



DELINEATION WORKPLAN

COG – WEST BRUSHY 8 LINE LEAK (Leak Date: 7/27/17)

**RP # 2RP-4330
API # 30-015-31675**

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4330.

The following information includes:

1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
2. GPS information for sample points and sample methodology
3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
4. Laboratory analysis results summary table and original laboratory analysis reports
5. A copy of the initial C-141
6. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

COG will excavate the spill area as depicted on the following site diagram. The leak area near SP1 and SP2 (orange shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP3, SP6, and SP7 (green shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP4 and SP14 (pink shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP8, SB1, SP9, SB2, SP10, SB3, SP11, SB9, SP12, SB4 SP5, SB5 SP13, SB6, SP15, and SP16 (blue shade on diagram) will be excavated to a depth of 4 feet and then bentonite clay will be installed in the excavation and backfilled with caliche and then a cap of top soil. The leak area near SP17, SB7, SP18 and SB8 will be surface scraped.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.

COG, West Brushy 8 line leak

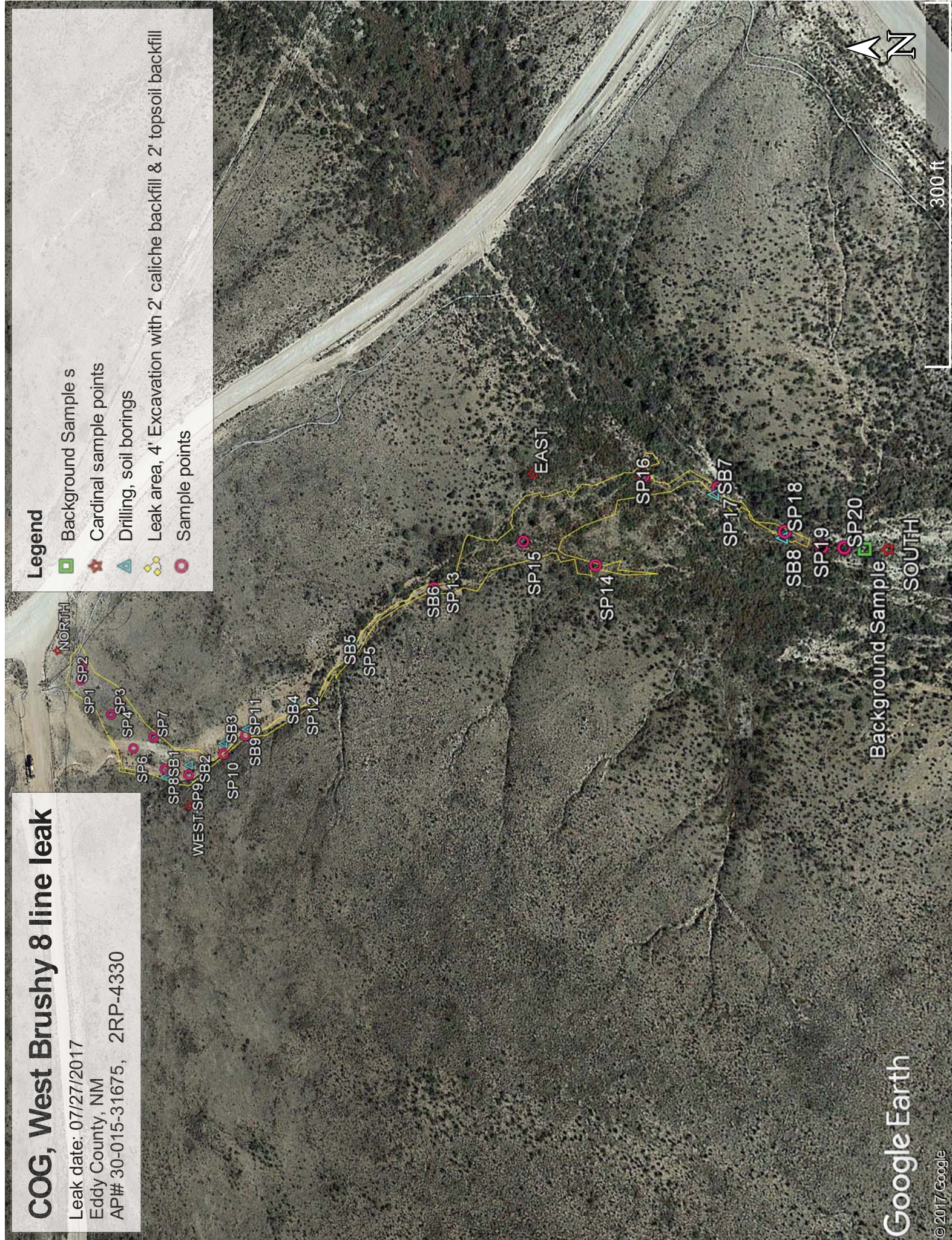
Leak date: 07/27/2017

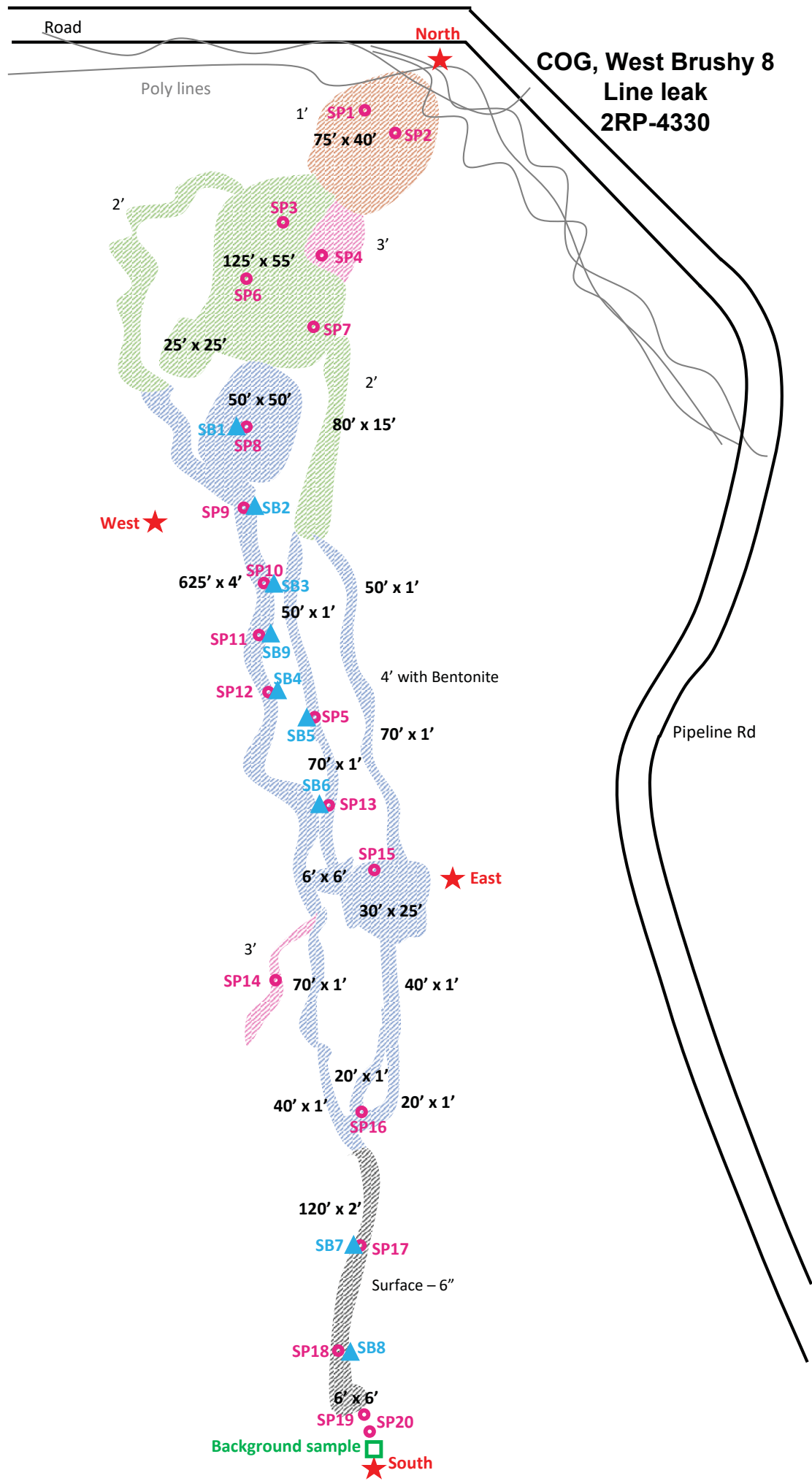
Eddy County, NM

AP# 30-015-31675, 2RP-4330

Legend

- Background Sample s
- Cardinal sample points
- Drilling, soil borings
- Leak area, 4' Excavation with 2' caliche backfill & 2' topsoil backfill
- Sample points





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-103.979723

DRILLING, SOIL BORINGS

SB5, N 32.08316 W-103.98002

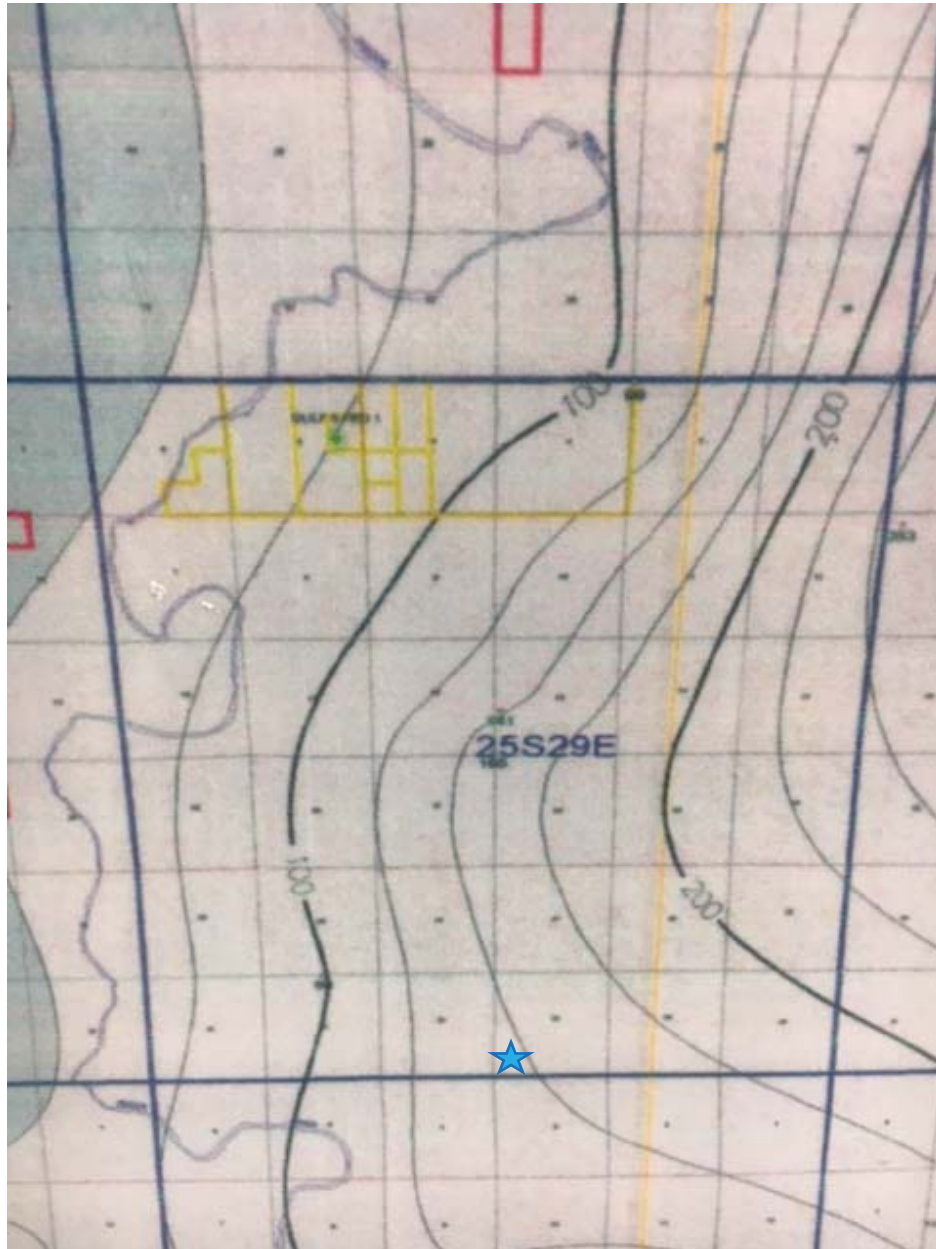
SB1, N 32.08400 W-103.98057
SB2, N 32.08389 W-103.98051
