Closure Report

	Site Description
Site Name:	West Brushy 8 Federal SWD #001
Company:	COG Operating, LLC
Legal Description:	U/L A, Section 8, T26S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.084544° W-103.980062°

Release Data

Date of Release:	07/27/2017
Type of Release:	Produced water
Source of Release:	Flowline leak
Volume of Release:	10,235 bbls
Volume Recovered:	0 bbls

	Remediatio	n Specifications
Remediation Parameters:	SP4 & SP14 to 3 SP12, SB4 SP5, bentonite clay in	a near SP1& SP2 to 1ft.; SP3, SP6, & SP7 to 2ft; ft; SP8, SB1, SP9, SB2, SP10, SB3, SP11, SB9, SB5 SP13, SB6, SP15, and SP16 to 4 ft & add excavation, backfill w/ caliche, & a cap of top soil; 3 & SB8 -surface scraped. Backfill site w/ clean soil.
Remediation Activities:	02/15/2018 to 0	3/15/2018
Plan Sent to OCD:	10/20/2017	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	10/30/2017	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	10/20/2017	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	10/23/2017	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 08/08/2017
Final C-141	Signed 04/04/2018
Site Diagram	October 2017
Groundwater Plot	125'-150'
TOPO Maps	October 2017
Lab Summary	7/29/17, 8/2/17-8/4/17, 8/7/17-8/8/17, 8/21/17-8/23/17
Lab Analysis	7/29/17, 8/2/17-8/4/17, 8/7/17-8/8/17, 8/21/17-8/23/17
Correspondence	Request and approval of remediation plan via email

Request for Closure

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

Cliff Brunson, President, BBC International, Inc.

04/05/2018

NM OIL CONSERVATION

ARTESIA DISTRICT

AUG	0	8	2017	

Form C-141 Revised August 8, 2011

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

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

State of New Mexico

Energy Minerals and Natural Resources

REGITIVED opy to appropriate District Office in accordance with 19.15.29 NMAC.

Santa Fe, NM 87505

Release Notification and Corrective Action

000 000				~~~~~	
NAB17222	<u>52378</u>		OPERATOR	Initial Report	Final Report
Name of Company:	COG Oper	ating LLC 22413	Contact:	Robert McNeill	
Address: 600 We	st Illinois Avenue, N	Aidland TX 79701	Telephone No.	432-683-7443	
Facility Name: West	Brushy 8 Federal S	WD #001	Facility Type: SWD		
Surface Owner:	Federal	Mineral Owner	2	API No. 30-	015-31675

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<u>A</u>	08	265	29E	660	North	330	East	Eddy

Latitude 32.084544 Longitude -103.980062

NATURE OF RELEASE

Type of Release:		Volume of Release:	Volume Recovered:
	Produced Water	10,235 bbls	0 bbls
Source of Release:		Date and Hour of Occurrence:	Date and Hour of Discovery:
	Flowline	July 27, 2017 10:45 am	July 27, 2017 10:45 am
Was Immediate Notice Giv		If YES, To Whom?	
	Yes 🗋 No 🗖 Not Req	uired Ms. Weaver – NM	IOCD / Shelly Tucker ~ BLM
	Vhom? Rebecca Haskell	Date and Hour: July 27, 2017 2:33	pm
Was a Watercourse Reach		If YES, Volume Impacting the Wi	atercourse.
	🗋 Yes 🖾 No		
If a Watercourse was Impa	cted Describe Fully *		
er a veneren ander veneren anderen ander	and mountain a mill		
Describe Cause of Problem	and Remedial Action Taken.*		
	· · · · · · · · · · · · · · · · · · ·		,
The release was due to a ru	ptured flowline. The rupture was caused	by power failures which caused the West I	Brushy 8 Federal SWD #001 to shut in due to
recent storms.	· ·	••	· · · · · · · · · · · · · · · · · · ·
Describe Area Affected an	d Cleanup Action Taken.*		
The release was within a p	asture. Concho responded immediately to	the release. A contractor placed an emerge	ency one call and Concho requested Arch
Clearance from the BLM, V	When the emergency one call cleared and	the BLM granted Arch Clearance Concho	had the spill area excavated six inches to
one foot in depth to remove	the heavily impacted material. Earthen	berms were installed in multiple areas to pr	otect against forecasted precipitation.
Subsequent to initial respon	nse activities a regular one call was place	d and once cleared delineation activities w	ere initiated. Delineation activities are
currently ongoing. COG w	ill present a remediation work plan to the	NMOCD for approval prior to any signific	ant remediation activities.
I hereby certify that the inf	ormation given above is true and comple	te to the best of my knowledge and underst	and that pursuant to NMOCD rules and
regulations all operators an	e required to report and/or file certain rel	ease notifications and perform corrective a	ctions for releases which may endanger
public health or the enviror	ment. The acceptance of a C-141 report	by the NMOCD marked as "Final Report"	does not relieve the operator of liability
should their operations hav	e failed to adequately investigate and ren	acdiate contamination that pose a threat to	ground water, surface water, human health
or the environment. In add	ition, NMOCD acceptance of a C-141 re	port does not relieve the operator of respon	sibility for compliance with any other
federal, state, or local laws	and/or regulations.		
Signature: Lellec	glaphill	<u>OIL CONSER</u>	VATION DIVISION
Signature: Automa	mannen		J. J.
Printed Name:	Rebecca Haskell	Signed By 🗡	11/4 Drenorselen
Tranco (anic.	Rebecca Hasken	Approved by Environmental Special	51:
feet a		antin	NIN
Title:	Senior HSE Coordinator	Approval Date:	Expiration Date: NIA
	1 1 1 0 1		
E-mail Address:	rhaskeil@concho.com	Conditions of Approval:	Attached the land
D		Sep) attac	had 200 4220
Date: August 8, 2017	Phone: 432-683-7443 Please	ros <u>reputitio</u>	1111 114-750
Attach Additional Sheets	It Necessary Conser	to the M	•
	update	ation Division Mexico	
	http://	refer to the New Mexico Oil Vation Division Website for Ww.empred	
	OCC	WW.em	
	SCD/ for	ns h	
	OCD/ for	form(s) at: <u>ww.emnrd.state.nm.us/</u> <u>Thank</u>	
		Thank you	
		·· 700	

Operator/Responsible Party,

The OCD has received the form C-141 you provided on <u> $\frac{8}{8}/2017$ </u> regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number <u> $\frac{3}{2}\sqrt{9}.4330$ </u> has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District <u>2</u> office in <u>ARTESIA</u> on or before <u>9/8/2017</u>. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

State of New Mexico Energy Minerals and Natural Resources

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

1220 S. St. Fran	cis Dr., Sant	a Fe, NM 87505	5			e, NM 875					
			DI		_						
			Kel	ease Notific	catio		orrective A			_	
						OPERA'		Initia	al Report		Final Repor
		COG Operati		-1 TV 20201			obert McNeill	40			
		Brushy 8 Fe		nd, TX 79701		Facility Typ	No. 432-432-74	43			1
Facinty Na	ne: west	Diusity o re		D#001		Facinty Typ	be: SWD				
Surface Ow	ner: Fede	ral		Mineral (Dwner:			API No). <u>30-015-</u>	31675	
				LOC	атіо	N OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the		1/South Line	Feet from the	East/West Line	County		
	1.1								·		
A	08	26S	29E	660		North	330	East	Eddy Cou	nty, NI	M
]	Latitude <u>N 32.0</u>)8460°	Longitu	ide <u>W 103.9806</u>	51°			
				NT 4 7		OPDEL					
Turne of Dolo	D d			NA1	URE	Volume of		V1	Recovered:		_
Type of Rele	ase: Produ	iced water				10,235 bb		0 bbls	ccovered:		
Source of Re	lease: Flow	wline					lour of Occurrence		Hour of Dis	covery	
							7 @ 10:45 am	07/27/20	17@10:45	am	_
Was Immedi	ate Notice		Vec F] No 🔲 Not R	aquirad	If YES, To		Shelly Tucker, BLN	л		
D. 11/1	Daharan I		1103					÷ .	42		
By Whom? Was a Water							Iour: 07/27/2017 Ioume Impacting				_
TTUD II TTULU	course ree		Yes 🛛	No			oranie impacting	the watercourse.			
If a Waterco	urca was In	pacted, Descr	iba Fully	*							
	vas due to a	lem and Reme a ruptured flov			sed by p	oower failures	which caused the	West Brushy 8 Fee	deral SWD #	#001 to	shut in due
Describe Are	a Affected	and Cleanup	Action Ta	ken.*							_
The release of clearance from were installed	vas within a m the BLM d and delin	a pasture. Con 1. Once these eation was con	ncho respo actions cl mpleted to	onded immediately eared, the spill are establish remedia	ea was (ation pe	excavated six crimeters. Ren	inches to one foot nediation was cor	n emergency one ca to remove the hea npleted in accordat BLM via email on	vily impacte ace with the	d mate remedi	rial. Berms
regulations a public health should their or the enviro	Il operators or the envi operations l nment. In	s are required (ironment. The have failed to	to report a e acceptan adequatel OCD acce	nd/or file certain ce of a C-141 rep y investigate and p	release ort by t remedia	notifications a he NMOCD n ate contaminat	nd perform correct narked as "Final R ion that pose a th	inderstand that pur- ctive actions for rel teport" does not rel reat to ground wate responsibility for c	eases which ieve the ope r, surface wa	may e rator o ater, hu	ndanger f liability man health
	0.1.	91.	1 01				OIL CON	SERVATION	DIVISIO	<u>DN</u>	
Signature:	rebly	a Hass	rell								
Printed Nam	e: Becky H	laskell				Approved by	Environmental S	pecialist:			
Title: Senio	r HSE Cool	rdinator				Approval Da	ite:	Expiration	Date:		
E-mail Addr	ess: rhaske	ell@concho.co	m			Conditions of	f Approval:		Attached		
Date: Apr				ne: (432) 683-744	13				Anacheo		
Attach Add	itional She	eets If Neces	sarv								





COG, West Brushy 8 Line leak

Sample points, hand auger SP1, N 32.08445 W-103.98019 SP2, N 32.08444 W-103.98013 SP3, N 32.08428 W-103.98033 SP4, N 32.08424 W-103.98028 SP5, N 32.08315 W-103.98006 SP6, N 32.08416 W-103.98046 SP7, N 32.08406 W-103.98041 SP8, N 32.08400 W-103.98054 SP9, N 32.08388 W-103.98055 SP10, N 32.08371 W-103.98045 SP11, N 32.08361 W-103.98038 SP12, N 32.08339 W-103.98027 SP13, N 32.08285 W-103.97982 SP14, N 32.08227 W-103.97975 SP15, N 32.08251 W-103.97967 SP16, N 32.08212 W-103.97948 SP17, N 32.08191 W-103.97953 SP18, N 32.08172 W-103.97967 SP19, N 32.08163 W-103.97972 SP20, N 32.08157 W-103.97972 NORTH, N 32.08458 W-103.98006 SOUTH, N 32.08147 W-103.97973 EAST, N 32.08248 W-103.97944 WEST, N 32.08387 W-103.98067 BACKGROUND SAMPLE, N 32.08152 W-103.97973

DRILLING, SOIL BORINGS

SB5, N 32.08316 W-103.98002

SB1, N 32.08400 W-103.98057
SB2, N 32.08389 W-103.98051
SB3, N 32.08372 W-103.98041
SB9, N 32.08361 W-103.98035
SB4, N 32.08340 W-103.98025
SB6, N 32.08283 W-103.97985

SB7, N 32.08192 W-103.97955 SB8, N 32.08173 -103.97969

COG, West Brushy 8 Line leak U/L M, Section 34, T25S, R29E Groundwater: 125'150'



Received by OCD: 9/11/2024 9:31:25 AM

?

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

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 596400

Northing (Y): 3549844

Radius: 1700

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data

7/28/17 10:24 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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UTM Conversion Received by	ocb:	9/11/2024	9:31:25 AM
Acceived by	UUD.	7/11/4044	7.31.43 ANI

O Q64:	Q16: SW Q4: SW	rvey System (PLSS) Sec: 34 Tws: 255 Rng: 29E	
O X: O ft		Jinate System - NAD27 Zone:	
O x: 0 ft		Jinate System - NAD83 Zone:	
O Longitude (X): Latitude (Y):	Degrees: 0 °	inutes/Seconds Minutes: 0 ' Seconds: 0 " Minutes: 0 ' Seconds: 0 "	
O Easting (X): 0	mtrs Northing (Y): 0	Maddan Martin Sone:	
	mtrs Northing (Y): 0	mtrs Zone:	
All	mtrs Northing (Y): 0	mtrs Zone:	
All	mtrs Northing (Y): 0	mtrs Zone:	



COG, West Brushy 8 Line leak

Released to Imaging: 9/11/2024 9:46:24 AM



Laboratory Analytical Results Summary West Brushy 8 Line Leak
--

			Background @							
		sample	@ Surface	, @	@ 2'	@ 3.	@ 4'	0 2. 0		15' (
Analyte	Method	Date	7/29/17	7/29/17	71/29/17	7/29/17	7/29/17	7/29/17	7/29/17	7/29/17
			mg/Kg	mg/Kg	63/6m	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0:050	<0:050	<0.050	<0:050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0:050	<0:050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0:050	<0:050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		32	16	32	32	144	144	16	96
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	13.2	<10.0	<10.0	<10.0

Released to Imaging: 9/11/2024 9:46:24 AM

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		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	8/2/17	8/2/17	8/2/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500CI-B		2120	96	96
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		11.9	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a
					-
			; ()		0.000

		Sample	SP2 @ 1.	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	8/2/17	8/2/17	8/2/17
			by/gm	mg/Kg	mg/Kg
Chloride	SM4500CI-B		2400	80	80

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 9'
Analyte	Method	Date	8/2/17	8/2/17	8/2/17	8/2/17	8/2/17
			mg/Kg	mg/Kg	mg/Kg	63/6m	by/gm
Benzene	BTEX 8021B		<0.050	e/u	n/a	n/a	e/u
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Ethylbenzene BTEX 8021B	BTEX 8021B		<0.050	e/u	n/a	n/a	e/u
Total Xylenes BTEX 8021B	BTEX 8021B		<0.150	e/u	n/a	n/a	e/u
Total BTEX	BTEX 8021B		<0.300	e/u	n/a	n/a	e/u
Chloride	SM4500CI-B		4400	2080	464	128	96
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	e/u	n/a	n/a	e/u
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'	SP4 @ 9'
Analyte	Method	Date	8/2/17	8/2/17	8/2/17	8/3/17	8/3/17
			mg/Kg	mg/Kg	mg/Kg	63/6m	gy/gm

