE: PLAINS KNIGHT #1 TB

Enclosed are the results of analyses for samples received by the laboratory on 03/08/17 10:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 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.

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. Keine

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:	03/08/2017	Sampling Date:	03/06/2017
Reported:	03/14/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - JAL		

Sample ID: SP 1 @ 2 (H700589-01)

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	03/13/2017	ND	2.01	101	2.00	1.89	
Toluene*	<0.050	0.050	03/13/2017	ND	1.87	93.7	2.00	2.37	
Ethylbenzene*	<0.050	0.050	03/13/2017	ND	1.86	92.9	2.00	2.94	
Total Xylenes*	<0.150	0.150	03/13/2017	ND	5.29	88.1	6.00	3.03	
Total BTEX	<0.300	0.300	03/13/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/09/2017	ND	448	112	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	03/08/2017	ND	199	99.5	200	4.57	
DRO >C10-C28	17.0	10.0	03/08/2017	ND	211	106	200	7.03	
Surrogate: 1-Chlorooctane	84.0	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	87.2	26.8-17	0						

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Celeg D. Keine

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:	03/08/2017	Sampling Date:	03/06/2017
Reported:	03/14/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - JAL		

Sample ID: SP 2 @ 2 (H700589-02)

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	03/13/2017	ND	2.01	101	2.00	1.89	
Toluene*	<0.050	0.050	03/13/2017	ND	1.87	93.7	2.00	2.37	
Ethylbenzene*	<0.050	0.050	03/13/2017	ND	1.86	92.9	2.00	2.94	
Total Xylenes*	<0.150	0.150	03/13/2017	ND	5.29	88.1	6.00	3.03	
Total BTEX	<0.300	0.300	03/13/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148	,						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/09/2017	ND	448	112	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	03/08/2017	ND	199	99.5	200	4.57	
DRO >C10-C28	<10.0	10.0	03/08/2017	ND	211	106	200	7.03	
Surrogate: 1-Chlorooctane	84.0	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	82.8	% 26.8-17	0						

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*=Accredited Analyte

Celez D. Keine

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:	03/08/2017	Sampling Date:	03/06/2017
Reported:	03/14/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - JAL		

Sample ID: SP 3 @ 2 (H700589-03)

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	03/13/2017	ND	2.01	101	2.00	1.89	
Toluene*	<0.050	0.050	03/13/2017	ND	1.87	93.7	2.00	2.37	
Ethylbenzene*	<0.050	0.050	03/13/2017	ND	1.86	92.9	2.00	2.94	
Total Xylenes*	<0.150	0.150	03/13/2017	ND	5.29	88.1	6.00	3.03	
Total BTEX	<0.300	0.300	03/13/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 72-148	,						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/09/2017	ND	448	112	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	<50.0	50.0	03/08/2017	ND	199	99.5	200	4.57	
DRO >C10-C28	<50.0	50.0	03/08/2017	ND	211	106	200	7.03	
Surrogate: 1-Chlorooctane	93.8 9	25.1-15	8						
Surrogate: 1-Chlorooctadecane	99.3 9	26.8-17	0						

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*=Accredited Analyte

Celeg D. Keine

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:	03/08/2017	Sampling Date:	03/06/2017
Reported:	03/14/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - JAL		

Sample ID: SP 3 @ 3 (H700589-04)

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	03/13/2017	ND	2.01	101	2.00	1.89	
Toluene*	<0.050	0.050	03/13/2017	ND	1.87	93.7	2.00	2.37	
Ethylbenzene*	<0.050	0.050	03/13/2017	ND	1.86	92.9	2.00	2.94	
Total Xylenes*	<0.150	0.150	03/13/2017	ND	5.29	88.1	6.00	3.03	
Total BTEX	<0.300	0.300	03/13/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/09/2017	ND	448	112	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	03/08/2017	ND	199	99.5	200	4.57	
DRO >C10-C28	<10.0	10.0	03/08/2017	ND	211	106	200	7.03	
Surrogate: 1-Chlorooctane	87.7	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	86.8	% 26.8-17	0						

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Celez D. Keine

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:	03/08/2017	Sampling Date:	03/06/2017
Reported:	03/14/2017	Sampling Type:	Soil
Project Name:	PLAINS KNIGHT #1 TB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - JAL		

Sample ID: SP 4 @ 1 (H700589-05)

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	03/13/2017	ND	2.01	101	2.00	1.89	
Toluene*	<0.050	0.050	03/13/2017	ND	1.87	93.7	2.00	2.37	
Ethylbenzene*	<0.050	0.050	03/13/2017	ND	1.86	92.9	2.00	2.94	
Total Xylenes*	<0.150	0.150	03/13/2017	ND	5.29	88.1	6.00	3.03	
Total BTEX	<0.300	0.300	03/13/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 72-148							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/09/2017	ND	448	112	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	03/08/2017	ND	193	96.6	200	1.04	
DRO >C10-C28	<10.0	10.0	03/08/2017	ND	198	99.0	200	0.803	
Surrogate: 1-Chlorooctane	85.2	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	78.2	% 26.8-17	0						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Address: P.O. Box 805		Company: OLU					
city: Hobbs State: NM	M Zip: 88241	Attn:					
Phone #: 575-397-6388 Fax #: 5	Υ Γ	Address:					
Project #: Project Owner: () X	mer: 0X4	City:					
Project Name: Plain Knight #17	IA /	State: Zip:					
		Phone #:					
Sampler Name: Jeff		Fax #:					
FOR LAB USE ONLY		PRESERV. SAMPLING	LING				
Lab I.D. Sample I.D.		D/BASE: / COOL	PH	STEX	CL-		
	GROUM	OTHER ACID/B/ ICE / CC OTHER DATE	TIME	B-	CL		
6 00 1 92 1		V 3-6	A b1:01	5	5		
6 0 5 6 5 7	6 I V	V. 3-6	12.45 V	55	5<		
T OL C	GIV	1 3-6	1:39 V	<	<		
1 Childs	G- 1	v 3-6	V 05:20	<	5		
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unknown withing and recorded by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without on the site of the applicable affiliates or successors arising out of or related to the enformation of exemptions to the exemptions. It is used to the enformed environment of the entry of the analyses. In the overent shall Cardinal by client, its subsidiaries, affiliates or successors arising out of or related to the enformation of the environment of the environ	for any claim arising whether based in contract or the deemed waived unless made in writing and uding without limitation, business interruptions, lo	or tort, shall be limited to the amount pe received by Cardinal within 30 days aft res of use, or loss of profits incurred by	aid by the client for the ler completion of the applicab client, its subsidiaries,	ē	-		
Neiiiiquisned By:	Pate: 6 Phone Res: Fax Result:		Phone Result: Fax Result:	□ Yes	N No	Add'l Phone #: Add'l Fax #-	
Relinquisbed By: Date:	Received By:	MARI	REMARKS:				
Delivered By: (Circle One)	G / D Sample Condition	on CHECKED BY:					
	- 160 Tres Tres						