SB3, N 32.08372 W-103.98041
SB9, N 32.08361 W-103.98035
SB4, N 32.08340 W-103.98025
SB6, N 32.08283 W-103.97985

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

COG, West Brushy 8 Line leak

U/L M, Section 34, T25S, R29E

Groundwater: 125'150'





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

Public Land Survey System (PLSS)

☐

Q64:

Q16:

SW

Q4:

SW

Sec:

34

Tws:

25S

Rng:

29E

State Plane Coordinate System - NAD27

☐

X:

0

ft

Y:

0

ft

Zone:

State Plane Coordinate System - NAD83

☐

X:

0

ft

Y:

0

ft

Zone:

Degrees/Minutes/Seconds

☐

Longitude (X):

Degrees:

0

°

Minutes:

0

'

Seconds:

0

"

Latitude (Y):

Degrees:

0

°

Minutes:

0

'

Seconds:

0

"

UTM - NAD27

☐

Easting (X):

0

mtrs

Northing (Y):

0

mtrs

Zone:

SUBMIT

All Conversion Results are displayed as NAD 1983 UTM Zone 13

Easting (X):

596400.0

mtrs

Northing (Y):

3549844.0

mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~

Laboratory Analytical Results Summary
West Brushy 8 Line Leak

Analyte	Method	Sample Date	Background @ Surface 7/29/17	Background @ 1' 7/29/17	Background @ 2' 7/29/17	Background @ 3' 7/29/17	Background @ 4' 7/29/17	Background @ 5' 7/29/17	Background @ 10' 7/29/17	Background @ 15' 7/29/17
Benzene	BTEX 8021B		mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050
Toluene	BTEX 8021B		mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050
Ethylbenzene	BTEX 8021B		mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050
Total Xylenes	BTEX 8021B		mg/Kg <0.150	mg/Kg <0.150	mg/Kg <0.150	mg/Kg <0.150	mg/Kg <0.150	mg/Kg <0.150	mg/Kg <0.150	mg/Kg <0.150
Total BTEX	BTEX 8021B		mg/Kg <0.300	mg/Kg <0.300	mg/Kg <0.300	mg/Kg <0.300	mg/Kg <0.300	mg/Kg <0.300	mg/Kg <0.300	mg/Kg <0.300
Chloride	SM4500(Cl-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