			0400	7000	140	6	4δ		
		Sample	Sample SP5 @ 2'	SP5 @ 4'	SP5 @ 7'	SP5 @ 10'	SP5@10' SP5@13'	SP5 @ 16'	SP5 @ 18'
Analyte Met	Method	Date	8/3/17	8/3/17	8/3/17	8/3/17	8/3/17	8/3/17	8/3/17
			mg/Kg	mg/Kg	by/bm	mg/Kg	mg/Kg	by/gm	mg/Kg
Chloride SM45	SM4500CI-B		7760	5680	4480	0009	3440	5120	10700

		Sample	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'	SP6 @ 9'
Analyte	Method	Date	8/3/17	8/3/17	8/3/17	8/3/17	8/3/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Ethylbenzene BTEX 8021B	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Total Xylenes BTEX 8021B	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		2880	2760	672	48	32
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

																									SP11 @ 17'	8/7/17	mg/Kg	416															
				SD8 @ 18'		8/4/17	mg/Kg 11500		SP9 @ 18'	8/4/17	mg/Kg	n/a	n/a	n/a	n/a	n/a 752	1.72	n/a	۵/11 م/11	11/3					SP11 @ 16'	8/7/17	mg/Kg	528	SP12 @ 18'	8/7/17	mg/Kg	0000	SP13 @ 18'	8/7/17	mg/Kg	n/a	n/a	n/a	n/a	n/a	0007	e/u	n/a
				SD8 @ 15'		8/4/17	mg/Kg 10700		SP9 @ 17'	8/4/17	mg/Kg	n/a	n/a	n/a	n/a	n/a 720	n/a	n/a	n/a	11/4	SP10 @ 18'	8/4/17	mg/Kg	11300	SP11@15	8/7/17	mg/Kg	528	SP12 @ 15'	8/7/17	mg/Kg	00001	SP13 @ 15'	8/7/17	mg/Kg	n/a	n/a	n/a	n/a	n/a		n/a	n/a
SP7 @ 9'	8/4/17	mg/Kg	32	SD8 @ 12		8/4/17	mg/Kg 11500		SP9 @ 15'	8/4/17	mg/Kg	n/a	n/a	n/a	n/a	n/a 704	6/u	n/a	n/a	IIIa	SP10 @ 15'	8/4/17	mg/Kg	10400	SP11 @ 14'	8/7/17	mg/Kg	560	SP12 @ 12'	8/7/17	mg/Kg 4560	2021	SP13 @ 12'	8/7/17	mg/Kg	n/a	n/a	n/a	n/a	n/a	304U	n/a	n/a
SP7 @ 4'	8/4/17	mg/Kg	48	SD8 @ 0'		8/4/17	mg/Kg 12800		SP9 @ 12'	8/4/17	mg/Kg	n/a	n/a	n/a	n/a	n/a 1330	e/u	n/a	р/п 1	11/3	SP10@12	8/4/17	mg/Kg	10100	SP11 @ 12'	8/7/17	mg/Kg	10300	SP12 @ 9'	8/7/17	mg/Kg		SP13 @ 9'	8/7/17	mg/Kg	n/a	n/a	n/a	n/a	n/a	0000 D/a	n/a	n/a
SP7 @ 3'	84/17	mg/Kg	864	SD8 @ 6'	5	8/4/17	mg/Kg 10700		8 @ 6dS	8/4/17	mg/Kg	n/a	n/a	n/a	n/a	n/a 8660	0/a	n/a	n/a	11/4	SP10@8'	8/4/17	mg/Kg	8930	SP11@8'	8/7/17	mg/Kg	6000	SP12@5	8/7/17	mg/Kg		SP13@6'	8/7/17	mg/Kg	n/a	n/a	n/a	n/a	n/a	4 200	n/a	n/a
SP7 @ 2'	8/4/17	mg/Kg	3640	SD8 @ 3'		8/4/17	mg/Kg 12900		SP9 @ 4'	8/4/17	mg/Kg	n/a	n/a	n/a	n/a	17600	e/u	n/a	5/U	11/3	SP10 @ 4'	8/4/17	mg/Kg	9600	SP11 @ 4'	8/7/17	mg/Kg	14200	SP12 @ 3'	8/7/17	mg/Kg	2000	SP13 @ 3'	8/7/17	mg/Kg	n/a	n/a	n/a	n/a	n/a	00/01	n/a	n/a
SP7 @ 1'	8/4/17	mg/Kg	6160	SD8 @ 1'		8/4/17	mg/Kg 11900		SP9 @ 1'	8/4/17	mg/Kg	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	×10.0	SP10@1	8/4/17	mg/Kg	5440	SP11 @ 1	8/7/17	mg/Kg	9600	SP12 @ 1.	8/7/17	mg/Kg	2000	SP13@1	8/7/17	mg/Kg	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0 <10.0	<10.0	<10.0
Sample	Date			Samolo		Date			Sample	Date											Sample	Date			Sample	Date			Sample	Date			Sample	Date									
	Method		SM4500CI-B		Madhad	Method	SM4500CI-B	1		Method		BTEX 8021B	BTEX 8021B	BTEX 8021B	BTEX 8021B	BTEX 8021B	TPH 8015M	TPH 8015M	TPH 8015M			Method		SM4500CI-B		Method		SM4500CI-B		Method	SMAFOOCLE			Method		BTEX 8021B	BTEX 8021B	BTEX 8021B	BTEX 8021B	BTEX 8021B	TPH 8015M	TPH 8015M	TPH 8015M
	Analyte		Chloride			Analyte	Chloride			Analyte				Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO			Analyte		Chloride		Analyte		Chloride		Analyte	Chlorida	2010		Analyte		Benzene	Toluene	Ethylbenzene	es	Total BTEX	GRO		EXT DRO

SP11 @ 18'

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mg/Kg 64

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Laboratory Analytical Results Summary West Brushy 8 Line leak

		Sample	SP14 @ 1'	SP14 @ 3'	SP14 @ 4'	SP14 @ 9'	SP14 @ 14'			
Analyte	Method	Date	8/7/17	8/7/17	8/7/17	8/7/17	8/7/17			
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg			
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a			
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a			
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a			
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a			
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a			
Chloride	SM4500CI-B		10700	7330	64	80	80			
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a			
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a			
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a			
		Sample	SP15@1'	SP15@3'	SP15@5'	SP15 @ 9'	SP15 @ 12'	SP15@ 15'	SP15 @ 16'	SP15 @ 17'
Analyte	Method	Date	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	by/gm	mg/Kg
Chloride	SM4500CI-B		0096	8800	8800	8530	6530	960	1300	464
		Sample	SP16@1'	SP16@3'	SP16@5'	SP16 @ 9'	SP16 @ 12'	SP16@14'	SP16 @ 15'	SP16@18'
Analyte	Method	Date	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	_		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
es			<0.150	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a	n/a
ride	SM4500CI-B		9330	10800	10500	8130	608	1220	64	48
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		Sample	SP17 @ 1'	SP17 @ 2'	SP17@3'	SP17 @ 5'	SP17 @ 7'	SP17 @ 8'	SP17 @ 13'	SP17 @ 18'

SP15 @ 17' SP15 @ 18'

mg/Kg 160 8/8/17

Chloride	SM4500CI-B		96	112	128	128	160	32	16	<16.0
		Sample	SP18 @ 1.	SP18 @ 2'	SP18 @ 3'	SP18 @ 5'	SP18 @ 7'	SP18 @ 8'	SP18 @ 13'	SP18 @ 18'
Analyte	Method	Date	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17
			mg/Kg	by/gm	63/6m	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0:050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene BTEX 8021B	BTEX 8021B		<0:050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes BTEX 8021B	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		112	96	112	160	128	32	16	32
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	e/u	e/u	n/a	a/n	n/a	e/u	n/a

8/8/17 mg/Kg

8/8/17 mg/Kg

8/8/17 mg/Kg

8/8/17 mg/Kg

8/8/17 mg/Kg

mg/Kg 8/8/17

8/8/17 mg/Kg

8/8/17 mg/Kg

Date

Method

Analyte

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		Sample	SP19 @ SURFACE	SP19 @ 5'	SP19 @ 10'
Analyte	Method	Date	8/8/17	21/8/8	8/8/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0:050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0:050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500CI-B		32	<16.0	<16.0
GRO	TPH 8015M		<10.0	n/a	u/a
DRO	TPH 8015M		<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a
		Sample	SP20 @ SURFACE	SP20 @ 5'	SP20 @ 10'

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		Sample	SURFACE	SP20 @ 5'	SP20 @ 5' SP20 @ 10'
Analyte	Method	Date	8/8/17	8/8/17	8/8/17
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		<16.0	<16.0	<16.0
		Comple	NORTH		

EAST @	0		
80		SM4500CI-B	Chloride
mg/Kg			
8/8/17	Date	Method	Analyte
SURFACE	Sample		

8/8/17	Date	Method	Analyte
WEST @ SURFACE	Sample		
64		SM4500CI-B	Chloride
mg/Kg			
8/8/17	Date	Method	Analyte
EAST @ SURFACE	Sample		

			mg/Kg
Chloride	SM4500CI-B		48
		Sample	SOUTH @ SURFACE
Analyte	Method	Date	8/8/17
			mg/Kg
Chloride	SM4500CI-B		64

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Analyte Analyte Analyte Analyte SM Chloride SM Analyte Analyte Analyte Analyte I Analyte I Analyte I I	Method SM4500CHB Method SM4500CHB	Date	8/21/17	8/21/17								
	4500CFB			11170	8/21/17	8/21/17	8/21/17	8/21/17				
	Method 14500CI-B		mg/Kg 1600	mg/Kg 704	mg/Kg 192	mg/Kg 144	mg/Kg 192	mg/Kg 112				
9 9	Method 14500CLB								_			
g g	Method 14500CI-B	Sample	SB2 @ 20'	SB2 @ 22'	SB2 @ 25'	SB2 @ 30'	SB2 @ 35'	SB2 @ 40'	SB2 @ 45'	SB2 @ 50'	SB2 @ 55'	SB2 (
	14500CI-B	Date	8/21/17	8/21/17	8/21/17	8/21/17	8/21/17	8/21/17	8/21/17	8/21/17	8/21/17	8/21
٩	14500CFB		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg
			5730	4660	1170	448	112	960	528	8	112	•
									-			
		Sample	SB3 @ 20'	SB3 @ 22'	SB3 @ 25'	SB3 @ 30'	SB3 @ 35'	SB3 @ 40'				
	Method	Date	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17				
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg				
Chloride SM	SM4500CI-B		704	480	32	32	32	48				
-	-											
		Sample	SB4 @ 20'	SB4 @ 22'	SB4 @ 25'	SB4 @ 30'	SB4 @ 35'					
Analyte	Method	Date	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17					
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg					
Chloride SM	SM4500CI-B		1480	64	32	64	32					
	-											
		Sample	SB5 @ 20'	SB5 @ 22'	SB5 @ 25'	SB5 @ 30'	SB5 @ 35'	SB5 @ 40'	SB5 @ 45'	SB5 @ 50'		
Analyte	Method	Date	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17		
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg		
Chloride SM	SM4500CI-B		5520	7860	6260	240	64	128	64	48		
		Sample	SB6 @ 20'	SB6 @ 22'	SB6 @ 25'	SB6 @ 30'	SB6 @ 35'	SB6 @ 40'	SB6 @ 45'	SB6 @ 50'	SB6 @ 55'	
Analyte	Method	Date	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Chloride SM	SM4500CI-B		64	176	144	96	160	16	96	32	48	
										_		
		Sample	SB7 @ 20'	SB7 @ 25'	SB7 @ 30'	SB7 @ 35'	SB7 @ 40'	SB7 @ 45'	SB7 @ 50'			
Analyte	Method	Date	8/22/17	8/22/17	8/22/17	8/23/17	8/23/17	8/23/17	8/23/17			
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg			
Chloride SM	SM4500CI-B		80	32	16	64	32	32	48			
		Sample	SB8 @ 20'	SB8 @ 25'	SB8 @ 30'	SB8 @ 35'	SB8 @ 40'	SB8 @ 45'	SB8 @ 50'			
Analyte	Method	Date	8/22/17	8/22/17	8/22/17	8/23/17	8/23/17	8/23/17	8/23/17			
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg			
Chloride SM	SM4500CI-B		48	32	16	64	64	32	32			

SB2 @ 65'

.09 @

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8/21/17 mg/Kg 192

> g/Kg 96

SB9 @ 40'

SB9 @ 35'

SB9 @ 30'

SB9 @ 25'

SB9 @ 23'

SB9 @ 20'

Sample Date

103/1

ng/Kg 80

ng/Kg 128

8/23/17 mg/Kg 96

mg/Kg

mg/Kg 96

8/23/17 mg/Kg 4240

Method SM4500CFB

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Analyte Chloride



August 01, 2017

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

RE: WEST BRUSHY 8 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 07/31/17 11:30.

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:	07/31/2017	Sampling Date:	07/29/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: BACKGROUND @ SURFACE (H701986-01)

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	07/31/2017	ND	2.13	107	2.00	0.340	
Toluene*	<0.050	0.050	07/31/2017	ND	1.98	99.1	2.00	0.837	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	2.07	104	2.00	0.0768	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.23	104	6.00	0.614	
Total BTEX	<0.300	0.300	07/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 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	32.0	16.0	07/31/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/31/2017	ND	184	91.8	200	0.132	
DRO >C10-C28	<10.0	10.0	07/31/2017	ND	187	93.7	200	1.30	
Surrogate: 1-Chlorooctane	76.8 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	77.9	% 34.7-15	_						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/31/2017	Sampling Date:	07/29/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: BACKGROUND @ 1 (H701986-02)

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	07/31/2017	ND	2.13	107	2.00	0.340	
Toluene*	<0.050	0.050	07/31/2017	ND	1.98	99.1	2.00	0.837	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	2.07	104	2.00	0.0768	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.23	104	6.00	0.614	
Total BTEX	<0.300	0.300	07/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 72-148	2						
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	07/31/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/31/2017	ND	184	91.8	200	0.132	
DRO >C10-C28	<10.0	10.0	07/31/2017	ND	187	93.7	200	1.30	
Surrogate: 1-Chlorooctane	84.1 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.2 9	34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/31/2017	Sampling Date:	07/29/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: BACKGROUND @ 2 (H701986-03)

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	07/31/2017	ND	2.13	107	2.00	0.340	
Toluene*	<0.050	0.050	07/31/2017	ND	1.98	99.1	2.00	0.837	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	2.07	104	2.00	0.0768	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.23	104	6.00	0.614	
Total BTEX	<0.300	0.300	07/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	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	32.0	16.0	07/31/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/31/2017	ND	184	91.8	200	0.132	
DRO >C10-C28	<10.0	10.0	07/31/2017	ND	187	93.7	200	1.30	
Surrogate: 1-Chlorooctane	88.6 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	86.2 9	34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/31/2017	Sampling Date:	07/29/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: BACKGROUND @ 3 (H701986-04)