† Card

dinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profils incurred by clerit, its subsidiaries, out of or related to the performance of services herewnder by Cardinal, restardless of whether such claim is based upon any of the above stated reasons or otherwise. Date: Received By: Re	3	Received By:	D. Sample I.D. 150 20 20 20 250 20 250 250 20 250 250 20 250 250 250 250 250 250 250 2	D. Sample I.D. (C) OM 10. (C) OM (C) OM 11. (C) OM (C) OM 12. (C) OM (C) OM (C) OM 13. (C) OM (C) OM (C) OM 14. (C) OM (C) OM (C) OM 14. (C) OM (C) OM (C) OM 14. (C) OM (C) OM (C) OM (C) OM 15. (C) OM (C) OM (C) OM (C) OM (C) OM 14. (C) OM 15. (C) OM (C) OM (C) OM (C) OM (C) OM </th <th>1:39 V 7 PH</th> <th>CKKKK BTEX</th> <th><u> </u></th>	1:39 V 7 PH	CKKKK BTEX	<u> </u>
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Released to Imaging: 4/10/2023 3:45:35 PM

Project Manager: Cliff Brunson

P.O. #:

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.

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

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

Form C-141 Revised August 8, 2011

Oil Conservation Division

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

District IV 1220 S. St. Fran	cic Dr. Sant	n Fe NM 87504	5			h St. Franc			ac	cordance w		5.27 NMAC.
1220 3, 31, 1140		4 FC, NWI 0750				e, NM 875						
			Rel	ease Notific	catio	n and Co	orrective A	ction				
					_	OPERA	ГOR		🛛 Initia	al Report		Final Repor
Name of Co		Oxy Permia					Casey Summers					
Address Facility Nat		294; Houston			\rightarrow	Telephone I		-8289				
		ns Knight #1	тапк Ба	intery		Facility Typ	e Battery			<u></u>		
Surface Ow	ner			Mineral C	Owner				API No	. 30-025-	11207	
				LOCA	TIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/W	/est Line	County		
							*					
L	23	24S	37E					L		Lea Coun	ty, NM	
				Latitude <u>N 32.1</u>	<u>9978°</u>	Longitu	de <u>W 103.1375</u>	<u>3°</u>				
				NAT	TIRE	OF REL	FASE					
Type of Rele	ase Prod	uced water			URL		Release 15 bbls		Volume R	lecovered	10 bhl	
Source of Re			to failure	of a pump toggle	switch	Date and H	lour of Occurrence			Hour of Dis		
337 8 11		<u></u>				12/19/2010						
Was Immedia	ate Notice (I Yes E	No 🗌 Not R	enuired	If YES, To Tomas Ob	erding- NMOCD					
By Whom?	Kathu@ B	BC Internatio			equired		lour 12/21/201		10			
Was a Water			mar, me.				olume Impacting t					
			Yes 🗵	No								
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	*								
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*								
		e switched cau switch was ret		to spill 15 bbls o service.	f produ	ced water insi	de the firewall on	location	. A vacuu	m truck reco	overed	10 bbis of
Describe Are	a Affected	and Cleanup A	Action Ta	ken.*								
NMOCD.				location inside the						-		-
regulations at public health should their of or the environ	Il operators or the envi operations h nment. In a	are required to ronment. The nave failed to a addition, NMC	o report a acceptane adequately OCD accept	e is true and comp nd/or file certain r ce of a C-141 repo y investigate and r ptance of a C-141	elease r ort by th emediat	notifications a ne NMOCD m te contaminati	nd perform correct arked as "Final R on that pose a thr	ctive acti eport" de eat to gr	ons for rele oes not reli ound water	eases which eve the ope , surface wa	may en rator of ater, hui	danger liability man health
federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION												
Signature:												
Signature:												
Printed Name	e: Casey	Summers				Approved by Environmental Specialist:						
Title: NM	Environme	ntal Advisor				Approval Da	oval Date: Expiration I			Date:		
E-mail Addre	ess: <u>Case</u>	y_Summers@				Conditions of	f Approval:			Attached		
Date:	<u>[- ~[-]</u>		Phone	: (575) 513-82	289							
Attach Addi	tional She	ets If Necess	ary									

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

Operator:	OGRID:
J R OIL, LTD. CO.	256073
P.O. Box 52647	Action Number:
Tulsa, OK 74152	196534
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By		Condition Date
jharimon	None	4/10/2023

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Action 196534