Laboratory Analytical Results Summary
West Brushy 8 Line leak

Analyte	Method	Sample		SP1 @ 1'		SP1 @ 2'		SP1 @ 3'	
		Date		8/2/17	mg/kg	8/2/17	mg/kg	8/2/17	mg/kg
Benzene	BTEX 8021B								
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	SM4500Cl-B				2120	96	96	96	96
GRO	TPH 8015M				<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M				11.9	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M				<10.0	n/a	n/a	n/a	n/a

Analyte	Method	Sample		SP2 @ 1'		SP2 @ 2'		SP2 @ 3'	
		Date		8/2/17	mg/kg	8/2/17	mg/kg	8/2/17	mg/kg
Chloride	SM4500Cl-B				2400	80	80	80	80

Analyte	Method	Sample		SP3 @ 1'		SP3 @ 2'		SP3 @ 3'		SP3 @ 4'		SP3 @ 9'	
		Date		8/2/17	mg/kg	8/2/17	mg/kg	8/2/17	mg/kg	8/2/17	mg/kg	8/2/17	mg/kg
Benzene	BTEX 8021B				<0.050	n/a	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	n/a
Ethylbenzene	BTEX 8021B				<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B				<0.150	n/a	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	n/a
Chloride	SM4500Cl-B				4400	2080	464	128	96	96	96	96	96
GRO	TPH 8015M				<10.0	n/a	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	n/a
EXT DRO	TPH 8015M				<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample		SP4 @ 1'		SP4 @ 2'		SP4 @ 3'		SP4 @ 4'		SP4 @ 9'	
		Date		8/2/17	mg/kg	8/2/17	mg/kg	8/3/17	mg/kg	8/3/17	mg/kg	8/3/17	mg/kg
Chloride	SM4500Cl-B				3640	2680	1140	48	48	48	48	48	48

Analyte	Method	Sample		SP5 @ 2'		SP5 @ 4'		SP5 @ 7'		SP5 @ 10'		SP5 @ 13'		SP5 @ 16'		SP5 @ 18'	
		Date		8/3/17	mg/kg	8/3/17	mg/kg	8/3/17	mg/kg	8/3/17	mg/kg	8/3/17	mg/kg	8/3/17	mg/kg	8/3/17	mg/kg
Chloride	SM4500Cl-B				7760	5680	4480	6000	3440	5120	10700	10700	10700	10700	10700	10700	10700

Analyte	Method	Sample		SP6 @ 1'		SP6 @ 2'		SP6 @ 3'		SP6 @ 4'		SP6 @ 9'	
		Date		8/3/17	mg/kg	8/3/17	mg/kg	8/3/17	mg/kg	8/3/17	mg/kg	8/3/17	mg/kg
Benzene	BTEX 8021B				<0.050	n/a	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	n/a
Ethylbenzene	BTEX 8021B				<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B				<0.150	n/a	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	n/a
Chloride	SM4500Cl-B				2880	2760	672	48	32	32	32	32	32
GRO	TPH 8015M				<10.0	n/a	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	n/a
EXT DRO	TPH 8015M				<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Laboratory Analytical Results Summary
West Brushy 8 Line leak

	Sample	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'	SP7 @ 9'
Analyte	Method	Date	8/4/17	8/4/17	8/4/17	8/4/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500C1-B		6160	3640	864	48
						32

	Sample	SP8 @ 1'	SP8 @ 3'	SP8 @ 6'	SP8 @ 9'	SP8 @ 12'	SP8 @ 15'	SP8 @ 18'
Analyte	Method	Date	8/4/17	8/4/17	8/4/17	8/4/17	8/4/17	8/4/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500C1-B		11900	12900	10700	12800	11500	11500

	Sample	SP9 @ 1'	SP9 @ 4'	SP9 @ 8'	SP9 @ 12'	SP9 @ 15'	SP9 @ 17'	SP9 @ 18'
Analyte	Method	Date	8/4/17	8/4/17	8/4/17	8/4/17	8/4/17	8/4/17
			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
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	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
Chloride	SM4500C1-B		13900	17600	8660	1330	704	752
GRO	TPH 8015M		<10.0	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
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a

	Sample	SP10 @ 1'	SP10 @ 4'	SP10 @ 8'	SP10 @ 12'	SP10 @ 15'	SP10 @ 18'
Analyte	Method	Date	8/4/17	8/4/17	8/4/17	8/4/17	8/4/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500C1-B		5440	9600	10100	10400	11300

	Sample	SP11 @ 1'	SP11 @ 4'	SP11 @ 8'	SP11 @ 12'	SP11 @ 14'	SP11 @ 15'	SP11 @ 16'	SP11 @ 17'	SP11 @ 18'
Analyte	Method	Date	8/7/17	8/7/17	8/7/17	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	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500C1-B		9600	14200	6000	10300	560	528	416	64

	Sample	SP12 @ 1'	SP12 @ 3'	SP12 @ 5'	SP12 @ 9'	SP12 @ 12'	SP12 @ 15'	SP12 @ 18'
Analyte	Method	Date	8/7/17	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	mg/Kg
Chloride	SM4500C1-B		5860	5600	5860	4400	10500	6800

	Sample	SP13 @ 1'	SP13 @ 3'	SP13 @ 6'	SP13 @ 9'	SP13 @ 12'	SP13 @ 15'	SP13 @ 18'
Analyte	Method	Date	8/7/17	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	mg/Kg
Benzene	BTEX 8021B		<0.050	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
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	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
Chloride	SM4500C1-B		11900	10700	4200	8800	3840	2080
GRO	TPH 8015M		<10.0	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
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a

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	SM4500C1-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'	SP15 @ 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	8/8/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500C1-B		9600	8800	8800	8530	6530	960	1300	464	160

		Sample	SP16 @ 1'	SP16 @ 3'	SP16 @ 5'	SP16 @ 9'	SP16 @ 12'	SP16 @ 14'	SP16 @ 15'	SP16 @ 16'	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	8/8/17
			mg/Kg	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	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	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	n/a
Chloride	SM4500C1-B		9330	10800	10500	8130	608	1220	64	48	48
GRO	TPH 8015M		<10.0	n/a	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	n/a
EXT DRO	TPH 8015M		<10.0	n/a	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 @ 17'	SP17 @ 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	8/8/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500C1-B		96	112	128	128	160	32	16	<16.0	<16.0

		Sample	SP18 @ 1'	SP18 @ 2'	SP18 @ 3'	SP18 @ 5'	SP18 @ 7'	SP18 @ 8'	SP18 @ 13'	SP18 @ 17'	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	8/8/17
			mg/Kg	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	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	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	n/a
Chloride	SM4500C1-B		112	96	112	160	128	32	16	32	32
GRO	TPH 8015M		<10.0	n/a	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	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Laboratory Analytical Results Summary
West Brushy 8 Line leak

Analyte	Method	Sample Date	SP19 @ SURFACE	SP19 @ 5'	SP19 @ 10'
			8/8/17 mg/kg	8/8/17 mg/kg	8/8/17 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	SM4500Cl-B		32	<16.0	<16.0
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a

Analyte	Method	Sample Date	SP20 @ SURFACE	SP20 @ 5'	SP20 @ 10'
			8/8/17 mg/kg	8/8/17 mg/kg	8/8/17 mg/kg
Chloride	SM4500Cl-B		<16.0	<16.0	<16.0

Analyte	Method	Sample Date	NORTH @ SURFACE
			8/8/17 mg/kg
Chloride	SM4500Cl-B		80

Analyte	Method	Sample Date	EAST @ SURFACE
			8/8/17 mg/kg
Chloride	SM4500Cl-B		64

Analyte	Method	Sample Date	WEST @ SURFACE
			8/8/17 mg/kg
Chloride	SM4500Cl-B		48