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	07/31/2017	ND	2.13	107	2.00	0.340	
Toluene*	<0.050	0.050	07/31/2017	ND	1.98	99.1	2.00	0.837	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	2.07	104	2.00	0.0768	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.23	104	6.00	0.614	
Total BTEX	<0.300	0.300	07/31/2017	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	32.0	16.0	07/31/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/31/2017	ND	184	91.8	200	0.132	
DRO >C10-C28	<10.0	10.0	07/31/2017	ND	187	93.7	200	1.30	
Surrogate: 1-Chlorooctane	83.1	28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.9	% 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/31/2017	Sampling Date:	07/29/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: BACKGROUND @ 4 (H701986-05)

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	07/31/2017	ND	2.13	107	2.00	0.340	
Toluene*	<0.050	0.050	07/31/2017	ND	1.98	99.1	2.00	0.837	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	2.07	104	2.00	0.0768	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.23	104	6.00	0.614	
Total BTEX	<0.300	0.300	07/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	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	144	16.0	07/31/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/31/2017	ND	184	91.8	200	0.132	
DRO >C10-C28	13.2	10.0	07/31/2017	ND	187	93.7	200	1.30	
Surrogate: 1-Chlorooctane	88.6 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.8 9	34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	07/31/2017	Sampling Date:	07/29/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: BACKGROUND @ 5 (H701986-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2017	ND	2.13	107	2.00	0.340	
Toluene*	<0.050	0.050	07/31/2017	ND	1.98	99.1	2.00	0.837	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	2.07	104	2.00	0.0768	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.23	104	6.00	0.614	
Total BTEX	<0.300	0.300	07/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	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	144	16.0	07/31/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/31/2017	ND	184	91.8	200	0.132	
DRO >C10-C28	<10.0	10.0	07/31/2017	ND	187	93.7	200	1.30	
Surrogate: 1-Chlorooctane	83.6 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	81.1 9	34.7-15	7						

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Received:	07/31/2017	Sampling Date:	07/29/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: BACKGROUND @ 10 (H701986-07)

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	07/31/2017	ND	2.13	107	2.00	0.340	
Toluene*	<0.050	0.050	07/31/2017	ND	1.98	99.1	2.00	0.837	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	2.07	104	2.00	0.0768	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.23	104	6.00	0.614	
Total BTEX	<0.300	0.300	07/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	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	16.0	16.0	07/31/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/31/2017	ND	184	91.8	200	0.132	
DRO >C10-C28	<10.0	10.0	07/31/2017	ND	187	93.7	200	1.30	
Surrogate: 1-Chlorooctane	86.2 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.0 9	34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	07/31/2017	Sampling Date:	07/29/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: BACKGROUND @ 15 (H701986-08)

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	07/31/2017	ND	2.13	107	2.00	0.340	
Toluene*	<0.050	0.050	07/31/2017	ND	1.98	99.1	2.00	0.837	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	2.07	104	2.00	0.0768	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.23	104	6.00	0.614	
Total BTEX	<0.300	0.300	07/31/2017	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	96.0	16.0	07/31/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/31/2017	ND	184	91.8	200	0.132	
DRO >C10-C28	<10.0	10.0	07/31/2017	ND	187	93.7	200	1.30	
Surrogate: 1-Chlorooctane	72.7 9	28.3-16-	4						
Surrogate: 1-Chlorooctadecane	72.9 9	34.7-15	7						

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Notes and Definitions

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

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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August 11, 2017

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

RE: WEST BRUSHY 8 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 08/07/17 17:05.

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:	08/07/2017	Sampling Date:	08/02/2017
Reported:	08/11/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MALAGA, NM		

Sample ID: SP1 @ 1' (H702069-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/10/2017	ND	2.03	102	2.00	1.52	
Toluene*	<0.050	0.050	08/10/2017	ND	1.88	94.1	2.00	0.520	
Ethylbenzene*	<0.050	0.050	08/10/2017	ND	1.93	96.7	2.00	0.352	
Total Xylenes*	<0.150	0.150	08/10/2017	ND	5.84	97.4	6.00	0.213	
Total BTEX	<0.300	0.300	08/10/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	2120	16.0	08/08/2017	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	08/08/2017	ND	171	85.5	200	1.47	
DRO >C10-C28	11.9	10.0	08/08/2017	ND	177	88.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	08/08/2017	ND					
Surrogate: 1-Chlorooctane	91.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.7	% 34.7-15	7						

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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:	08/07/2017	Sampling Date:	08/02/2017
Reported:	08/11/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MALAGA, NM		

Sample ID: SP1 @ 2' (H702069-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/08/2017	ND	432	108	400	0.00	

Sample ID: SP1 @ 3' (H702069-03)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/08/2017	ND	432	108	400	0.00	

Sample ID: SP2 @ 1' (H702069-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	08/08/2017	ND	432	108	400	0.00	

Sample ID: SP2 @ 2' (H702069-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/08/2017	ND	432	108	400	0.00	

Sample ID: SP2 @ 3' (H702069-06)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/08/2017	ND	432	108	400	0.00	

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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:	08/07/2017	Sampling Date:	08/02/2017
Reported:	08/11/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MALAGA, NM		

Sample ID: SP3 @ 1' (H702069-07)

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	08/10/2017	ND	2.03	102	2.00	1.52	
Toluene*	<0.050	0.050	08/10/2017	ND	1.88	94.1	2.00	0.520	
Ethylbenzene*	<0.050	0.050	08/10/2017	ND	1.93	96.7	2.00	0.352	
Total Xylenes*	<0.150	0.150	08/10/2017	ND	5.84	97.4	6.00	0.213	
Total BTEX	<0.300	0.300	08/10/2017	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	4400	16.0	08/08/2017	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	08/08/2017	ND	171	85.5	200	1.47	
DRO >C10-C28	<10.0	10.0	08/08/2017	ND	177	88.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	08/08/2017	ND					
Surrogate: 1-Chlorooctane	86.1	% 28.3-16-	4						
Surrogate: 1-Chlorooctadecane	81.2	% 34.7-15	7						

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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:	08/07/2017	Sampling Date:	08/02/2017
Reported:	08/11/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MALAGA, NM		

Sample ID: SP3 @ 2' (H702069-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	08/08/2017	ND	432	108	400	0.00	

Sample ID: SP3 @ 3' (H702069-09)

Chloride, SM4500Cl-B	hloride, SM4500Cl-B mg/kg					Analyzed By: AC			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/08/2017	ND	432	108	400	0.00	

Sample ID: SP3 @ 4' (H702069-10)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/08/2017	ND	432	108	400	0.00	

Sample ID: SP3 @ 9' (H702069-11)

Chloride, SM4500Cl-B	, SM4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/08/2017	ND	432	108	400	0.00	

Sample ID: SP4 @ 1' (H702069-12)

Chloride, SM4500Cl-B	mg/	kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	08/08/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	08/07/2017	Sampling Date:	08/02/2017
Reported:	08/11/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MALAGA, NM		

Sample ID: SP4 @ 2' (H702069-13)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	08/08/2017	ND	432	108	400	0.00	

Sample ID: SP4 @ 3' (H702069-14)

Chloride, SM4500Cl-B	hloride, SM4500Cl-B mg/kg					Analyzed By: AC			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	08/08/2017	ND	432	108	400	0.00	

Sample ID: SP4 @ 4' (H702069-15)

Chloride, SM4500Cl-B	SM4500Cl-B mg/kg				Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2017	ND	432	108	400	0.00	

Sample ID: SP4 @ 9' (H702069-16)

Chloride, SM4500Cl-B	ride, SM4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2017	ND	432	108	400	0.00	

Sample ID: SP5 @ 2' (H702069-17)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7760	16.0	08/08/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager


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Received:	08/07/2017	Sampling Date:	08/03/2017
Reported:	08/11/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MALAGA, NM		

Sample ID: SP5 @ 4' (H702069-18)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	08/08/2017	ND	464	116	400	0.00	QM-07

Sample ID: SP5 @ 7' (H702069-19)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	08/08/2017	ND	464	116	400	0.00	

Sample ID: SP5 @ 10' (H702069-20)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	08/08/2017	ND	464	116	400	0.00	

Sample ID: SP5 @ 13' (H702069-21)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	08/08/2017	ND	464	116	400	0.00	

Sample ID: SP5 @ 16' (H702069-22)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	08/08/2017	ND	464	116	400	0.00	

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Received:	08/07/2017	Sampling Date:	08/03/2017
Reported:	08/11/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MALAGA, NM		

Sample ID: SP5 @ 18' (H702069-23)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	08/08/2017	ND	464	116	400	0.00	

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Received:	08/07/2017	Sampling Date:	08/03/2017
Reported:	08/11/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MALAGA, NM		

Sample ID: SP6 @ 1' (H702069-24)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2017	ND	2.03	102	2.00	1.52	
Toluene*	<0.050	0.050	08/10/2017	ND	1.88	94.1	2.00	0.520	
Ethylbenzene*	<0.050	0.050	08/10/2017	ND	1.93	96.7	2.00	0.352	
Total Xylenes*	<0.150	0.150	08/10/2017	ND	5.84	97.4	6.00	0.213	
Total BTEX	<0.300	0.300	08/10/2017	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	2880	16.0	08/08/2017	ND	464	116	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	08/08/2017	ND	171	85.5	200	1.47	
DRO >C10-C28	<10.0	10.0	08/08/2017	ND	177	88.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	08/08/2017	ND					
Surrogate: 1-Chlorooctane	95.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	94.5	% 34.7-15	7						

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Received:	08/07/2017	Sampling Date:	08/03/2017
Reported:	08/11/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MALAGA, NM		

Sample ID: SP6 @ 2' (H702069-25)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	08/08/2017	ND	464	116	400	0.00	

Sample ID: SP6 @ 3' (H702069-26)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	08/08/2017	ND	464	116	400	0.00	

Sample ID: SP6 @ 4' (H702069-27)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2017	ND	464	116	400	0.00	

Sample ID: SP6 @ 9' (H702069-28)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/08/2017	ND	464	116	400	0.00	

Sample ID: SP7 @ 1' (H702069-29)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	08/08/2017	ND	464	116	400	0.00	

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

Received:	08/07/2017	Sampling Date:	08/04/2017
Reported:	08/11/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MALAGA, NM		

Sample ID: SP7 @ 2' (H702069-30)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	08/08/2017	ND	464	116	400	0.00	

Sample ID: SP7 @ 3' (H702069-31)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	08/08/2017	ND	464	116	400	0.00	

Sample ID: SP7 @ 4' (H702069-32)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2017	ND	464	116	400	0.00	

Sample ID: SP7 @ 9' (H702069-33)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/08/2017	ND	464	116	400	0.00	

Sample ID: SP8 @ 1' (H702069-34)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11900	16.0	08/08/2017	ND	464	116	400	0.00	

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

Received:	08/07/2017	Sampling Date:	08/04/2017
Reported:	08/11/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MALAGA, NM		

Sample ID: SP8 @ 3' (H702069-35)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12900	16.0	08/08/2017	ND	464	116	400	0.00	

Sample ID: SP8 @ 6' (H702069-36)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	08/08/2017	ND	464	116	400	0.00	

Sample ID: SP8 @ 9' (H702069-37)

Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	08/08/2017	ND	464	116	400	0.00	

Sample ID: SP8 @ 12' (H702069-38)

Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	08/08/2017	ND	464	116	400	7.14	QM-07

Sample ID: SP8 @ 15' (H702069-39)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	08/08/2017	ND	464	116	400	7.14	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	08/07/2017	Sampling Date:	08/04/2017
Reported:	08/11/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MALAGA, NM		

Sample ID: SP8 @ 18' (H702069-40)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	08/08/2017	ND	464	116	400	7.14	

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Received:	08/07/2017	Sampling Date:	08/04/2017
Reported:	08/11/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MALAGA, NM		

Sample ID: SP9 @ 1' (H702069-41)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2017	ND	2.03	102	2.00	1.52	
Toluene*	<0.050	0.050	08/10/2017	ND	1.88	94.1	2.00	0.520	
Ethylbenzene*	<0.050	0.050	08/10/2017	ND	1.93	96.7	2.00	0.352	
Total Xylenes*	<0.150	0.150	08/10/2017	ND	5.84	97.4	6.00	0.213	
Total BTEX	<0.300	0.300	08/10/2017	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	13900	16.0	08/08/2017	ND	464	116	400	7.14	
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	08/08/2017	ND	171	85.5	200	1.47	
DRO >C10-C28	<10.0	10.0	08/08/2017	ND	177	88.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	08/08/2017	ND					
Surrogate: 1-Chlorooctane	93.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.9	% 34.7-15	7						

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Received:	08/07/2017	Sampling Date:	08/04/2017
Reported:	08/11/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MALAGA, NM		

Sample ID: SP9 @ 4' (H702069-42)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17600	16.0	08/08/2017	ND	464	116	400	7.14	

Sample ID: SP9 @ 8' (H702069-43)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	08/08/2017	ND	464	116	400	7.14	

Sample ID: SP9 @ 12' (H702069-44)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	08/08/2017	ND	464	116	400	7.14	

Sample ID: SP9 @ 15' (H702069-45)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/08/2017	ND	464	116	400	7.14	

Sample ID: SP9 @ 17' (H702069-46)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	08/08/2017	ND	464	116	400	7.14	

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Received:	08/07/2017	Sampling Date:	08/04/2017
Reported:	08/11/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MALAGA, NM		

Sample ID: SP9 @ 18' (H702069-47)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	08/08/2017	ND	464	116	400	7.14	

Sample ID: SP10 @ 1' (H702069-48)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	08/08/2017	ND	464	116	400	7.14	

Sample ID: SP10 @ 4' (H702069-49)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	08/08/2017	ND	464	116	400	7.14	

Sample ID: SP10 @ 8' (H702069-50)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8930	16.0	08/08/2017	ND	464	116	400	7.14	

Sample ID: SP10 @ 12' (H702069-51)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10100	16.0	08/08/2017	ND	464	116	400	7.14	

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Received:	08/07/2017	Sampling Date:	08/04/2017
Reported:	08/11/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MALAGA, NM		

Sample ID: SP10 @ 15' (H702069-52)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	08/08/2017	ND	464	116	400	7.14	

Sample ID: SP10 @ 18' (H702069-53)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11300	16.0	08/08/2017	ND	464	116	400	7.14	

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

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(505) 393-2326 FAX (505) 393-2476								
Company Name: BBC International, Inc.		BILL	. 10			AN	ANALYSIS REQUESI	
		P.O. #:		_	_			
Address: P.O. Box 805		Company:	UG			_		_
bbs State: NM	Zip: 88241	Attn: KeChu	Hashau					
5-397-6388 Fax #:	575-397-0397	Address:						
Project #: Project Owner:	(WG	City:			_			
ame: West Brushy 8 line le		State: Z	Zip:	_				
Project Location: Eddy County, NM		Phone #:						
Sampler Name: Jeff Ornelas		Fax #:		_	-	1		
	MATRIX	PRESERV.	SAMPLING		YT			
Lab I.D. Sample I.D.	AB OR (C)OM NTAINERS JNDWATER TEWATER	DGE ER : /BASE: COOL ER :		C(BTEX	PH E		
H 700000 SP1@1	— # (GF		8/2/17 1:11 PM	<	<	<		
5• SP1 @ 2'	01	V 8	8/2/17 1:25 PM	<				
-	G I V	× ~	8/2/17 1:40 PM	V V				
1	61 1	<	8/2/17 1:49 PM	V V				
•	GIV	<	8/2/17 1:59 PM	V				
6 • SP2 @ 3'	61 1	<		×	-	1		
7 • SP3 @ 1'	G I V			~	<	<		
SP3 @ 2'	61 1	<		<				
9 • SP3 @ 3'	G I V	<	0/2/11 3.0/ PM	<				
/0 • SP3 @ 4'		ntract or tort, shall be limited to	nount paid	d for the				
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Relinquished By: Date: 4/17	Received By:		Phone Result: Fax Result:	Result: sult:	□ Yes	I No Ac	Add'I Phone #: Add'I Fax #:	
Vst/1) (Mala S Time 2000	2	4	REMARKS:	RKS:	-	1	X	
Relinquished By Date:	Received B	- M	1	0	0	Luc	rorl	
Time-ass	Jamak	A LUNDAR CHECKED BY:	SO BY:					
Delivered By: (Circle One) 342		-	als)					
Sampler - UPS - Bus - Other: Corrected 3.650	3. WE HAR HAR	No TO.7	SLA					
† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	fax written changes	to 505-393-2476						

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10	(505) 303-3396 FAX (505) 393-2476	6			
Company Name:	BBC International, Inc.		BILL TO		ANALYSIS REQUEST
	Cliff Brunson		P.O. #:		
Address: P.O. B	Box 805		Company:	<u>, 11</u>	
city: Hobbs	State: NM	Zip: 88241	Attn: BECKY HAY	GUL	
Phone #: 575-397-6388	Fax #:	575-397-0397	Address:		
Project #:	Project Owner:	r (106	City:		
Project Name: We	Project Name: West Brushy 8 line leak		State: Zip:		
Project Location:	Eddy County, NM		Phone #:		
Sampler Name:	Jeff Ornelas		1		
FOR LAB USE ONLY			PRESERV	2	
Lab I.D.	Sample I.D.	G)RAB OR (C)OM CONTAINERS GROUNDWATER VASTEWATER SOIL DIL SLUDGE	DTHER : ACID/BASE: ICE / COOL OTHER :	C (
	SP3 @ 9'	<	~	3:33 PM 🖌	
12. 5	SP4 @ 1'	6 - 1	V 8/2/17	-	
200	SP4 @ 2'		V 0/2/11		
,4 · S	SP4 @ 3'	0 1	V 0/1/1	V NU LAN	
5.	SP4 @ 4'	GIV	V 8/3/17	9:49 AM	
16 • 0	SP4 @ 9'	6- 1	V 8/3/17	10:09 AM	
2.	SP5 @ 2'	6 1 2	V 8/3/17	10:38 AM	
. 8	SP5 @ 4'	6-	J 8/3/17	10:58 AM 🗸	
•	SP5 @ 7'	6 - ~	V 8/3/17	11:19 AM	
w.	Q	-	✓ 8/3/17	11:29 AM V	
PLEASE NOTE: Liability and Damages. Cardinat's liab analyses. As claims including those for negligence and	any other	r any claim arising whether based in core to deemed waived unless made in writing tog without irritation, business interruptio	eards exclusive remody for any claim arising whether based in contrast or too, since or mounds on one work on the second of the applicable cuase whatsoever shall be deemed waved unless mode in whiting and necessed by Cardinal within 30 days after completion of the applicable countrat damages, houdran without instation, business interruptions, loss of use, or loss of profits incurred by clard, its subsistantes,	r completion of the applicable r client, its subsidiaries.	
affiliates or successors arising out of or related to the perf Relinquished By:	ormance of services h	Received By:	im is based upon any of the above stated r	Phone Result: Ves	No Add'l Phone #:
2 LAPArial	Time: 2/1/1/	F	1		•
Relinquished By:	2	Received By:	(MLI)	Clon	ely Kurr
1		Samole Con	THION CHECKED BY:		
Delivered By: (Circle One)	(Circle One) 3.42	Cool Intact	-	1	
Sampler - UPS - Bus - Other:	Bus . Other: Obracted	5.65 The INO NO	No TR. #75		
† Cardinal c	Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	se fax written changes	to 505-393-2476		

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101 East Marland, Hobbs, NM 88240

(505) 393-2326	(505) 393-2326 FAX (505) 393-2476			
Company Name: BBC International, Inc.	itional, Inc.	BILL TO		ANALYSIS REQUEST
	D	P.O. #:		
Address: P.O. Box 805		Company:		
city: Hobbs	State: NM Zip: 88241	Attn: BRUCH Hasle	Sur Contraction	
Phone #: 575-397-6388	Fax #: 575-397-0397	Address:		
Project #:	Project Owner:	City:		
Project Name: West Brushy 8 line leak	line leak	State: Zip:		
Project Location: Eddy County, NM	, NM	Phone #:		
sampler Name: Jeff Ornelas		1		
	MP.	PRESERV. SAMPLING		
Lab I.D. Samp	G(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	m	TIME C(BTEX TPH EX	
21 · SP5 @ 13'	-		11:37 AM 🗸	
	6 - 1		11:43 AM 🗸	
23 • SP5 @ 18'	6 - 1	V 8/3/17	11:55 AM V	
	6- 1		1:20 PM V V V	
•	6-		1:30 PM 🗸	
	6		1:47 PM 🗸	
•	GIV	J 8/3/17	1:55 PM 🗸	
25 • SP6 @ 9'	6 -		2:22 PM 🗸	
•	GIV		8:51 AM 🗸	
•	GIU	V 8/4/17	9:01 AM	
PLEASE NOTE: Liability and Damages. Cardinal's liability and cli analyses. All claims including those for negligence and any other analyses. All claims including those for negligence and any other	any and clents exclusive remoty for any claim atteing whether based in contradic or ion, takes are instead on time enrowing you work no use any other cause whatsoever shall be deemed waived unless make in writing and received by Castrinal within 30 days. Bith completion of the applicable all or consequential demages, including velocit imitation, business interruptions, loss of use, or loss of profits incurred by claim, it is subsidiarities,	ntradt or tort, strate be limited to the environm perior og and received by Cardinal within 30 days after jons, loss of use, or loss of profits incurred by d	r completion of the applicable client, its subsidiaries.	
affisies or successors arising out of or related to the performant Refine the second	Date:/	tain is based upon any of the above stated rea	III: TYes	No Add' Phone #:
Soluver	The	l		
Relinquished By	1 7	ON KO	Ol only	J Kelsen
	Time: 05 UNUMA K	ndition CHECKEDBY:		
Sampler - IIPS - Bus - Other	Dife A Dave	1	,	
Antibust at a	Connected Die C No	No 1-71 -		
† Cardinal cannot accept v	Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	to 505-393-2476		

Page 21 of 24

Page 22 of 24

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

	(505) 393-2326 FAX (505) 393-2476	76					
Company Name:	BBC International, Inc.		BILL TO			ANALYSIS REQUEST	
Project Manager:			P.O. #:				
Address: P.O.	Box 805		company: (000				
city: Hobbs	State: NM	zip: 88241	Attn: 12014 Has	Kell	_		
#	575-397-6388 Fax #: 57	575-397-0397	Address: J				
Project #:	Project Owner:	ar: (06	City:		_		
Project Name: V	Project Name: West Brushy 8 line leak		State: Zip:		_		
Project Location:	1: Eddy County, NM		Phone #:		_		
Sampler Name:	Jeff Ornelas		Fax #:				
FOR LAB USE ONLY		P. MATRIX	PRESERV. SAMPLING	NG			
Lab I.D.	Sample I.D.	G)RAB OR (C)OM CONTAINERS ROUNDWATER VASTEWATER GOIL DIL SLUDGE	DTHER : ACID/BASE: CE / COOL DTHER : DATE	TIME C(
21 .	SP7 @ 3'	<	<	9:15 AM 🖌			
22 .	SP7 @ 4'	G - V	J 8/4/17	9:30 AM 🗸			
20	SP7 @ 9'	61 1	8/4/17	9:45 AM 🗸			
. 45	SP8 @ 1'	6	× 8/4/17	9:47 AM 🖌			
×	SP8 @ 3'	6 - 1	V 8/4/17	9:53 AM 🗸			
26.	SP8 @ 6'		\$ 8/4/17	10:16 AM 🗸			
27.	SP8 @ 9'	6 1 1	J 8/4/17	10:30 AM 🖌			
200	SP8 @ 12'	6 1 1	× 8/4/17	10:40 AM			
. 66	SP8 @ 15'	6 - 4	レ 8/4/17	11:01 AM 🖌			
\$	SP8 @ 18'	GIV	8/4/17	11:26 AM	_		
PLEASE NOTE: Liability ar analyses. All claims includir	client's exclusiv er cause whatso	or any claim arising whether based in contract or tort, shall be deemed waived unless made in writing and received by	t or tort, shall be limited to the amount paid d received by Cardinal within 30 days after	to the amount paid by the client for the vittin 30 days after completion of the applicable	•		
	ervice. In no event shall Cardinal be liable for incidental or consequential damages, indux iffiliates or auccessors arising out of or related to the performance of services hereunder b	opes, including without immation, business interruptions, loss or use, or ices or promo incurrer up yourn, as avonume me ensunder by Cardinal, repardiess of whether such claim is based upon any of the above stated reasons or otherwise.	is based upon any of the above stated re			Add'I Dhone #	
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	Time: 05	Aunora	R				
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+ Cardinal	Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	se fax written changes to	505-393-2476				

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101 East Marland, Hobbs, NM 88240

	(505) 393-2326 FAX (505) 393-2476	(505) 393-2476																																						1		
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Project Manager:										T	P.O. #:	*								_	_														-			_				
Address: P.O.	. Box 805									0	Company:	pa	Ny.		D	06	A A				_				-										_			_				
city: Hobbs		State: NM	Zip:		88241	41				Þ	Attn:	-	B	6	K	4 Hask	ell								-													_				
Phone #: 575-397-6388	-397-6388	Fax #: 575-397-0397	397	0	397					Þ	Address:	rea	S			C									-					-								_				
Project #:		Project Owner:	0	0	0					0	City:										-				-		_					_								_		
ame:	West Brushy 8 line leak	eak								S	State:	0			N	Zip:					_				-		_			_		_								_		
Project Location:	m: Eddy County, NM									7	Phone #:	ne	*														_			-		_			_					-		
Sampler Name:	: Jeff Ornelas									-	Fax #:	*			•				_						_							_										
FOR LAB USE ONLY			IP.				MA	MATRIX	-×	-	-	PRESERV.	SE	R	-	SAMPLING	G			(T																						
Lab I.D.	Sample I.D.	D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE		OTHER :	ACID/BASE:	ICE / COOL	OTHER :	officia.	DATE	TIME	CI	BTEX	TPHEX									1		1											
41 .	SP9 @ 1'		G	(<		-	-			5		~	8/4/17	11:34 AM	<	<	<	-		1		+					-		_			-			-				
42	SP9 @ 4'		5	-			5	-	-	-	_		7		~	8/4/17	11:41 AM	<			-				+-					+					+			-				
e.	SP9 @ 8'		6	-			5		-	-			5		-	8/4/17	12:01 PM	<			-				+-					+					+			-		_		
44	SP9 @ 12'		5	+			K		-				5	1	-	8/4/17	12"45 PM	1			-				+					-					+					-		
46 .	SP9 @ 15'		5	-			5		-	-			5	-		8/4/17	1:11 PM	<			-				+					-					+			-				
46 .	SP9 @ 17'		0	-			2		-	-			1			8/4/17	1:22 PM	<		_	-		1		+					-					-			-				
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Page 24 of 24

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	(505) 393-2326 FAX (505) 393-2476	6																												1	1			1					
Company Name:	BBC International, Inc.													12	BILL	L TO		1			ANALYSIS	SISA		10	REQUEST	F	- 0	-		1		-	1		1		_		
Project Manage	Project Manager: Cliff Brunson									P.O. #:	0	*						_	_			_																	
Address: P.O.	P.O. Box 805									C	Company:	pa	Y	-	C	8	11		_																				
	State: NM	Zip:		88241	41					At	Attn:		R	C	3	HASI	el																						
Phone #: 575-397-6388		-397	6	197	-					A	Address:	es	ŝ																						_				
Project #:	Project Owner:	-	C	0						Q:	City:																										_		
Project Name:	Project Name: West Brushy 8 line leak									St	State:				N	Zip:			_																				
Project Location:	n: Eddy County, NM									P	Phone #:	le	*																						_		_		
Sampler Name:	Jeff Ornelas									Fax #:	×	.#	L	L	1												-			-		_			_		_		
FOR LAB USE ONLY		IP.				1	MATRIX	X			T	PRESERV	SE	RV	-	SAMPLING	G							_															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL		OIL	SLUDGE	OTHER :		ACID/BASE:	ICE / COOL	OTHER :		m	TIME	Cl													1			1		1			
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52.	SP10 @ 15'	5	-			e					-	-	7		m	8/4/17	2:31 PM	<		+					T		+			+									
S	SP10 @ 18'	6	-			5				1	+	-	2		0	8/4/17	2:49 PM	<	-	+					1		-			+			1						
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PLEASE NOTE: Liability and Dan analyses. All claims including thos service. In no event shall Cardinal	ages. Cardinal's liability and client's exclusive remedy for te for negligence and any other cause whatsoever shall be be liable for incidental or consequental damages, including the liable for incidental or consequential damages.	any clai deeme	m aris d wah	ed un	hether here	mad mess	e in v	mupt co	ig an	Ioss loss	Long I	shail d by	Car	dina dina	prod to	the amount paid hin 30 days after its incurred by cl	e sennely for any claim asting whether based in contract or tori, shall be limited to the anount paid by the client for the teneres shall be deemed waived unless made in writing and received by Castrical which 30 days after completion of the teneres to the client for the teneres to teneres to the teneres to tenere teneres to tenere teneres to teneres to teneres to tenere teneres to tenere teneres to teneres teneres to tenere teneres to teneres teneres to teneres tene	applicab	ě																				
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August 15, 2017

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

RE: WEST BRUSHY 8 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 08/09/17 16:35.