Analyte	Method	Sample Date	SOUTH @ SURFACE
			8/8/17 mg/kg
Chloride	SM4500Cl-B		64

Laboratory Analytical Results Summary
West Brushy 8 line leak

		Sample	SB1 @ 20'	SB1 @ 22'	SB1 @ 25'	SB1 @ 30'	SB1 @ 35'	SB1 @ 40'
Analyte	Method	Date	8/21/17	8/21/17	8/21/17	8/21/17	8/21/17	8/21/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CH-B		1600	704	192	144	192	112

		Sample	SB2 @ 20'	SB2 @ 22'	SB2 @ 25'	SB2 @ 30'	SB2 @ 35'	SB2 @ 40'	SB2 @ 45'	SB2 @ 50'	SB2 @ 55'	SB2 @ 60'	SB2 @ 65'
Analyte	Method	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	8/21/17	8/21/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CH-B		5730	4660	1170	448	112	960	528	80	112	96	192

		Sample	SB3 @ 20'	SB3 @ 22'	SB3 @ 25'	SB3 @ 30'	SB3 @ 35'	SB3 @ 40'
Analyte	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	SM4500CH-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	SM4500CH-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	SM4500CH-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	SM4500CH-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	SM4500CH-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	SM4500CH-B		48	32	16	64	64	32	32

		Sample	SB9 @ 20'	SB9 @ 23'	SB9 @ 25'	SB9 @ 30'	SB9 @ 35'	SB9 @ 40'
Analyte	Method	Date	8/23/17	8/23/17	8/23/17	8/23/17	8/23/17	8/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CH-B		4240	96	128	96	128	80

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 accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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		Analyzed 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		Analyzed 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		Analyzed 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 % 28.3-164

Surrogate: 1-Chlorooctadecane 77.9 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	07/31/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	16.0	16.0	07/31/2017	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 79.2 % 34.7-157

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Analytical Results For:

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

Received:	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)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	07/31/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500CI-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	07/31/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.2 % 34.7-157

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Analytical Results For:

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

Received:	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)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	07/31/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	32.0	16.0	07/31/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 79.9 % 34.7-157

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Analytical Results For:

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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)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	07/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.8 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 @ 5 (H701986-06)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	07/31/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 28.3-164

Surrogate: 1-Chlorooctadecane 81.1 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 @ 10 (H701986-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	07/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

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	07/31/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.0 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 @ 15 (H701986-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 72-148

Chloride, SM4500CI-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	07/31/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 72.9 % 34.7-157

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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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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

corrected: 25

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 accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	08/10/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	2120	16.0	08/08/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.7 % 34.7-157

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Analytical Results For:

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

Received:	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		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: SP1 @ 3' (H702069-03)

Chloride, SM4500CI-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: SP2 @ 1' (H702069-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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		Analyzed 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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Analytical Results For:

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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		Analyzed 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 % 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		Analyzed 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 % 28.3-164

Surrogate: 1-Chlorooctadecane 81.2 % 34.7-157

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Analytical Results For:

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

Received:	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		Analyzed 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		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		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		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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Analytical Results For:

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: SP4 @ 2' (H702069-13)

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	08/08/2017	ND	432	108	400	0.00		

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

Chloride, SM4500CI-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, SM4500CI-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, SM4500CI-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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Analytical Results For:

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

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, SM4500CI-B		mg/kg		Analyzed 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, SM4500CI-B		mg/kg		Analyzed 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, SM4500CI-B		mg/kg		Analyzed 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, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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		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	0.00		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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		Analyzed 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 % 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	2880	16.0	08/08/2017	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 94.5 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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		Analyzed 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, SM4500CI-B		mg/kg		Analyzed 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		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	464	116	400	0.00	

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

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	08/08/2017	ND	464	116	400	0.00		

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

Chloride, SM4500Cl-B		mg/kg		Analyzed 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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Analytical Results For:

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Cliff Brunson
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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		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	464	116	400	0.00		

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

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	464	116	400	0.00		

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

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	08/08/2017	ND	464	116	400	0.00		

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

Chloride, SM4500Cl-B		mg/kg		Analyzed 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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Analytical Results For:

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		Analyzed 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		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	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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Analytical Results For:

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

Received: 08/07/2017
Reported: 08/11/2017
Project Name: WEST BRUSHY 8 LINE LEAK
Project Number: NONE GIVEN
Project Location: MALAGA, NM

Sampling Date: 08/04/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

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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Analytical Results For:

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: SP9 @ 1' (H702069-41)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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		Analyzed 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		Analyzed 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 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.9 % 34.7-157

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Analytical Results For:

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

Received:	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		Analyzed 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, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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		Analyzed 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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Analytical Results For:

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: SP9 @ 18' (H702069-47)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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, SM4500CI-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, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9600	16.0	08/08/2017	ND	464	116	400	7.14		

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

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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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Analytical Results For:

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: SP10 @ 15' (H702069-52)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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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Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.										Bill To										ANALYSIS REQUEST									
Project Manager: Cliff Brunson										P.O. #:										Company: CCG									
Address: P.O. Box 805										State: NM										Zip: 88241									
City: Hobbs										Attn: Rocky Haskell										Address:									
Phone #: 575-397-6388										Fax #: 575-397-0397										City:									
Project #:										State:										Zip:									
Project Name: West Brushy 8 line leak										Phone #:										Fax #:									
Project Location: Eddy County, NM										Sample Name: Jeff Ornelas										FOR LAB USE ONLY									
Lab I.D.										Sample I.D.										Matrix									
1. SP1 @ 1'										(G)RAB OR (C)OMP.										# CONTAINERS									
2. SP1 @ 2'										GROUNDWATER										WASTEWATER									
3. SP1 @ 3'										SOIL										OIL									
4. SP2 @ 1'										SLUDGE										OTHER :									
5. SP2 @ 2'										ACID/BASE:										ICE / COOL									
6. SP2 @ 3'										OTHER :										DATE									
7. SP3 @ 1'										TIME										TIME									
8. SP3 @ 2'										1:11 PM										1:25 PM									
9. SP3 @ 3'										8/2/17										1:40 PM									
10. SP3 @ 4'										8/2/17										1:49 PM									
11. SP3 @ 4'										8/2/17										1:59 PM									
12. SP3 @ 4'										8/2/17										2:15 PM									
13. SP3 @ 4'										8/2/17										2:30 PM									
14. SP3 @ 4'										8/2/17										2:50 PM									
15. SP3 @ 4'										8/2/17										3:07 PM									
16. SP3 @ 4'										8/2/17										3:18 PM									
17. SP3 @ 4'										8/2/17										3:18 PM									
18. SP3 @ 4'										8/2/17										3:18 PM									
19. SP3 @ 4'										8/2/17										3:18 PM									
20. SP3 @ 4'										8/2/17										3:18 PM									
21. SP3 @ 4'										8/2/17										3:18 PM									
22. SP3 @ 4'										8/2/17										3:18 PM									
23. SP3 @ 4'										8/2/17										3:18 PM									
24. SP3 @ 4'										8/2/17										3:18 PM									
25. SP3 @ 4'										8/2/17										3:18 PM									
26. SP3 @ 4'										8/2/17										3:18 PM									
27. SP3 @ 4'										8/2/17										3:18 PM									
28. SP3 @ 4'										8/2/17										3:18 PM									
29. SP3 @ 4'										8/2/17										3:18 PM									
30. SP3 @ 4'										8/2/17										3:18 PM									
31. SP3 @ 4'										8/2/17										3:18 PM									
32. SP3 @ 4'										8/2/17										3:18 PM									
33. SP3 @ 4'										8/2/17										3:18 PM									
34. SP3 @ 4'										8/2/17										3:18 PM									
35. SP3 @ 4'										8/2/17										3:18 PM									
36. SP3 @ 4'										8/2/17										3:18 PM									
37. SP3 @ 4'										8/2/17										3:18 PM									
38. SP3 @ 4'										8/2/17										3:18 PM									
39. SP3 @ 4'										8/2/17										3:18 PM									
40. SP3 @ 4'										8/2/17										3:18 PM									
41. SP3 @ 4'										8/2/17										3:18 PM									
42. SP3 @ 4'										8/2/17										3:18 PM									
43. SP3 @ 4'										8/2/17										3:18 PM									
44. SP3 @ 4'										8/2/17										3:18 PM									
45. SP3 @ 4'										8/2/17										3:18 PM									
46. SP3 @ 4'										8/2/17										3:18 PM									
47. SP3 @ 4'										8/2/17										3:18 PM									
48. SP3 @ 4'										8/2/17										3:18 PM									



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:		BILL TO										ANALYSIS REQUEST													
Project Manager: Cliff Brunson		Company: CC																									
Address: P.O. Box 805		Attn: Becky Haskell																									
City: Hobbs		Address:																									
State: NM Zip: 88241																											
Phone #: 575-397-6388 Fax #: 575-397-0397																											
Project #: Project Owner: CC																											
Project Name: West Brushy 8 line leak		State: Zip:																									
Project Location: Eddy County, NM		Phone #:																									
Sample Name: Jeff Ornelas		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV		SAMPLING															
								GROUNDWATER																			
								WASTEWATER																			
								SOIL																			
								OIL																			
								SLUDGE																			
								OTHER :																			
								ACID/BASE:																			
								ICE / COOL																			
								OTHER :																			
								DATE		TIME																	
11 • SP3 @ 9'								8/2/17		3:33 PM																	
12 • SP4 @ 1'								8/2/17		3:35 PM																	
13 • SP4 @ 2'								8/2/17		3:39 PM																	
14 • SP4 @ 3'								8/2/17		3:45 PM																	
15 • SP4 @ 4'								8/3/17		9:49 AM																	
16 • SP4 @ 9'								8/3/17		10:09 AM																	
17 • SP5 @ 2'								8/3/17		10:38 AM																	
18 • SP5 @ 4'								8/3/17		10:58 AM																	
19 • SP5 @ 7'								8/3/17		11:19 AM																	
20 • SP5 @ 10'								8/3/17		11:29 AM																	
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Delivered By: (Circle One) 3.42		Projected 5.65		Cool		Intact		Yes		Yes		No		No		70.475											
Sampler - UPS - Bus - Other:																											

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARKS: At only Rush

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4/8/17

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: West Brushy 8 line leak

Project Location: Eddy County, NM

Sampler Name: Jeff Ornelas

FOR LAB USE ONLY

P.O. #:

Company: COE

Attn: Betty Haskell

Address:

City:

State:

Zip:

Phone #:

Fax #:

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

✓

✓

✓

✓

✓

✓

✓

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✓

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Relinquished By:

Jeff Ornelas

Date: 8/4/17

Time: 3:00 PM

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

CL only flush

Relinquished By:

Jeff Ornelas

Date: 8/4/17

Time: 3:05 PM

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

CL only flush

Delivered By: (Circle One) 3:42

Sample Condition

Cool Intact

Yes Yes

Checked By: (Initials)

70.75

Sampler - UPS - Bus - Other:

Corrected 3:05

70.75

CL only flush

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CARDINAL LABORATORIES

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(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

10/16

Company Name: BBC International, Inc.		P.O. #:		BILL TO																					
Project Manager: Cliff Brunson		Company: CC		ANALYSIS REQUEST																					
Address: P.O. Box 805		Attn: Becky Hasballe																							
City: Hobbs		Address:																							
Phone #: 575-397-6388		City:																							
Fax #: 575-397-0397		State:																							
Project #: CC		Zip:																							
Project Name: West Brushy 8 line leak		Phone #:																							
Project Location: Eddy County, NM		Fax #:																							
Sampler Name: Jeff Ornelas																									
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV	SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE																	
				OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE			TIME														
				SP10 @ 12'	SP10 @ 15'	SP10 @ 18'	8/4/17	2:15 PM			✓														
				51.	52.	53.	8/4/17	2:31 PM			✓														
DATE: 8/4/17																									
Time: 5:30 PM																									
Relinquished By: V. H. Williams		Received By: [Signature]																							
Date: 8/4/17		Date: 8/4/17																							
Time: 5:30 PM		Time: 5:30 PM																							
Relinquished By: [Signature]		Received By: [Signature]																							
Date: 8-7-17		Date: 8-7-17																							
Time: 3:05 PM		Time: 3:05 PM																							
Delivered By: (Circle One) 3:48		Sample Condition																							
Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		CHECKED BY: [Signature]																							
Sampler - UPS - Bus - Other: 3:05 PM		Initials: [Signature]																							
REMARKS: CL only Rush																									

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

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 accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	11900	16.0	08/10/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.4 % 34.7-157

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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		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		

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

Chloride, SM4500CI-B		mg/kg		Analyzed 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, SM4500CI-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, SM4500CI-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	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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		Analyzed 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 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.8 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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, SM4500CI-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	448	112	400	0.00		

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

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 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

Analytical Results For:

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 11 @ 4' (H702090-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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		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		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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Analytical Results For:

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 11 @ 16' (H702090-19)

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		

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

Chloride, SM4500Cl-B		mg/kg		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		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		Analyzed 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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Cliff Brunson
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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 12 @ 5' (H702090-24)

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 @ 9' (H702090-25)

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

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

Chloride, SM4500CI-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, SM4500CI-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		Analyzed 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		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	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		Analyzed 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		Analyzed 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		Analyzed 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 % 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	9330	16.0	08/10/2017	ND	448	112	400	3.51	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.9 % 34.7-157

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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 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		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	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		Analyzed 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		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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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		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	448	112	400	3.51		

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

Chloride, SM4500CI-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	448	112	400	3.51	

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

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	08/10/2017	ND	448	112	400	3.51		

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

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	08/10/2017	ND	448	112	400	3.51		

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

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	08/10/2017	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		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		

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

Chloride, SM4500CI-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	

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

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	448	112	400	3.51		

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

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	448	112	400	3.51		

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

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	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		Analyzed 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 % 72-148

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 79.3 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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		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 18 @ 3' (H702090-56)

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

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

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	480	120	400	14.3	

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/10/2017	ND	480	120	400	14.3		

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

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	08/10/2017	ND	480	120	400	14.3	

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Analytical Results For:

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

Received:	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		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 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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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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		Analyzed 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 % 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	32.0	16.0	08/10/2017	ND	480	120	400	14.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 80.3 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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		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 19 @ 10' (H702090-64)

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	08/10/2017	ND	480	120	400	14.3	

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

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	08/10/2017	ND	480	120	400	14.3		

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

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	08/10/2017	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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Analytical Results For:

 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		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	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		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	480	120	400	14.3		

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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 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



Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

184

BILL TO										ANALYSIS REQUEST														
Company Name: BBC International, Inc.										P.O. #:														
Project Manager: Cliff Brunson										Company: COG														
Address: P.O. Box 805										Attn: Becky Hunsell														
City: Hobbs										Address:														
State: NM Zip: 88241										City:														
Phone #: 575-397-6388 Fax #: 575-397-0397										State: Zip:														
Project #: Project Owner: COG										Phone #: Fax #:														
Project Name: West Brushy 8 Line leak										Sample Name: Jeff Ornelas														
Project Location: Eddy County, NM										FOR LAB USE ONLY														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV		SAMPLING														
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	CI	BTEX	TPH EXT							
1	SP13 @ 1'	G	1										8/7/17	8:31 AM	✓	✓	✓							
2	SP13 @ 3'	G	1										8/7/17	8:37 AM	✓									
3	SP13 @ 6'	G	1										8/7/17	8:51 AM	✓									
4	SP13 @ 9'	G	1										8/7/17	9:07 AM	✓									
5	SP13 @ 12'	G	1										8/7/17	9:33 AM	✓									
6	SP13 @ 15'	G	1										8/7/17	10:05 AM	✓									
7	SP13 @ 18'	G	1										8/7/17	10:30 AM	✓									
8	SP14 @ 1'	G	1										8/7/17	10:46 AM	✓	✓								
9	SP14 @ 3'	G	1										8/7/17	10:50 AM	✓									
10	SP14 @ 4'	G	1										8/7/17	10:55 AM	✓									

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>8/18/17</i>	Received By: <i>Becky Hunsell</i>	Date: <i>8/18/17</i>
Relinquished By: <i>Becky Hunsell</i>	Date: <i>8/18/17</i>	Received By: <i>Becky Hunsell</i>	Date: <i>8/18/17</i>
Time: <i>4:35</i>	Time: <i>4:35</i>	Time: <i>4:35</i>	Time: <i>4:35</i>
Delivered By: (Circle One) <i>UPS</i>	Sample Condition <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Broken	Checked By: <i>Becky Hunsell</i>	Initials: <i>BH</i>
Sampler - UPS - Bus - Other: <i>#75 - 5.150</i>	Spot Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #: <i>Push - Cl only!</i>
REMARKS: <i>Push - Cl only!</i>			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476
-4.9% corrected +.25



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 8

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: West Brushy 8 Line leak

Project Location: Eddy County, NM

Sample Name: Jeff Ornelas

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

Lab I.D.

Sample I.D.

HH02090

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :											
11	SP14 @ 9'		1								8/7/17	11:01 AM	✓							
12	SP14 @ 14'		1								8/7/17	11:11 AM	✓							
13	SP11 @ 1'		1								8/7/17	11:20 AM	✓							
14	SP11 @ 4'		1								8/7/17	11:30 AM	✓							
15	SP11 @ 8'		1								8/7/17	11:51 AM	✓							
16	SP11 @ 12'		1								8/7/17	12:30 PM	✓							
17	SP11 @ 14'		1								8/7/17	12:50 PM	✓							
18	SP11 @ 15'		1								8/7/17	1:12 PM	✓							
19	SP11 @ 16'		1								8/7/17	1:15 PM	✓							
20	SP11 @ 17'		1								8/7/17	1:22 PM	✓							

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Relinquished By:

Date: 8/8/17

Time: 3:30pm

Received By:

Jeff Ornelas

Phone Result:

Yes ☐ No ☐

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date: 8/9/17

Time: 1:35

Received By:

Jeff Ornelas

Phone Result:

Yes ☐ No ☐

Add'l Phone #:

Add'l Fax #:

Delivered By: (Circle One)

UPS ☒ Bus ☐ Other: #75

Time: 5:15pm

Sample Condition

Intact ☒ Damaged ☐

Checked By:

Yes ☒ No ☐

Add'l Phone #:

Add'l Fax #:

Sampler - UPS - Bus - Other: #75

Time: 5:15pm

Sample Condition

Intact ☒ Damaged ☐

Checked By:

Phone Result:

Yes ☒ No ☐

Add'l Phone #:

Add'l Fax #:

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-4.9c

corrected 4.25



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.
Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: West Brushy 8 Line leak

Project Location: Eddy County, NM

Sampler Name: Jeff Ornelas

P.O. #:

Company: COG

Attn: Becky Haskell

Address:

City:

State:

Zip:

Phone #:

Fax #:

Lab I.D.

Sample I.D.

4102040

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	ANALYSIS REQUEST									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE															
21	SP1 @ 18'	✓	1	✓								8/7/17	1:33 PM	✓									
22	SP12 @ 1'	✓	1	✓								8/7/17	1:35 PM	✓									
23	SP12 @ 3'	✓	1	✓								8/7/17	1:29 PM	✓									
24	SP12 @ 5'	✓	1	✓								8/7/17	1:48 PM	✓									
25	SP12 @ 9'	✓	1	✓								8/7/17	1:59 PM	✓									
26	SP12 @ 12'	✓	1	✓								8/7/17	2:29 PM	✓									
27	SP12 @ 15'	✓	1	✓								8/7/17	2:54 PM	✓									
28	SP12 @ 18'	✓	1	✓								8/7/17	3:30 PM	✓									
29	SP15 @ 1'	✓	1	✓								8/8/17	8:46 AM	✓									
30	SP15 @ 3'	✓	1	✓								8/8/17	8:48 AM	✓									

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Relinquished By:

Date: 8/8/17

Time: 5:30pm

Received By: Jackie Brunson

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Relinquished By:

Date: 8/9/17

Time: 4:35

Received By: Jackie Brunson

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Delivered By: (Circle One)

UPS

Bus

Other

Sample Condition

Cool Intact

Yes

No

Checked By: Jackie Brunson

Signature

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

- 4.9c

corrected +.25c



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(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.
Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: West Brushy 8 Line leak

Project Location: Eddy County, NM

Sampler Name: Jeff Ornelas

P.O. #:

Company: *OG*

Attn: *Betty Haskell*

Address:

City:

State:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

4702090

SP15 @ 5'

SP15 @ 9'

SP15 @ 12'

SP15 @ 15'

SP15 @ 16'

SP15 @ 17'

SP15 @ 18'

SP16 @ 1'

SP16 @ 3'

SP16 @ 5'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

CI

BTEX

TPH EXT

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Relinquished By:

Date: *8/17*

Received By:

Date: *8/17*

Time: *3:30 PM*

Signature: *Justin Sherry 1/1r*

Relinquished By:

Date: *8/17*

Received By:

Date: *8/17*

Time: *4:35*

Signature: *Justin Sherry 1/1r*

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: *#75*

Sample Condition

Cool ☒ Intact ☒

CHECKED BY:

Signature: *Justin Sherry 1/1r*

REMARKS:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

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

-4.9°C corrected to 1.25°C



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.
Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: West Brushy 8 Line leak

Project Location: Eddy County, NM

Sampler Name: Jeff Ornelas

P.O. #:

Company: *COG*

Attn: *Recky Hustell*

Address:

City:

State:

Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H102090

41 SP16 @ 9'

42 SP16 @ 12'

43 SP16 @ 14'

44 SP16 @ 15'

45 SP16 @ 18'

46 SP17 @ 1'

47 SP17 @ 2'

48 SP17 @ 3'

49 SP17 @ 5'

50 SP17 @ 7'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

8/8/17

11:22 AM

8/8/17

11:33 AM

8/8/17

11:45 AM

8/8/17

11:55 AM

8/8/17

12:12 PM

8/8/17

12:45 PM

8/8/17

12:55 PM

8/8/17

12:59 PM

8/8/17

1:05 PM

8/8/17

1:11 PM

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Relinquished By:

Date: *8/8/17*

Time: *5:30 PM*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Time: *4:35*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/8/17*

Time: *5:30 PM*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Time: *4:35*

Received By:

Date: *8/9/17*

Time: *4:35*

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: *#75 - 5:15 PM*

Date: *8/8/17*

Time: *5:30 PM*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Time: *4:35*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/8/17*

Time: *5:30 PM*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Time: *4:35*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Relinquished By:

Date: *8/8/17*

Time: *5:30 PM*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Time: *4:35*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Relinquished By:

Date: *8/8/17*

Time: *5:30 PM*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Time: *4:35*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Relinquished By:

Date: *8/8/17*

Time: *5:30 PM*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Time: *4:35*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Relinquished By:

Date: *8/8/17*

Time: *5:30 PM*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Time: *4:35*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Relinquished By:

Date: *8/8/17*

Time: *5:30 PM*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Time: *4:35*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Relinquished By:

Date: *8/8/17*

Time: *5:30 PM*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Time: *4:35*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Relinquished By:

Date: *8/8/17*

Time: *5:30 PM*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Time: *4:35*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Relinquished By:

Date: *8/8/17*

Time: *5:30 PM*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Time: *4:35*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Relinquished By:

Date: *8/8/17*

Time: *5:30 PM*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Time: *4:35*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Relinquished By:

Date: *8/8/17*

Time: *5:30 PM*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Time: *4:35*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Relinquished By:

Date: *8/8/17*

Time: *5:30 PM*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Time: *4:35*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Relinquished By:

Date: *8/8/17*

Time: *5:30 PM*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Time: *4:35*

Received By:

Date: *8/9/17*

Time: *4:35*

Relinquished By:

Date: *8/9/17*

Relinquished By:

Date: *8/8/17*

Time: *5:30 PM*



ARDINAL LABORATORIES

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(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:																	
Project Manager: Cliff Brunson		Company: CCG																	
Address: P.O. Box 805		Attn: Kelly Hasstead																	
City: Hobbs		Address:																	
Phone #: 575-397-6388		City:																	
Fax #: 575-397-0397		State:																	
Project #: CCG		Zip:																	
Project Name: West Brushy 8 Line leak		Phone #:																	
Project Location: Eddy County, NM		Fax #:																	
Sampler Name: Jeff Ornelas		PRESERV		SAMPLING															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	CI	BTEX	TPHEXT										
H702090	SP17 @ 8'	G	1	GROUNDWATER	8/8/17	1:15 PM	✓												
541	SP17 @ 13'	G	1	WASTEWATER	8/8/17	1:22 PM	✓												
542	SP17 @ 18'	G	1	SOIL	8/8/17	1:33 PM	✓												
543	SP18 @ 1'	G	1	OIL	8/8/17	1:35 PM	✓												
544	SP18 @ 2'	G	1	SLUDGE	8/8/17	1:36 PM	✓												
545	SP18 @ 3'	G	1	OTHER :	8/8/17	1:37 PM	✓												
546	SP18 @ 5'	G	1	ACID/BASE:	8/8/17	1:45 PM	✓												
547	SP18 @ 7'	G	1	ICE / COOL	8/8/17	1:49 PM	✓												
548	SP18 @ 8'	G	1	OTHER :	8/8/17	1:50 PM	✓												
549	SP18 @ 13'	G	1		8/8/17	1:55 PM	✓												

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Relinquished By: *Jeff Ornelas*
Date: 8/8/17
Time: 3:30 PM

Received By: *Jeff Ornelas*
Date: 8/8/17
Time: 3:30 PM

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

Relinquished By: *Jeff Ornelas*
Date: 8/9/17
Time: 4:35 PM
Received By: *Jeff Ornelas*
Date: 8/9/17
Time: 4:35 PM
Sample Condition: ☒ Intact ☐ Cool ☐ Yes ☐ No
CHECKED BY: *Jeff Ornelas*

Delivered By: (Circle One) *UPS* *#75 - 5150*
Sampler - UPS - Bus - Other: *#75 - 5150*

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476
-A.9c CORRECTED + 250c



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(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2088

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.

P.O. #:

Project Manager: Cliff Brunson

Company: COE

Address: P.O. Box 805

Attn: Rocky Haskell

City: Hobbs

Address:

Phone #: 575-397-6388

City:

Project #:

State: Zip:

Project Name: West Brushy 8 Line leak

Phone #:

Project Location: Eddy County, NM

Fax #:

Sample Name: Jeff Ornelas

PRESERV

SAMPLING

MATRIX

PRESEV

SAMPLING

Lab I.D.

Sample I.D.

SOUTH @ SURFACE

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

8/8/17

3:15 PM

✓

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Relinquished By:

Received By:

Phone Result:

Yes No

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Received By:

Phone Result:

Yes No

Add'l Phone #:

Add'l Fax #:

Delivered By: (Circle One)

Sample Condition

CHECKED BY:

Sampler - UPS - Bus - Other:

Cool Intact

Yes No

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

-4.9c corrected +.725c

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 accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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, SM4500CI-B		mg/kg		Analyzed 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, SM4500CI-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	448	112	400	0.00	

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

Chloride, SM4500CI-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 @ 30' (H702256-04)

Chloride, SM4500CI-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	0.00	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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		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	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		Analyzed 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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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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, SM4500CI-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	448	112	400	0.00	

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

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	08/28/2017	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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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, SM4500CI-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	432	108	400	3.64		

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

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	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		Analyzed 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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Analytical Results For:

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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, SM4500CI-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 @ 35' (H702256-22)

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 @ 40' (H702256-23)

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	08/28/2017	ND	432	108	400	3.64		

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

Chloride, SM4500Cl-B		mg/kg		Analyzed 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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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, SM4500CI-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, SM4500CI-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: SB4 @ 30' (H702256-27)

Chloride, SM4500CI-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, SM4500CI-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, SM4500CI-B			mg/kg		Analyzed 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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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, SM4500CI-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, SM4500Cl-B		mg/kg		Analyzed 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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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, SM4500CI-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	448	112	400	3.64	

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

Chloride, SM4500CI-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, SM4500CI-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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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, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/28/2017	ND	448	112	400	3.64	

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

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: SB6 @ 45' (H702256-43)

Chloride, SM4500CI-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		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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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		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	448	112	400	3.64		

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

Chloride, SM4500CI-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	448	112	400	3.64	

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

Chloride, SM4500CI-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 @ 30' (H702256-48)

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: SB8 @ 20' (H702256-49)

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	08/28/2017	ND	448	112	400	3.64		

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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, SM4500CI-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		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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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		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	448	112	400	3.64		

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

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: SB8 @ 40' (H702256-57)

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: SB8 @ 45' (H702256-58)

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 @ 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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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		Analyzed 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, SM4500CI-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: SB9 @ 25' (H702256-62)

Chloride, SM4500CI-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	

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

Chloride, SM4500CI-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: SB9 @ 35' (H702256-64)

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		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/25/2017
Reported: 08/31/2017
Project Name: WEST BRUSHY 8 LINE LEAK
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/23/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

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

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	448	112	400	3.64		

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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 SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: West Brushy 8 line leak

Project Location: Eddy County, NM

Sampler Name: Jeff Ornelas

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: *WB*

Attn: *Betsy Haskell*

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :												
1	SB1 @ 20'		1									8/21/17	2:01 PM	✓							
2	SB1 @ 22'		1									8/21/17	2:11 PM	✓							
3	SB1 @ 25'		1									8/21/17	2:15 PM	✓							
4	SB1 @ 30'		1									8/21/17	2:20 PM	✓							
5	SB1 @ 35'		1									8/21/17	2:21 PM	✓							
6	SB1 @ 40'		1									8/21/17	2:23 PM	✓							
7	SB2 @ 20'		1									8/21/17	2:30 PM	✓							
8	SB2 @ 22'		1									8/21/17	2:33 PM	✓							
9	SB2 @ 25'		1									8/21/17	2:37 PM	✓							
10	SB2 @ 30'		1									8/21/17	2:38 PM	✓							

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Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Received By: *Jeff Ornelas*
Date: *8/21/17*
Time: *5:30pm*
Signature: *Jeff Ornelas*

Received By:

Received By:

Received By:

Received By:

Received By:

Received By:

Received By:

Received By:

Received By:

Received By:

Sample Condition

Cool Intact

Yes Yes

No No

Checked By:

Checked By:

Checked By:

Checked By:

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

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CARDINAL LABORATORIES
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(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: West Brushy 8 line leak

Project Location: Eddy County, NM

Sampler Name: Jeff Ornelas

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: CDE

Attn: Beckwithskell

Address:

City:

State: Zip:

Phone #:

Fax #:

Lab I.D. Sample I.D.