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:	08/09/2017	Sampling Date:	08/07/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 13 @ 1' (H702090-01)

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	08/11/2017	ND	1.78	89.0	2.00	0.850	
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287	
Total BTEX	<0.300	0.300	08/11/2017	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	11900	16.0	08/10/2017	ND	448	112	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	08/11/2017	ND	202	101	200	7.53	
DRO >C10-C28	<10.0	10.0	08/11/2017	ND	206	103	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	08/11/2017	ND					
Surrogate: 1-Chlorooctane	91.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.4	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/09/2017	Sampling Date:	08/07/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 13 @ 3' (H702090-02)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	08/10/2017	ND	448	112	400	0.00	

Sample ID: SP 13 @ 6' (H702090-03)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4200	16.0	08/10/2017	ND	448	112	400	0.00	

Sample ID: SP 13 @ 9' (H702090-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	08/10/2017	ND	448	112	400	0.00	

Sample ID: SP 13 @ 12' (H702090-05)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	08/10/2017	ND	448	112	400	0.00	

Sample ID: SP 13 @ 15' (H702090-06)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	08/10/2017	ND	448	112	400	0.00	

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:	08/09/2017	Sampling Date:	08/07/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 13 @ 18' (H702090-07)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	08/10/2017	ND	448	112	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/09/2017	Sampling Date:	08/07/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 14 @ 1' (H702090-08)

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	08/11/2017	ND	1.78	89.0	2.00	0.850	
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287	
Total BTEX	<0.300	0.300	08/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	10700	16.0	08/10/2017	ND	448	112	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	08/11/2017	ND	202	101	200	7.53	
DRO >C10-C28	<10.0	10.0	08/11/2017	ND	206	103	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	08/11/2017	ND					
Surrogate: 1-Chlorooctane	92.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.8	% 34.7-15	7						

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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:	08/09/2017	Sampling Date:	08/07/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 14 @ 3' (H702090-09)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7330	16.0	08/10/2017	ND	448	112	400	0.00	

Sample ID: SP 14 @ 4' (H702090-10)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/10/2017	ND	448	112	400	0.00	

Sample ID: SP 14 @ 9' (H702090-11)

Chloride, SM4500Cl-B	3 mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/10/2017	ND	448	112	400	0.00	

Sample ID: SP 14 @ 14' (H702090-12)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/10/2017	ND	448	112	400	0.00	

Sample ID: SP 11 @ 1' (H702090-13)

Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	08/10/2017	ND	448	112	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	08/09/2017	Sampling Date:	08/07/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 11 @ 4' (H702090-14)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14200	16.0	08/10/2017	ND	448	112	400	0.00	

Sample ID: SP 11 @ 8' (H702090-15)

Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	08/10/2017	ND	448	112	400	0.00	

Sample ID: SP 11 @ 12' (H702090-16)

Chloride, SM4500Cl-B	00Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10300	16.0	08/10/2017	ND	448	112	400	0.00	

Sample ID: SP 11 @ 14' (H702090-17)

Chloride, SM4500Cl-B	4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 11 @ 15' (H702090-18)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/10/2017	ND	432	108	400	7.14	

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Received:	08/09/2017	Sampling Date:	08/07/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 11 @ 16' (H702090-19)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 11 @ 17' (H702090-20)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 11 @ 18' (H702090-21)

Chloride, SM4500Cl-B	e, SM4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 12 @ 1' (H702090-22)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5860	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 12 @ 3' (H702090-23)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	08/10/2017	ND	432	108	400	7.14	

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Received:	08/09/2017	Sampling Date:	08/07/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 12 @ 5' (H702090-24)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5860	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 12 @ 9' (H702090-25)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 12 @ 12' (H702090-26)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 12 @ 15' (H702090-27)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10500	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 12 @ 18' (H702090-28)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	08/10/2017	ND	432	108	400	7.14	

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Received:	08/09/2017	Sampling Date:	08/08/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 15 @ 1' (H702090-29)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 15 @ 3' (H702090-30)

Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 15 @ 5' (H702090-31)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 15 @ 9' (H702090-32)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8530	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 15 @ 12' (H702090-33)

Chloride, SM4500Cl-B	mg	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6530	16.0	08/10/2017	ND	432	108	400	7.14	

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Received:	08/09/2017	Sampling Date:	08/08/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 15 @ 15' (H702090-34)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 15 @ 16' (H702090-35)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 15 @ 17' (H702090-36)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 15 @ 18' (H702090-37)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/10/2017	ND	448	112	400	3.51	

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Received:	08/09/2017	Sampling Date:	08/08/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 16 @ 1' (H702090-38)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2017	ND	1.78	89.0	2.00	0.850	
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287	
Total BTEX	<0.300	0.300	08/11/2017	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	9330	16.0	08/10/2017	ND	448	112	400	3.51	QM-07
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	08/11/2017	ND	202	101	200	7.53	
DRO >C10-C28	<10.0	10.0	08/11/2017	ND	206	103	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	08/11/2017	ND					
Surrogate: 1-Chlorooctane	93.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.9	% 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	08/09/2017	Sampling Date:	08/08/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 16 @ 3' (H702090-39)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10800	16.0	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 16 @ 5' (H702090-40)

Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10500	16.0	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 16 @ 9' (H702090-41)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 16 @ 12' (H702090-42)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 16 @ 14' (H702090-43)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	08/10/2017	ND	448	112	400	3.51		

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Celey D. Keene, Lab Director/Quality Manager



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Received:	08/09/2017	Sampling Date:	08/08/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 16 @ 15' (H702090-44)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 16 @ 18' (H702090-45)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 17 @ 1' (H702090-46)

Chloride, SM4500Cl-B	SM4500Cl-B mg/kg				Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 17 @ 2' (H702090-47)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 17 @ 3' (H702090-48)

Chloride, SM4500Cl-B	mg	′kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/10/2017	ND	448	112	400	3.51	

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Received:	08/09/2017	Sampling Date:	08/08/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 17 @ 5' (H702090-49)

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	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 17 @ 7' (H702090-50)

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	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 17 @ 8' (H702090-51)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 17 @ 13' (H702090-52)

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	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 17 @ 18' (H702090-53)

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	08/10/2017	ND	448	112	400	3.51	

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Received:	08/09/2017	Sampling Date:	08/08/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 18 @ 1' (H702090-54)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	<0.050	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	<0.300	0.300	08/11/2017	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	112	16.0	08/10/2017	ND	448	112	400	3.51	
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	08/11/2017	ND	202	101	200	7.53	
DRO >C10-C28	<10.0	10.0	08/11/2017	ND	206	103	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	08/11/2017	ND					
Surrogate: 1-Chlorooctane	83.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.3	% 34.7-15	7						

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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:	08/09/2017	Sampling Date:	08/08/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 18 @ 2' (H702090-55)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 18 @ 3' (H702090-56)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 18 @ 5' (H702090-57)

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	08/10/2017	ND	480	120	400	14.3	

Sample ID: SP 18 @ 7' (H702090-58)

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	08/10/2017	ND	480	120	400	14.3	

Sample ID: SP 18 @ 8' (H702090-59)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/10/2017	ND	480	120	400	14.3	

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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:	08/09/2017	Sampling Date:	08/08/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 18 @ 13' (H702090-60)

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	08/10/2017	ND	480	120	400	14.3	

Sample ID: SP 18 @ 18' (H702090-61)

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	08/10/2017	ND	480	120	400	14.3	

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager


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

Received:	08/09/2017	Sampling Date:	08/08/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 19 @ SURFACE (H702090-62)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	<0.050	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	<0.300	0.300	08/11/2017	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	32.0	16.0	08/10/2017	ND	480	120	400	14.3	
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	08/11/2017	ND	202	101	200	7.53	
DRO >C10-C28	<10.0	10.0	08/11/2017	ND	206	103	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	08/11/2017	ND					
Surrogate: 1-Chlorooctane	85.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	80.3	% 34.7-15	7						

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/09/2017	Sampling Date:	08/08/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 19 @ 5' (H702090-63)

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	08/10/2017	ND	480	120	400	14.3	

Sample ID: SP 19 @ 10' (H702090-64)

Chloride, SM4500CI-B	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	08/10/2017	ND	480	120	400	14.3	

Sample ID: SP 20 @ SURFACE (H702090-65)

Chloride, SM4500Cl-B	loride, 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	08/10/2017	ND	480	120	400	14.3	

Sample ID: SP 20 @ 5' (H702090-66)

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	08/10/2017	ND	480	120	400	14.3	

Sample ID: SP 20 @ 10' (H702090-67)

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	08/10/2017	ND	480	120	400	14.3	

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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:	08/09/2017	Sampling Date:	08/08/2017
Reported:	08/15/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: NORTH @ SURFACE (H702090-68)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/10/2017	ND	480	120	400	14.3	

Sample ID: EAST @ SURFACE (H702090-69)

Chloride, SM4500Cl-B	mg	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/10/2017	ND	480	120	400	14.3	

Sample ID: WEST @ SURFACE (H702090-70)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/10/2017	ND	480	120	400	14.3	

Sample ID: SOUTH @ SURFACE (H702090-71)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/10/2017	ND	480	120	400	14.3	

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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 SM4500CI-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

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Page 23 of 30

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† Cardina	Relinquished By: Thuhat Dave Delivered By: (C Sampler - UPS - Bi	antiates or successors artising Relinquished By:	PLEASE NOTE: Liability and Damages. Cardinal's lia evolvees All relating incidence are	0	8	10		24	0		2	1 interio	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name: V	Project #:	Phone #: 575-397-6388		Address: P.O.	Project Manager:	Company Name:	
l cannot accept verbal	Relinquished By: That Drivery (A. Ting Delivered By: (Circle One) Sampler - UPS - Bus - Other: # 75	when is no event shall Cardinal be fashe for incidential or come minase or successors arising out of or related to the performance Relinquished By:	d any	SP14 @ 3'	SP14 @ 1'	SP13 @ 18'	SP13 @ 15'	SP13 @ 12'	SP13 @ 9'	CD13 @ 6'	SP13 @ 3'	SP13 @ 1'	Sample I.D.		Jeff Ornelas	: Eddy County, NM	Project Name: West Brushy 8 Line leak		97-6388		P.O. Box 805	201	BBC International, Inc.	(505) 393-2326 FAX (505) 393-2476
es.	-5-	Tippe: A NW	and client's exclusive remedy for any claim arising wh r other cause whatsoever shall be deemed waived un	0	10	61	61	6-	0	[-]	61	_	(G)RAB OR (C)O # CONTAINERS	MP.			eak	Project Owner: (100	Fax #: 575-397-0397	State: NM Zip: 8			, Inc.	505) 393-2476
ritten changes to 505-	Sample Condition Cool Intact Cool Intact Cool Intact Pres Pres	and in the second secon	I serclasive remody for any claim arising whether based in contract or tort, strait be inhibit to the amount paid by the client for the splicable is exclusive remody for any claim arising whether based in contract or tort, strait be femiliad to the amount paid by the client for the splicable are whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable are whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable are whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable.	~	1	5	<	5	5	~	<	<	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE:	MATRIX	Fax	Phone #:	State:	City:	397 Address:	88241 Attn:	Company:	P.O. #:		
333-24 4. 2 C	CHECKED BY:	supon any of the above stated reaso	shall be limited to the amount paid by the client for the ed by Cardinal within 30 days after completion of the a the subscience of models incurring two client. Its subscitiaties	J 8/7/17 1				J 8/7/17 9:	✓ 8/7/17 9:	8/7/17 8:	/ 8/7/17 8:	/ 8/7/17 8:	ICE / COOL OTHER : DATE			le #:	c Zip:		ess:	BECKY HANNEN	5	*	BILL TO	
0.		Phone Result: Fax Result: REMARKS:	y the client for the ompletion of the applicable of its subsidiaries.	10:55 AM	10:46 AM	10:30 AM	10:05 AM	9:33 AM	9:07 AM	8:51 AM	8:37 AM	8:31 AM	TIME							6				
4 -	fusi	T Yes			× ×	`						< <	TOUL	EX	T	-								
	ISNE (1 UNUM).	Add'I Phone #: Add'I Fax #:																						ANAI VSIS REOLIEST
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

1505	505) 303-2326 FAX (505) 393-2476)5) 393-2476							
Company Name: BE	BBC International, Inc	nc.		BILL TO	•		ANALYSIS REQUEST	ESI	
	Cliff Brunson		0	P.O. #:					
Address: P.O. Box 805	805		0	Company:					
city: Hobbs		State: NM Zip:	88241 A	Attn: Kelly Hay	anter				
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:					
Project #:		Project Owner:	0	City:					
ame:	West Brushy 8 Line leak	×	S	State: Zip:					
ž	Eddy County, NM		P	Phone #:					
	Jeff Ornelas		7	1					_
		*	MATRIX	PRESERV. SAN	SAMPLING				
Lab I.D.	Sample I.D.	B)RAB OR (C)OMP	ROUNDWATER /ASTEWATER OIL //L LUDGE						-
1102040	SP14 @ 9'	5	~	<	7 11:01 AM				
IZ SP	SP14 @ 14'	0	<	V 8/7/17					
-	SP11 @ 1'	6	~	8/7/17					
-	SP11 @ 4'	0	<	V 8/7/17					
-	SP11 @ 8'	0	- <	/ 8/7/17					
16 SP	SP11 @ 12'	0	-	× 8///17					
17 SP	SP11 @ 14'	Q,	V	V 8//11					
SP SP	SP11 @ 15	0	-	V 8////					
-	SP11 @ 16'	0	-	J 8///17	7 1:22 PM				
dS at.	SP11 @ 17'	and clearly exclusive remody for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	arising whether based in contract of	x tort, shall be limited to the amo	ount paid by the client for the				
PLEASE NOTE: Liability and Dan analyses. All claims including thoses service. In no event shall Cardinal	PLEASE MOTE: Liability and Damages. Candinal's liability and dents accurate summary and an encode of the applicable analyses. All claims including those for motigeness and any other cause whatdower shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for motigeness and any other cause whatdower shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for motigeness and any other cause whatdower shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those of use, or loss of profits incurred by claims. It is ubstallaries, the interview of the applicable analyses interruptions, loss of use, or loss of profits incurred by claims.	s exclusive remoty to any common se whatsoever shall be deemed v intai damages, including without it	naived unless made in writing and mitation, business interruptions, k	received by Cardinal within 30 d ss of use, or loss of profits incur based upon any of the above st	lays after completion of the app med by client, its subsidiaries, tated reasons or otherwise.	picable			
Relinquished By:	ed By:	Tinge: ANA	Received By: Hiring Longy ! //h	my MA	Phone Result: Fax Result: REMARKS:	: C Yes C No	Add'I Phone #: Add'I Fax #:		
Relinquished By:		217	Received By:	MARIA					
Delivered By: (Circle One)	ircle One)	1.1.1 4	Sample Condition	on CHECKED BY:	Y:				
Douton of the			Cool Intact	(Submitted)	_				

Sampler - UPS - Bus - Other:

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Cool Intact Yes Yes No No No

t Cardinal cannot accept verbal changes. Please fax written changes to 505-39314476, 25

Page 24 of 30

Page 25 of 30

			ANALYSIS REQUEST
Company Name: BBC International, Inc.	DILLIO		_
Project Manager: Cliff Brunson	P.O. #		
Address: P.O. Box 805	Compa		
city: Hobbs State: NM Zip: 88241	Attn: Becky Haske	8	
Phone #: 575-397-6388 Fax #: 575-397-0397	7 Address:		
Project #: Project Owner:	City:		
ame: West Brushy 8 Line le	State: Zip:		
Project Location: Eddy County, NM	Phone #:		
- L	1		
	MATRIX PRESERV. SAMPLING		
CONTAINERS	VASTEWATER SOIL DIL SLUDGE DTHER : ACID/BASE: CE / COOL DTHER : DTHER :	C I	
- #	J J 8/7/17	1:33 PM 🖌	
27 SP12 @ 1'	J / 8/7/17 1	1:35 PM 🗸	
_	J J 8/7/17 1	1:29 PM 🗸	
-		1:48 PM 🗸	
-		1:59 PM V	
	× 1/1/1 × 0/7/47 2	2:29 PM V	
SP12 @ 15'		3:30 PM	
SP12 @ 18		8:46 AM 🗸	
-	V 8/8/17	8:48 AM	
LEASE NOTE: Liability and Damages Cardina's liability and client's exclusive remedy for any claim arising v	g whether based in contract or tort, shall be limited to the amount paid to a share to a strong and monitor to Cardinal within 30 days after o	d by the client for the or completion of the applicable	
including those for negligence and any other cause whatsoever shall Caudinal be liable for incidental or consequental damages of the product of the nucleonarce of services hereign	cuase whatever shall be deemed waved uness mouse in wining way source or course of portis incurred by client, its subsidiaries expandia damages, including without limitation, burnes interruptions, loss of upon any of the above stated mascots or otherwise, and envices the equivalent test source of whether such claim is based upon any of the above stated mascots or otherwise.	s or otherwise.	Add'I Phone #:
Tipe: 20m	Benegit.	Yes	
Relinquished By: Thurs Arney M Time: 26 1000	h denson		
0 0 0	Sample Condition CHECKED BY: Cool Intact (Initials)		
Sampler - UPS - Bus - Other# 15 - 5190 Pres Pres	C TYpes Types TYPes		



CHAIN-OF-CUSTODY AND	
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) ANALYSIS	
10,	
REQUEST	
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city: Hobbs Project Manager: Cliff Brunson Company Name: BBC International, Inc. Phone #: 575-397-6388 Address: P.O. Box 805 Project Location: Project Name: West Brushy 8 Line leak Project #: H102090 Sampler Name: Relinquished By Sampler - UPS - Bus - Other. Relinquished B FOR LAB USE ONLY Lab I.D. Delivered By: (Circle One) Huma The yses. All claims ice. In no event shall Cardinal be liable 5 G including those for negligence and any SP15 @ 15' (505) 393-2326 FAX (505) 393-2476 SP15 @ 12 SP15 @ 9' SP16 @ 3" SP15 @ 18' SP15 @ 17' SP15 @ 16' SP15@ 5' SP16 @ 5' SP16 @ 1' Eddy County, NM Jeff Ornelas -ey 1/1: Sample I.D. DOL NOOR 313 Project Owner: Fax #: Date: 8/1 Time Time: 3004 State: Date: 9 NM 575-397-0397 Inali be zip: 88241 OOOOOO(G)RAB OR (C)OMP G G 5 **Received By:** Received By: 8 Hulid Garage /14. # CONTAINERS GROUNDWATER WASTEWATER Yes Yes sample made in writing and received by Cardina MATRIX SOIL < 5 5 5 5 < 1 OIL SLUDGE City: P.O. #: State: Attn: OTHER Fax #: Phone #: Compagy: loss of use, or loss of Address: ACID/BASE PRESERV RC ICE / COOL ۲ BILL TO OTHER Zip: 8/8/17 8/8/17 8/8/17 within 30 days 8/8/17 8/8/17 8/8/17 8/8/17 8/8/17 8/8/17 8/8/17 DATE SAMPLING ane 9:22 AM client, its subsidiaries 9:59 AM 9:41 AM 8:55 AM Phone Result: Fax Result: REMARKS: 10:45 AM 10:55 AM 10:47 AM 10:33 AM 10:23 AM 10:17 AM by the client for the TIME tion of the app < < < □ Yes 4 I No ANALYSIS Add'I Fax #: Add'l Phone #: REQUEST

Cardinal cannot accept verbal changes. Please fax written changes to 505-393 attel, 25 2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 27 of 30

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

	(505) 393-2326 FAX (505) 393-2478	0142-666 (60	BILL TO		ANALYSIS REQUEST
Project Manager:	Cliff Brunson		P.O. #:		
Address: P.O.	ω I		Company: (100		
T		State: NM Zip: 88241	Attn: KECKU HAL	Share	
Phone #: 575-3	575-397-6388 F	Fax #: 575-397-0397	Address:		
Project #:	P	Project Owner:	City:		
Project Name: V	Project Name: West Brushy 8 Line leak	ak	State: Zip:		
Project Location:	: Eddy County, NM		Phone #:		
Sampler Name:	Jeff Ornelas		Fax #:		
FOR LAB USE ONLY		MA	MATRIX PRESERV. SAMPLING	ING	
		ERS ATER		/	
Lab I.D.	Sample I.D.	G)RAB OR # CONTAINE GROUNDW/ WASTEWAT SOIL	OIL SLUDGE OTHER : ACID/BASE ICE / COOL OTHER : DATE	TIME	
-	SP16 @ 9'	-	V 8/8/17	11:22 AM 🗸	
_	SP16 @ 12'	61 1	× 8/8/17	-	
64	SP16 @ 14'	61 1	8/8/17		
44	SP16 @ 15'	6-1	/ 8/8/7	-	
5,	SP16 @ 18'	0-		TZTZ PM V	
46	SP17 @ 1'	6-			
47	SP17 @ 2'	0	/ 10/8/17	12:00 PM	
85	SP17 @ 3'	0	/ 9/8/17	1.05 PM	
bh	SP17 @ 5'	G	V 0/0/17	1-11 PM	
50	SP17 @ 7'		ed in contract or fort, shall be limited to the amount (paid by the client for the	
PLEASE NOTE: Liability a analyses. All claims includi service. In no event shall C	nd Damages. Cardinal's liability and clien ng those for negligence and any other ca ardinal be liable for incidental or consequ	PEASE NOTE: Liability and Damages. Candinal's liability and client's exclusive remody for any claim straing whother outside or non-new owners when owners when owners are applicable analyses. All claims including those for negligence and any other cause whatsoewer shall be deemed waived unless made in writing and societies by Client. Its subsidiaries, service. In no event shall Cardinal be stable for incidental or consequential damages, including without limitation, business intemptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be stable for incidental or consequential damages, including without limitation, business intemptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be stable for incidental or consequential damages, including without limitation, business intemptions, loss of use, or loss of profits incurred by client, its subsidiaries, service.	taim assist whether based in contratur or kin, when we measure with in 30 days a ned waived unless made in writing and received by Cardinal within 30 days a hout invitation, business interruptions, loss of use, or loss of profits incurred b near investment of whether such claim is based upon any of the above stated one investment of whether such claim is based upon any of the above stated profits and the stated of the stated of the above stated of the above stated one of the stated of the stated of the stated of the above stated of the above stated in the state of	after completion of the applicable by client, its subsidiaries, I reasons or otherwise	
Relinquished By:	ed By:	Time; And Time;	Iney/ /2.	It: □ Yes □ Yes	□ No Add'I Phone #: □ No Add'I Fax #:
Relinquished By	Y:	Date o 111 Received By:			
Flashi Gene	Gener 1 Mr.	TIME 25 35 MOOL	MUMBER		

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

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t Cardinal cannot accept verbal changes. Please fax written changes to 505-393-24164, 25 °C



(ENE) 202-2326 EAY (505) 393-2476	176				
Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST	QUEST
	7	P.O. #			
Address: P.O. Box 805		Company: (UC	2		
city: Hobbs State: NM	Zip: 88241	Attn: FXCIW HASILWAY	and a		
5-397-6388 Fax #:	575-397-0397	Address:			
Project #: Project Owner:	006	City:			
Project Name: West Brushy 8 Line leak		State: Zip:			
Project Location: Eddy County, NM		Phone #:			
Sampler Name: Jeff Ornelas		1	5	T	
	MATRIX	PRESERV. SAMPLING	NG	X	
Lab I.D. Sample I.D.	B)RAB OR (C)OMP CONTAINERS ROUNDWATER /ASTEWATER OIL ULL LUDGE			BTEX	
TTULCTO SP17 @ 8'		5	1:15 PM V		
SN2 SP17 @ 13'	61 1	V 8/8/17	1:22 PM		
3	GIV	V 8/8/17			
< 44 SP18 @ 1'	6 - 4	11/8/8	T:JS PM		
SALS SP18 @ 2'	6- 1	11/8/8	1:30 PM		
_	6- 1	V 8/8/17	T:3/ PM		
SX7 SP18 @ 5'	C I N	8/8/1/	1.40 PM		
	20	8/8/17	1:50 PM		
S 3 SP18 @ 8	20	/ 8/8/17	+		
50 SP18 @ 13'	C 1 V to any claim arising whether based in contract	or tort, shall be limited to the amount p	aid by the client for the		
PLEASE NOTE: Liability and Damages. Cardina's liability and clearts exclusive enrolly or any clean areas or incursance room, encoursed by Cardinal within 30 days after completion of the applicable analytes. At claims including those for negligence and any other crase whatoever shall be deemed waived unsers made in winging and received by Cardinal within 30 days after completion of the applicable analytes. At claims including those for negligence and any other crase whatoever shall be deemed waived unsers made in winging and received by Cardinal within 30 days after completion of the applicable analytes. At claims including those for negligence and any other crase for any other shares and in the share for the share for the share for the stability and the share for the share for the share and any other shares are not profile to the share for t	Cardinal's liability and clients exclusive remoty for any claim naively writter course is invariant, incurrence the set of the an epigenose and any other cause whatsoever shalt be demotd water and the institution and received by Cardinal writtin 30 days after completion of the an bein for incidential or corresponding damages, including writtout limitation, business interruptions, loss of use, or loss of profits incurred by claim, its subsidiares bein for incidential or corresponding damages, including writtout limitation, business interruptions, loss of use, or loss of profits incurred by claim, its subsidiares	I received by Cardinal within 30 days at loss of use, or loss of profils incurred by	her completion of the ap r client, its subsidiaries.	plicable	
out of or related to the performance of	If by Cardinal, regardless of whether such claim is based upon any of the acove state Received BV:	s based upon any of the above stated i	Phone Result:	Ves No	
Relinquished By:	5	en Mr.	Fax Result: REMARKS:	□Yes □No Add1Fax#:	
Palinguished By: Date of	Received By:				

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Time

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

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Sample Condition

LECKED BY:

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Page 28 of 30

	101 East Marianu, nouss, min 00-1						
Company Name:	BBC International, Inc.		BILL TO			ANALYSIS REQUEST	
Project Manager:	Cliff Brunson		P.O. #:				
Address: P.O.	Box 805		COC	1			
city: Hobbs	State: NM	41	Attn: BULL HASKEN	and			
Phone #: 575-3	575-397-6388 Fax #: 575-:	575-397-0397	Address:				
Project #:	Project Owner:	06	City:				
ame:	West Brushy 8 Line leak		State: Zip:				
Project Location:	: Eddy County, NM		Phone #:				
Sampler Name:	Jeff Ornelas		1		~		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	G	V		
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP CONTAINERS ROUNDWATER VASTEWATER COIL DIL SLUDGE	ACID/BASE: CE / COOL DTHER :	TIME	BTEX TIPHEK		
H702070	SP18 @ 18'		8/8/17	2:05 PM	<		
140	SP19 @ SURFACE	61 10	V 8/8/17	2:06 PM	V V V		
630	SP19 @ 5'	G I V	8/8/17	2:10 PM	<		
124	SP19 @ 10 ¹	C 1 10			~		
125	SP20 @ SURFACE	6111		2:22 PM	. <		
186	SP20 @ 5'	611		2:30 PM	~		
150	SP20 @ 10'	6 1		2:40 PM	. <		
83	NORTH @ SURFACE	6 1 1		2:45 PM	. <		
120	EAST @ SURFACE	61 4	2 8/8/17	2:50 PM	~		
20	WEST @ SURFACE	611 11	11/8/8	MA RC.7			
PLEASE NOTE: Liability a analyses. All claims includ	a ren	iny claim arising whether based in contract or tort, shall deemed waived unless made in writing and received by unlined isolation business interruptions, loss of use.	be limited to the amount p Cardinal within 30 days at or loss of profits incurred by	ad by the client for the a ter completion of the a r client, its subsidiaries	e applicable s,		
service. In no event shall affiliates or successors artic	ervice. In no event shall Cardinal be lable for incidental or consequentation universe iffiliates or successors arising out of or reliated to the performance of services hereunder by (ardinal, regardless of whether such claim	is based upon any of the above stated re-	Phone Result:	ft	No	
Relinquished B	MM la Times a) por	Hours M.	af the	Fax Result: REMARKS:	□ Yes	🗆 No 🛛 Add'I Fax #:	
Relinquished By:	By: Date 1 (A. Time 1:35	Received By:	MDO				
Delivered By Sampler - UPS	Sampler - UPS - Bus - Other: #75 -	5,150 Cool Intact	nitiale				
† Cardina	Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 てくしょうしょうしょうしょうしょうしょうしょうしょうしょうしょうしょうしょうしょうし	A 90 Correct	fed 4,25°				

Page 29 of 30

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	8	N
	101 East N	ARDINAL LABORATORIES
TAL DOD DOD FAV IENEL DOD DATE	101 East Marland, Hobbs, NM 88240	LABORAT
STAC COC	, NM 88240	ORIES

	(505) 393-2326 FAX (505) 393-2476	2476				ANALVSIS DEDIJEST	
Company Name:	 BBC International, Inc. 		BILL TO				
Project Manager:	r: Cliff Brunson	P.	P.O. #:				
Address: P.O. Box 805	Box 805	0	Company: (UC	11			
city: Hobbs	State: NM	zip: 88241	Attn: Kolly Hask	SUC (
Phone #: 575-397-6388	Fax #:	5-397-0397	Address:				
Project #:	Project Owner:	006	City:				
Project Name:	Project Name: West Brushy 8 Line leak		State: Zip:				
Project Location:	n: Eddy County, NM	P	Phone #:				
Sampler Name:	Jeff Ornelas	Fa	1				
FOR LAB USE ONLY		P. MATRIX	PRESERV. SAMPLING	G			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER : DATE	0.4			
110000	SOUTH @ SURFACE	-	J 8/8/17	3:15 PM 🗸			
	. 10						
	A PAR						
PLEASE NOTE: Liability analyses. All claims inclu	PEASE NOTE: Liability and Damagee. Candinal's liability and clearit's exclusive remody for any claim arising whether based in contrad 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 whateoever shall be deemed waived unless made in writing and received by Candinal within 30 days after completion of the applicable analyses. All claims including those for incidential or consequential damages, including without limitation, business interruptions, loss of use, or loss of points incoment by client, its business and any other cause whateoever, including without limitation, business interruptions, loss of use, or loss of points incoment by client, its analyses.	ooly for any claim arising whether based in contract or shall be deemed waived unless made in writing and ra including without limitation, business interruptions, lost	r tort, shall be limited to the amount pare eceived by Cardinal within 30 days after ss of use, or loss of profits incurred by	d by the client for the r completion of the application client, its subsidiaries.	icable		
Relinquished By:	reflection and the original to the performance of services being neuron to the services being neuron to	the by Cardinal regardless of whether such claim is based upon any of the There ived By: Thur Hun Henney / Mr.	on 1 Mr.	Phone Result: Fax Result: REMARKS:	□Yes □No	Add'l Phone #: Add'l Fax #:	
Relinquished By:	-	Received By:	in) ann				
Henrie Mon	Money Mr. Time:	Sample Condition	CHECKED BY:				
Delivered R	Dalivarad Rv: (Circle Une)						

Sampler - UPS -011401

Bus - Other:

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Page 30 of 30

20%



August 31, 2017

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

RE: WEST BRUSHY 8 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 08/25/17 13:22.