11 SB2 @ 35'

12 SB2 @ 40'

13 SB2 @ 45'

14 SB2 @ 50'

15 SB2 @ 55'

16 SB2 @ 60'

17 SB2 @ 65'

18 SB3 @ 20'

19 SB3 @ 22'

20 SB3 @ 25'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE TIME

8/21/17 2:40 PM

8/21/17 2:45 PM

8/21/17 3:00 PM

8/21/17 3:10 PM

8/21/17 3:12 PM

8/21/17 3:19 PM

8/21/17 3:38 PM

8/22/17 9:30 AM

8/22/17 9:33 AM

8/22/17 9:38 AM

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Relinquished By: *Jeff Ornelas* Date: *8/23/17* Time: *5:30pm* Received By: *Jeff Ornelas*

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

Relinquished By: *Jeff Ornelas*

Date: *8/23/17* Time: *5:30pm*

Received By: *Jeff Ornelas*

Sample Condition

Cool ☐ Intact ☐

Yes ☐ No ☐

CHECKED BY: *Jeff Ornelas*

(Initials)

70-715

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Delivered By: (Circle One) *7:38*

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Sampler - UPS - Bus - Other: *70-715*

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #
Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:
REMARKS:			



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #
Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:
REMARKS:			

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(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

5081

Company Name: BBC International, Inc.	BILL TO	ANALYSIS REQUEST
--	----------------	-------------------------

Project Manager: Cliff Brunson	P.O. #:	Company: CDE
Address: P.O. Box 805	City: Hobbs	Attn: Becky Haskell
State: NM	Zip: 88241	Address:
Phone #: 575-397-6388	Fax #: 575-397-0397	City:
Project #:	Project Owner: CDE	State:
Project Name: West Brushy 8 line leak	State:	Zip:
Project Location: Eddy County, NM	Phone #:	Fax #:
Sampler Name: Jeff Ornelas	FOR LAB USE ONLY	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :											
41	SB6 @ 35'		1							8/22/17	2:16 PM	✓								
42	SB6 @ 40'		1							8/22/17	2:22 PM	✓								
43	SB6 @ 45'		1							8/22/17	2:30 PM	✓								
44	SB6 @ 50'		1							8/22/17	2:40 PM	✓								
45	SB6 @ 55'		1							8/22/17	2:56 PM	✓								
46	SB7 @ 20'		1							8/22/17	3:01 PM	✓								
47	SB7 @ 25'		1							8/22/17	3:08 PM	✓								
48	SB7 @ 30'		1							8/22/17	3:15 PM	✓								
49	SB8 @ 20'		1							8/22/17	3:20 PM	✓								
50	SB8 @ 25'		1							8/22/17	3:25 PM	✓								

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Relinquished By: V. H. Ornelas	Date: 8/23/17	Time: 5:30pm	Received By: Jeff Ornelas	Date: 8/23/17	Time: 1:22
Delivered By: (Circle One) UPS - Bus - Other: <i>Consolidated 8.05</i>	Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>T.D. #75</i>	REMARKS:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Sampler - UPS - Bus - Other:	Consolidated 8.05	Consolidated 8.05	Consolidated 8.05	Consolidated 8.05	Consolidated 8.05

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

687

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: West Brushy 8 line leak

Project Location: Eddy County, NM

Sampler Name: Jeff Ornelas

FOR LAB USE ONLY

BILL TO
P.O. #:
Company: COG
Attn: Becky Haskell
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME												
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :														
HT02-256	SB8 @ 30'	G	1							8/22/17	3:20 PM	✓											
	SB7 @ 35'	G	1							8/23/17	8:45 AM	✓											
	SP7 @ 40'	G	1							8/23/17	8:51 AM	✓											
	SB7 @ 45'	G	1							8/23/17	8:58 AM	✓											
	SB7 @ 50'	G	1							8/23/17	9:11 AM	✓											
	SB8 @ 35'	G	1							8/23/17	9:25 AM	✓											
	SB8 @ 40'	G	1							8/23/17	9:33 AM	✓											
	SB8 @ 45'	G	1							8/23/17	9:41 AM	✓											
	SB8 @ 50'	G	1							8/23/17	10:15 AM	✓											
	SB9 @ 20'	G	1							8/23/17	10:30 AM	✓											

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Relinquished By:

Received By:

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

Relinquished By:

Received By:

Delivered By: (Circle One)

Sample Condition

Sampler - UPS - Bus - Other:

Cool Intact

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

7687

Company Name: BBC International, Inc.		P.O. #:		BILL TO												ANALYSIS REQUEST																									
Project Manager: Cliff Brunson		Company: JCB																																							
Address: P.O. Box 805		Attn: Betty Haskell																																							
City: Hobbs		Address:																																							
State: NM Zip: 88241		City:																																							
Phone #: 575-397-6388		State:																																							
Fax #: 575-397-0397		Zip:																																							
Project #:																																									
Project Name: West Brushy 8 line leak																																									
Project Location: Eddy County, NM																																									
Sampler Name: Jeff Ornelas																																									
FOR LAB USE ONLY																																									
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													
H102256		SB9 @ 23'		G		1						✓														8/23/17		10:38 AM		✓											
41		SB9 @ 25'		G		1						✓														8/23/17		10:49 AM		✓											
42		SB9 @ 30'		G		1						✓														8/23/17		11:11 AM		✓											
43		SB9 @ 35'		G		1						✓														8/23/17		11:19 AM		✓											
45		SB9 @ 40'		G		1						✓														8/23/17		11:33 AM		✓											

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company:	COG Operating LLC	Contact:	Robert McNeill
Address:	600 West Illinois Avenue, Midland TX 79701	Telephone No.	432-683-7443
Facility Name:	West Brushy 8 Federal SWD #001	Facility Type:	SWD

Surface Owner:	Federal	Mineral Owner:		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
A	08	26S	29E	660	North	330	East	Eddy

Latitude 32.084544 Longitude -103.980062

NATURE OF RELEASE

Type of Release:	Produced Water	Volume of Release:	10,235 bbls	Volume Recovered:	0 bbls
Source of Release:	Flowline	Date and Hour of Occurrence:	July 27, 2017 10:45 am	Date and Hour of Discovery:	July 27, 2017 10:45 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Ms. Weaver - NMOCD / Shelly Tucker - BLM		
By Whom?	Rebecca Haskell	Date and Hour:	July 27, 2017 2:33 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The release was due to a ruptured flowline. The rupture was caused by power failures which caused the West Brushy 8 Federal SWD #001 to shut in due to recent storms.

Describe Area Affected and Cleanup Action Taken.*

The release was within a pasture. Concho responded immediately to the release. A contractor placed an emergency one call and Concho requested Arch Clearance from the BLM. 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 protect against forecasted precipitation. Subsequent to initial response activities a regular one call was placed and once cleared delineation activities were initiated. Delineation activities are currently ongoing. COG will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Rebecca Haskell</i>	OIL CONSERVATION DIVISION		
Printed Name: Rebecca Haskell	Approved by Environmental Specialist:		
Title: Senior HSE Coordinator	Approval Date:	Expiration Date:	
E-mail Address: rhaskell@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: August 8, 2017 Phone: 432-683-7443			

* Attach Additional Sheets If Necessary