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:	08/25/2017	Sampling Date:	08/21/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SB1 @ 20' (H702256-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	08/28/2017	ND	448	112	400	0.00	

Sample ID: SB1 @ 22' (H702256-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/28/2017	ND	448	112	400	0.00	

Sample ID: SB1 @ 25' (H702256-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/28/2017	ND	448	112	400	0.00	

Sample ID: SB1 @ 30' (H702256-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/28/2017	ND	448	112	400	0.00	

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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:	08/25/2017	Sampling Date:	08/21/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SB1 @ 35' (H702256-05)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/28/2017	ND	448	112	400	0.00	

Sample ID: SB1 @ 40' (H702256-06)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/28/2017	ND	448	112	400	0.00	

Sample ID: SB2 @ 20' (H702256-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5730	16.0	08/28/2017	ND	448	112	400	0.00	

Sample ID: SB2 @ 22' (H702256-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4660	16.0	08/28/2017	ND	448	112	400	0.00	

Sample ID: SB2 @ 25' (H702256-09)

Chloride, SM4500Cl-B	mg	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	08/28/2017	ND	448	112	400	0.00	

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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:	08/25/2017	Sampling Date:	08/21/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SB2 @ 30' (H702256-10)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/28/2017	ND	448	112	400	0.00	

Sample ID: SB2 @ 35' (H702256-11)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/28/2017	ND	448	112	400	0.00	

Sample ID: SB2 @ 40' (H702256-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	08/28/2017	ND	432	108	400	3.64	

Sample ID: SB2 @ 45' (H702256-13)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/28/2017	ND	448	112	400	0.00	

Sample ID: SB2 @ 50' (H702256-14)

Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/28/2017	ND	432	108	400	3.64	

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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:	08/25/2017	Sampling Date:	08/21/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SB2 @ 55' (H702256-15)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/28/2017	ND	432	108	400	3.64	

Sample ID: SB2 @ 60' (H702256-16)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2017	ND	432	108	400	3.64	

Sample ID: SB2 @ 65' (H702256-17)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/28/2017	ND	432	108	400	3.64	

Sample ID: SB3 @ 20' (H702256-18)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/28/2017	ND	432	108	400	3.64	

Sample ID: SB3 @ 22' (H702256-19)

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	08/28/2017	ND	432	108	400	3.64	

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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:	08/25/2017	Sampling Date:	08/22/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SB3 @ 25' (H702256-20)

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	08/28/2017	ND	432	108	400	3.64	

Sample ID: SB3 @ 30' (H702256-21)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2017	ND	432	108	400	3.64	

Sample ID: SB3 @ 35' (H702256-22)

Chloride, SM4500Cl-B	00Cl-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	08/28/2017	ND	432	108	400	3.64	

Sample ID: SB3 @ 40' (H702256-23)

Chloride, SM4500Cl-B	CI-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/28/2017	ND	432	108	400	3.64	

Sample ID: SB4 @ 20' (H702256-24)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1480	16.0	08/28/2017	ND	432	108	400	3.64	

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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:	08/25/2017	Sampling Date:	08/22/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SB4 @ 22' (H702256-25)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2017	ND	432	108	400	3.64	

Sample ID: SB4 @ 25' (H702256-26)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2017	ND	432	108	400	3.64	

Sample ID: SB4 @ 30' (H702256-27)

Chloride, SM4500Cl-B	4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2017	ND	432	108	400	3.64	

Sample ID: SB4 @ 35' (H702256-28)

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	08/28/2017	ND	432	108	400	3.64	

Sample ID: SB5 @ 20' (H702256-29)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	08/28/2017	ND	432	108	400	3.64	

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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:	08/25/2017	Sampling Date:	08/22/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SB5 @ 22' (H702256-30)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	08/28/2017	ND	432	108	400	3.64	

Sample ID: SB5 @ 25' (H702256-31)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6260	16.0	08/28/2017	ND	432	108	400	3.64	

Sample ID: SB5 @ 30' (H702256-32)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB5 @ 35' (H702256-33)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2017	ND	432	108	400	3.64	

Sample ID: SB5 @ 40' (H702256-34)

Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/28/2017	ND	448	112	400	3.64	

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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:	08/25/2017	Sampling Date:	08/22/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SB5 @ 45' (H702256-35)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB5 @ 50' (H702256-36)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB6 @ 20' (H702256-37)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB6 @ 22' (H702256-38)

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	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB6 @ 25' (H702256-39)

Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/28/2017	ND	448	112	400	3.64	

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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:	08/25/2017	Sampling Date:	08/22/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SB6 @ 30' (H702256-40)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB6 @ 35' (H702256-41)

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	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB6 @ 40' (H702256-42)

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	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB6 @ 45' (H702256-43)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB6 @ 50' (H702256-44)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2017	ND	448	112	400	3.64	

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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:	08/25/2017	Sampling Date:	08/22/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SB6 @ 55' (H702256-45)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB7 @ 20' (H702256-46)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB7 @ 25' (H702256-47)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB7 @ 30' (H702256-48)

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	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB8 @ 20' (H702256-49)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/28/2017	ND	448	112	400	3.64	

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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:	08/25/2017	Sampling Date:	08/22/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SB8 @ 25' (H702256-50)

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	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB8 @ 30' (H702256-51)

Chloride, SM4500CI-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	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB7 @ 35' (H702256-52)

Chloride, SM4500Cl-B	I-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB7 @ 40' (H702256-53)

Chloride, SM4500Cl-B	l-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	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB7 @ 45' (H702256-54)

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	08/28/2017	ND	448	112	400	3.64	

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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:	08/25/2017	Sampling Date:	08/23/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SB7 @ 50' (H702256-55)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB8 @ 35' (H702256-56)

Chloride, SM4500Cl-B	nloride, SM4500Cl-B mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB8 @ 40' (H702256-57)

Chloride, SM4500Cl-B	I-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB8 @ 45' (H702256-58)

Chloride, SM4500Cl-B	l-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	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB8 @ 50' (H702256-59)

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	08/28/2017	ND	448	112	400	3.64	

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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:	08/25/2017	Sampling Date:	08/23/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SB9 @ 20' (H702256-60)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB9 @ 23' (H702256-61)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB9 @ 25' (H702256-62)

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	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB9 @ 30' (H702256-63)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB9 @ 35' (H702256-64)

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	08/28/2017	ND	448	112	400	3.64	

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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:	08/25/2017	Sampling Date:	08/23/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 LINE LEAK	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SB9 @ 40' (H702256-65)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/28/2017	ND	448	112	400	3.64	

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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 SM4500CI-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

Received by OCD: 9/11/2024 9:31:25 AM

AF	RDINAL LABORATORIES	S		CHAIN-OF-CU	CUSTODY AND ANALYSIS REQUEST
	(505) 393-2326 FAX (505) 393-2476	76			
Company Name:	BBC International, Inc.		BILL TO		ANALYSIS REQUEST
Project Manager:			P.O. #:	_	-
Address: P.O.	Box 805		company: 006		
city: Hobbs	State: NM	zip: 88241	Attn: Rocky Haskel	oll	
Phone #: 575-3	575-397-6388 Fax #: 575	575-397-0397	Address:		
Project #:	Project Owner:	06	City:		3
Project Name: V	Project Name: West Brushy 8 line leak		State: Zip:		
Project Location:	1: Eddy County, NM		#		
Sampler Name:	Jeff Ornelas		Fax #:		
FOR LAB USE ONLY		MATRIX	PRESERV SAMPLING	ING	
		2		ING	
Lab I.D.	Sample I.D.	RAB OR (C)O ONTAINERS OUNDWATER STEWATER IL JDGE	HER : D/BASE: / COOL HER :	Cl	
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e	SB1 @ 22'	6- 1	8/21/17	2:11 PM 🖌	
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61	SB1 @ 30'	6-	8/21/17	-	
5	SB1 @ 35'	6 1 1	J 8/21/17	2:21 PM 🖌	
6	SB1 @ 40'	6 - 7	8/21/17	2:23 PM 🗸	
1	SB2 @ 20'	6 - 1	8/21/17	2:30 PM	
~	SB2 @ 22'	6 - 1	J 8/21/17	2:33 PM 🗸	
9	SB2 @ 25'	6 - 1	8/21/17	2:37 PM 🖌	
10	SB2 @	6 . 1	/ 8/21/17	2:38 PM 🖌	
analyses. All claims including th service. In no event shall Cardin	Damages. Cardinal's liability and ci brose for negligence and any other final be liable for incidental or cons		arising whether based in contract or tort, shalt be immited to the amount paid by the client for the and served unless made in writing and received by Cardinal within 30 days after completion of the art immitten, business teamptions, loss of use, or loss of profits incounted by client, its subsidiaries immitten.	d by the client for the r completion of the applicable sient, its subsidiaries,	
Relinguished By:	(What Time: 17	Received By: Howing Dene	cum is based upon any of the above stated rea	Phone Result:	☐ Yes ☐ No Add'I Phone #: ☐ Yes ☐ No Add'I Fax #:
	Beneg Ur.	Received By:	aldakter		
Delivered By:	(Circle One) 7.8°	Sample Condition Cool Intact	CH		
Sampler - UPS -	Bus - Other: Obverted 8		SL#- del		
† Cardinal c	Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	fax written changes to 50	05-393-2476		

Page 101 of 126

Page 17 of 23

Received by OCD: 9/11/2024 9:31:25 AM

| ager: Cliff Brunson FO. #: FO. #: Company: COC 10. Box 805 State: NM_Zip: 88241 Attn:: BitCLU HAS (GUL) Attn:: BitCLU HAS (GUL) 17.5-397-6388 Fax #: 575-397-0397 Address: Pione #: Pione #: w: West Brushy 8 line leak Project Owner: COC City: State: Zip: me: Jeff Ornelas Fax #: Fax #: Fax #: Time: Fax #: Time: 19.5 Sample 1.D. Git Advess: Fax #: Fax #: | BBC International, Inc. | Clift Brunson P.O. #:
Box 805 Commany: (1)

 | Hobbs state: NM zin: 88241 Attn: | e #: 575-397-6388 Fax #: 575-397-0397 Address | Project Owner: (06 | West Brushy 8 line leak State:
 | Eddy County, NM Phone #: | .leff Ornelas | | MATRIX PRESERV. | AGDINATER
SOIL
OIL
SLUDGE
OTHER :
ACID/BASE:
ICE / COOL
OTHER :
DATE
 | SB2 @ 35'
 | SB2 @ 40' G 1 V 8/21/17 | SB2 @ 45' 6 1 4 8/21/17 3:00 PM | SB2 @ 50' G 1 V 8/21/17 3:10 PM | SB2 @ 55' G I J 8/21/17 3:12 PM
 | SB2 @ 60' G J J 8/21/17 3:19 PM | SB2 @ 65' (6) (7 8/21/17 | SB3 @ 20' G I A 8/22/17 | SB3 @ 22' G I Y 8/22/17 | 20 SB3 @ 25' G 1 V 8/22/17 | ent's exclusive ren
cause whatsoever
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of services hereur | Was Time: 300m Thing General Mr. Phone Result: 1 Yes 1 No
REMARKS: | mon Mt. Date: Received E | Le la | By: (Circle One) 7.88
PS - Bus - Other: 1844 AL COCC 5 | BBC International, Inc. Cliff Brunson Box 805 State: State: State: State: Sample I.D. SB2 @ 35' SB2 @ 40' SB2 @ 40' SB2 @ 50' SB2 @ 50' SB2 @ 55' SB2 @ 55' SB2 @ 55' SB2 @ 55' SB2 @ 65' SB2 @ 55' SB2 @ 55' SB3 @ 22' SB3 @ 22' SB3 @ 22' SB3 @ 25' Damager. Cardinat's likelity and clearfs exclusive rear- out of or maked to the performance of services heave- out of or maked to the performance of services heave- and of or maked to the performance of services heave- SB3 @ 25' SB3 @ | Zip: 88241 Attri 397-0397 397-0397 Add 00 1 2 4 01 1 2 4 1 1 4 4 1 1 4 4 1 1 4 4 1 1 1 4 1 1 1 4 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <th>BILL TO mpany: COC r: BLCKU HASUAL fress: Zip: ress: Zip: ress: Zip: PRESERV SAMPLING PRESERV BL21/17 Summaria BL21/17 BL21/17 3:101 BL21/17 3:121 BL21/17 3:131 BL21/17 3:131 BL21/17 3:131 BL21/17 3:131 BL21/17 3:131 BL21/17 3:139 BL21/17 3:139 BL21/17 3:3.38 BL21/17 3:3.39
BL21/17 3:3.39 BL21/17 3:3.90 BL21/17 3:3.91 BL21/17 3:3.91 BL21/17 9:33.4 BL21/17 9:33.4 BL21/17 9:38.A BL20/17 9:38.A BL20/17 9:38.A BL20/17 9:38.A BL20/17 9:38.A BL20/17 9:38.A</th> <th>Yes</th> <th></th> | BILL TO mpany: COC r: BLCKU HASUAL fress: Zip: ress: Zip: ress: Zip: PRESERV SAMPLING PRESERV BL21/17 Summaria BL21/17 BL21/17 3:101 BL21/17 3:121 BL21/17 3:131 BL21/17 3:131 BL21/17 3:131 BL21/17 3:131 BL21/17 3:131 BL21/17 3:139 BL21/17 3:139 BL21/17 3:3.38 BL21/17 3:3.39 BL21/17 3:3.39 BL21/17 3:3.90 BL21/17 3:3.91 BL21/17 3:3.91 BL21/17 9:33.4 BL21/17 9:33.4 BL21/17 9:38.A BL20/17 9:38.A BL20/17 9:38.A BL20/17 9:38.A BL20/17 9:38.A BL20/17 9:38.A | Yes | | |
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| 7.88 Sample Condition | Cliff Brunson P.O. #: Box 805 State: NM Zip. 88241 Atms: B(L'LL) H(L')(L) 197-6388 Fax #: 575-397-0397 Address: Project Owner: C/C City: Vest Brushy 8 line leak Fax #: 575-397-0397 Address: Project Owner: C/C City: Vest Brushy 8 line leak Fax #: Fax #: Sample 1.D. RAB AIANE TER Project Owner: Sample 1.D. RAB AIANE TER MATRIX S2:@ 0.40° G I RAB AIANE TER S2:@ 0.40° G I RAB AIANE TER S2:@ 0.40° G I RAB AIANE TER S2:@ 0.40° G I Vest S2 S2:@ 0.40° G I Vest S2 S2:@ 0.40° G I Vest S2 S2:@ 0.60° G I Ve | Ig7-6388 Fax #: 575-397-0397 Address:
Address: Project Owner: 00 City: Phone #: Left Ornelas Fax #: 575-397-0397 Address: Jeft Ornelas Fax #: 575-397-0397 Address: Jeft Ornelas Fax #: Sample I.D. Fax #: Sample I.D. Sample I.D. B or Intext Fax #: Date Sample I.D. S2@ @ 35' G I I VIEWS INTAINEER Date Sample I.D. S82 @ 40'' G I VIEWS INTAINEER Sample I.D. BORITAINEER Sample I.D. S82 @ 50' G I VIEWS INTAINEER Sample I.D. BORITAINEER Sample I.D. S82 @ 50' G I VIEWS INTAINEER Sample I.D. BORITAINEER Sample I.D. BORITAINEER Sample I.D. Sample I.D. BORITAINEER Sample I.D. BORITAINEER Sample I.D. Sample I.D. BORITAINEER Sample I.D. Sample I.D. <t< td=""><td>Ig7-6388 Fax #: 575-397-0397 Address: Project Owner: CUC City: :: Eddy County, NM Phone #: Jeff Ornelas Fax #: State: Sample I.D. OF 0 G(I) S82 @ 35' G(I) G(I) S82 @ 40' G(I) G(I) S82 @ 55' G(I) G(I) S82 @ 50' G(I) G(I) S82 @ 50' G(I) G(I) S82 @ 50' G(I) G(I) G(I) S82 @ 50' G(I) G(I) G(I) G(I) S82 @ 50' G(I) G(I) G(I) G(I) G(I) S82 @ 50' G(I) G(I) G(I) G(I) G(I) G(I) S82 @ 50' G(I) G(I) G(I) G(I) G(I) G(I) G(I) G(I) G(I) S82 @ 20' G(I) G(I)</td><td>Project Owner: CV City:
State: Zip:
Project Owner: Leff Ornelas Fax #: Phone #: Sample I.D. OR ONTAINERS Fax #: Sample I.D. OR ONTAINERS PRESERV SB2 @ 35' G I G I SB2 @ 40' G I G I SB2 @ 55' G I G I SB2 @ 50' G I G I G I SB2 @ 10' G I G I G I G I SB2 @ 20' G I G I G I G I G I SB3 @ 20' G I G I G I G I G I G I SB3 @ 20' G I G I</td><td>Vest Brushy 8 line leak State: Zp:: Jeff Ornelas Phone #: Jeff Ornelas Firster Sample I.D. Restrict State Sample I.D. Restrict State SB2 @ 35' G I SB2 @ 50' G I SB2 @ 55' G I SB3 @ 22'/7 S93 All SB3 @ 22'/7 <</td><td>Eddy County, NM Phone #:
Fax #: Jeff Ornelas Fax #:
Fax #: Sample I.D. MATRIX PRESERV
Sample I.D. SAMPLING Sample I.D. GI (C) OMP Fax #:
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Received by OCD: 9/11/2024 9:31:25 AM

Project Manager: Cliff Brunson P.O. #: Address: P.O. Box 805 State: NM Zip: 88241 Company: COO City: Hobbs State: NM Zip: 88241 Attn: Rully Has/all Phone #: 575-397-6388 Fax #: 575-397-0397 Address: Project #: Project Owner: COO City: Project Name: West Brushy 8 line leak Project Owner: COO City: Project Location: Eddy County. NM State: Zip: Sampler Name: Jeff Ornelas Fax #: Fax #:
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Page 19 of 23

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 20 of 23

101 East Marland Hobbs NM 88240

(505) 393-2326 FAX (505) 393-2476	3-2476		
		BILL TO	ANALYSIS REQUEST
Project Manager: Cliff Brunson	P.O. #:		
Address: P.O. Box 805	Company:	any: COC	
city: Hobbs State: NM	zip: 88241 Attn:	Becky Hashull	
Phone #: 575-397-6388 Fax #:	575-397-0397 Address:	iss:	
Project #: Project Owner:	owner: (06 city:		
Project Name: West Brushy 8 line leak		Zip:	
Project Location: Eddy County, NM	Phone #:		
Sampler Name: Jeff Ornelas	Fax #:		
FOR LAB USE ONLY	MATRIX PR	PRESERV. SAMPLING	
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

HADJASY 45

	Sampler - UPS - Bus - Other:	Delivered By: (Circle One)	Lucio ton	Relinquished By:	VEST UNIT	Kelinquisned by:	ervice. In no even snall Caronal of filiates or successors arising out of	LEASE NOTE: Liability and Dama malyses. All claims including those	SO SBS	49 SBE	48 SB7	-	W SB7		44 SBE	43 SB6		4 SB6	Lab I.D.
	-0-	20	Time:	Date: 8125.17	Las Time: 3000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	revive in to even shall caurina or save for incoordan or consequentia damages, including without etimation, business interruptions, loss of use, or loss of profits incurred by client, its subustaves, milletes or successors analising out of or reliated to the performance of envices hereunder by Caurinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remody for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the numbres. All claims including those for negligence and any other cause whatboewe shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable realized.	SB8 @ 25'	SB8 @ 20'	SB7 @ 30'	SB7 @ 25'	SB7 @ 20'	SB6 @ 55'	SB6 @ 50'	SB6 @ 45'	SB6 @ 40'	SB6 @ 35'	Sample I.D.
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ARDINAL LABORATORIES

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

Phone #: 575-397-6388

Project #:

Project Owner: UUG

State:

Zip

City:

Fax #: State: NM

575-397-0397 Zip:

88241

Attn:

Sectury Haskel

Company:

000

Address:

P.O. #:

BILL TO

ANALYSIS

REQUEST

Project Name: West Brushy 8 line leak

Eddy County, NM Jeff Ornelas

Sampler Name: Project Location:

FOR LAB USE ONLY

MATRIX

PRESERV

SAMPLING

Fax #:

Phone #:

city: Hobbs

Project Manager: Cliff Brunson

Company Name:

BBC International, Inc.

Address: P.O. Box 805

Received by OCD: 9/11/2024 9:31:25 AM

Company Name:	5	476	BILL TO		ANALYSIS REQUEST
Project Manager:			P.O. #:		
Address: P.O.	. Box 805		Company: (06		
city: Hobbs	State: NM	1 zip: 88241	Attn: Bricky Hastall		
Phone #: 575-397-6388	Fax #:	575-397-0397	10		
Project #:	Project Owner:	ner: (06	City:		
Project Name:	Project Name: West Brushy 8 line leak		State: Zip:		
Project Location:	n: Eddy County, NM		#		
Sampler Name:	Jeff Ornelas		Fax #:		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	NG	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	TIME C(
ST	SB8 @ 30'	- 1	8/22/17	3:20 PM 🖌	
52	SB7 @ 35'	G - V	8/23/17	8:45 AM	
53	SP7 @ 40'	0 -	8/23/17	8:51 AM	
hS A	SB7 @ 45'	61 10	8/23/17	8:58 AM	
SS	SB7 @ 50'	6-1	8/23/17	9:11 AM	
56	SB8 @ 35'	6 1 7	8/23/17	9:25 AM 🖌	
SI	SB8 @ 40'	61	8/23/17	9:33 AM 🖌	
85	SB8 @ 45'	6	8/23/17	9:41 AM 🖌	
-	SB9 @ 20'	20	-	10:30 AM	
PLEASE NOTE: Liability an analyses. All claims includin service. In no event shall Ca affiliates or successors arisin	liability and client's exclusive ren and any other cause whatsoever fental or consequental damages, an nerformance of services have	wely 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 appli including without limitation, business interruptions, loss of use, or loss of use, the scalared by client, its subadiatives, over the Cardinal another of unless or which any the scalar of the scalared by client. Its subadiatives,	t or tort, shall be limited to the amount paid d received by Cardinal within 30 days after loss of use, or loss of profits incurred by di	rount paid by the client for the days after completion of the applicable and by client, its subaidances.	
Relinquished By	Walas.	Received By:	Anex Nr.	REMARKS:	Add'l Phone #: Add'l Fax #:
Relinquished By	energ The	Received By:	Walter		
Delivered By: (Circle One)	1.80	Sample Condition	on CH		
Sampler - UPS	- Bus - Other: Porkentic		TO #15		
+ Cardinal o	Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	to fav written changes to t			

Page 22 of 23

101 East Mark (505) 393-2320	101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476			
Company Name: BBC Intern	BBC International, Inc.	BILL TO	AN	ANALYSIS REQUEST
	son	P.O. #:		
Address: P.O. Box 805		Company:		
	State: NM Zip: 88241	Attn: Brity Haskel		
Phone #: 575-397-6388	(J)	Address:		
Project #:	oject O	City:		
Project Name: West Brushy 8 line leak	8 line leak	State: Zip:		
Project Location: Eddy County, NM	ity, NM	Phone #:		
Sampler Name: Jeff Ornelas	las	Fax #:		
П		IX PRESERV. SAMPLING		
Lab I.D. Sam	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE		
// SB9 @ 23'	-	8/23/17	10:38 AM 🖌	
5 SB9 @ 25'	611	8/23/17 10	10:49 AM 🖌	
0-1	6119	8/23/17 11	11:11 AM 🖌	
64 SB9 @ 35'	611	8/23/17 11	11:19 AM 🖌	
65 SB9 @ 40'	611	8/23/17 11	11:33 AM 🗸	
	2			
	FIISE			
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any analyses. All claims including those for negligence and any other cause whateower shall be de-		remody for any claim arising whether based in contract or tort, shall be inhibit to the emount paid by the client for the period unless made in writing and reserved by Cautinal writin 30 days after completion of the applicable one unchange within the second version of the applicable one of the second version of the second version of the second version of the applicable one of the second version of the second ver	the client for the mpletion of the applicable Lts subsidiaries.	
affiliates or successors arising out of or related to the performa-	nce of services he	th claim is based upon any of the above stated reason		Id'I Phone #:
Relinquished By: VELOWLLS Relinquished By: Full By: Circle One	24	Снескер ву:	Result:	Add'l Phone #: Add'l Fax #:
Sampler - UPS - Bus - Other:	1.80 hout door	1		
† Cardinal cannot accept	† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	es to 505-393-2476		

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From:	Bratcher, Mike, EMNRD
То:	Cliff Brunson; Shelly Tucker
Cc:	Becky Haskell; Weaver, Crystal, EMNRD; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject:	RE: COG West Brushy 8 Line Leak (2RP-4330) - Delineation Workplan
Date:	Monday, October 30, 2017 11:53:07 AM

RE: COG * West Brushy 8 Fed 1 SWD Line Leak * **2RP-4330** * DOR: 7/27/17

Cliff,

Your proposal for remediation of the above referenced release is approved. It is OCD's understanding that BLM approval has been obtained.

Thank you,

Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210 575-748-1283 Ext 108

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: Friday, October 20, 2017 11:43 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Shelly Tucker <stucker@blm.gov>
Cc: Becky Haskell <rhaskell@concho.com>; Weaver, Crystal, EMNRD
<Crystal.Weaver@state.nm.us>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey
<jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>
Subject: COG West Brushy 8 Line Leak (2RP-4330) - Delineation Workplan

All,

Please find the attached Delineation Workplan and remediation proposal for the COG West Brushy 8 Line Leak (2RP-4330). This plan has been discussed with both the NMOCD and the BLM in meetings and all parties have agreed to the plan as presented. COG is requesting that you review this plan and is looking forward to both the OCD's and BLM's written approval.

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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From:	Tucker, Shelly
То:	Cliff Brunson
Cc:	Mike Bratcher; Becky Haskell; Crystal Weaver; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject:	Re: COG West Brushy 8 Line Leak (2RP-4330) - Delineation Workplan
Date:	Monday, October 23, 2017 10:23:32 AM

BLM accepts your work proposal as written. You are approved to begin remedial activities.

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

Sincerely,

Shelly J Tucker

Environmental Protection Specialist O&G Spill/Release Coordinator

Bureau of Land Management 620 E. Greene St Carlsbad, NM 88220

575.234.5905 - Direct 575.361.0084 - Cellular 575.234.6235 - Emergency Spill Number

stucker@blm.gov

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

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On Fri, Oct 20, 2017 at 11:43 AM, Cliff Brunson < <u>cbrunson@bbcinternational.com</u>> wrote:

All,

Please find the attached Delineation Workplan and remediation proposal for the COG West Brushy 8 Line Leak (2RP-4330). This plan has been discussed with both the NMOCD and the BLM in meetings and all parties have agreed to the plan as presented. COG is requesting that you review this plan and is looking forward to both the OCD's and BLM's written

approval.

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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Released to Imaging: 9/11/2024 9:46:24 AM

Received by OCD: 9/11/2024 9:31:25 AM































































From:	Kathy Purvis
То:	Bratcher, Mike, EMNRD; "Tucker, Shelly"
Cc:	<u>"Rebecca Haskell"; "DeAnn Grant"; cbrunson@bbcinternational.com; kswinney@bbcinternational.com; jgilkey@bbcinternational.com</u>
Subject:	Closure Report, West Brushy 8 Federal SWD #001 (7-27-17)
Date:	Thursday, April 5, 2018 4:51:39 PM
Attachments:	Closure report, West Brushy 8 Federal SWD #001 (7-27-17).pdf

Attached is the closure report for a leak that occurred at the West Brushy 8 Federal SWD #001 on 07/27/2017 in Eddy County, NM. Receipt notification and closure approval via email are greatly appreciated. The RP number for this event is 2RP-4330.

Kathy Purvis

BBC International, Inc. 1324 W. Marland Blvd. Hobbs, NM 88240 Business: (575) 397-6388 Cell: (575) 441-8619 *kathy@bbcinternational.com*

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:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	382502
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
bhall	Closure approved. This closure report is a historical report found by OCD. Closure approval is based on approved remediation plan from 2017 being completed.	9/11/2024
bhall	If you are not the appropriate contact, please forward this approval to the appropriate person.	9/11/2024

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Action 382502