



DELINEATION WORKPLAN

ENDEAVOR ENERGY RESOURCES – STATE NC #1 (Leak Date: 5/16/17)

**RP # 1RP-4710
API NO. 30-025-28695**

This delineation workplan and remediation proposal addresses the release associated with RP # 1RP-4710.

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:

Endeavor Energy Resources respectfully requests a deferment of the remediation at this release site until the life of this well site is exhausted. Upon abandonment of this site, Endeavor will proceed with the remediation and proper abandonment requirements according to the NMOCD and State Land Office guidelines. Endeavor is requesting this deferment due to remediation activities will jepordize the daily activities of operations and pose safety and infrastructure concerns.

Endeavor appreciates the NMOCD and the State Land Office recognizing the concerns and looks forward to deferment.

APPROVED

By Olivia Yu at 11:23 am, Jan 04, 2018

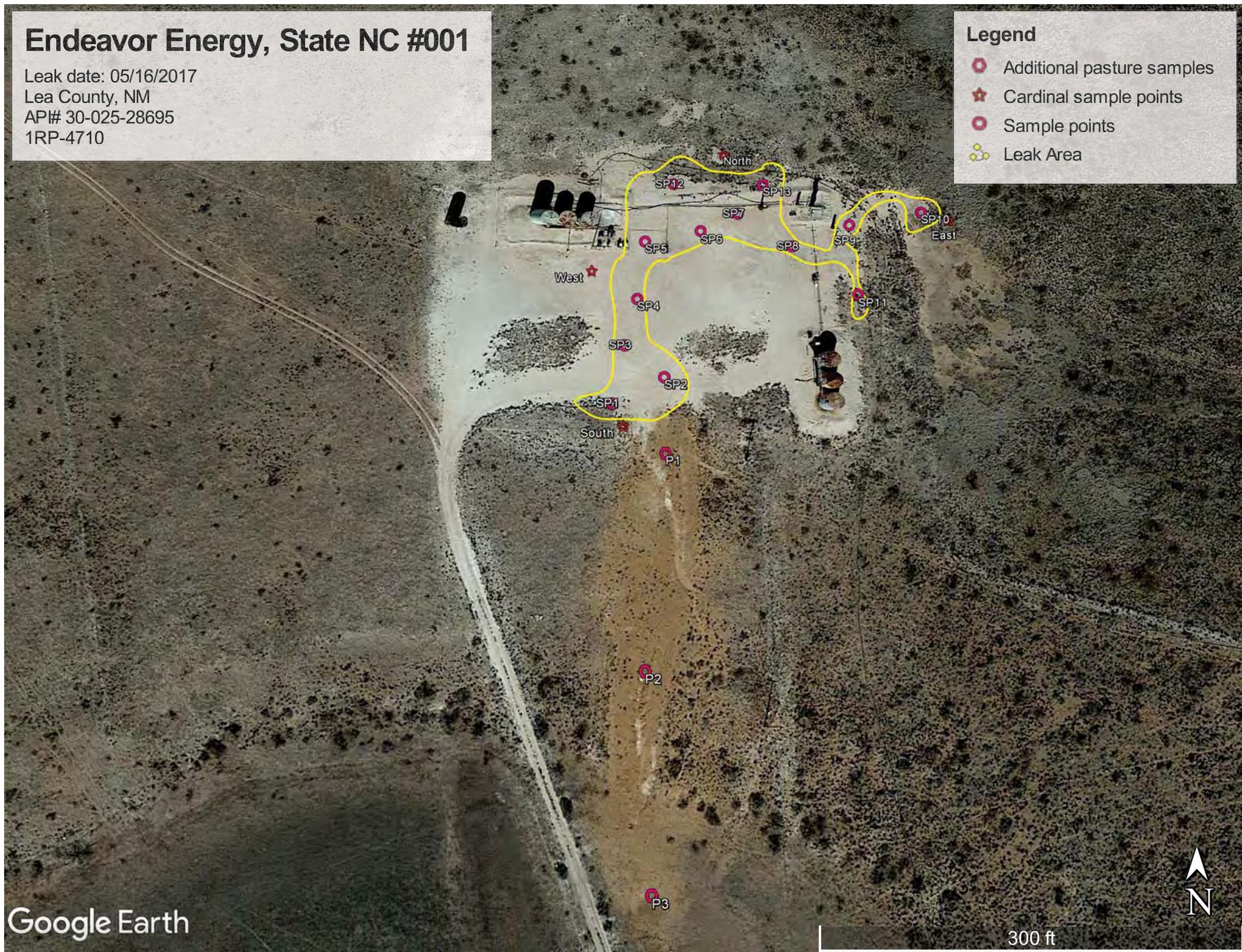
NMOCD will consider delineation complete for 1RP-4710. Excavate 4 ft. and properly key in a 20 mil liner for the entire release area. Confirmation sidewall samples no greater than 50 ft. apart.

Endeavor Energy, State NC #001

Leak date: 05/16/2017
Lea County, NM
API# 30-025-28695
1RP-4710

Legend

- Additional pasture samples
- Cardinal sample points
- Sample points
- Leak Area



Endeavor Energy, State NC #1

Sample points, hand auger

SP1, N 32.96204 W-103.74802

SP2, N 32.96211 W-103.74788

SP3, N 32.96219 W-103.74798

SP4, N 32.96231 W-103.74795

SP5, N 32.96247 W-103.74793

SP6, N 32.96250 W-103.74777

SP7, N 32.96255 W-103.74766

SP8, N 32.96246 W-103.74751

SP9, N 32.96252 W-103.74735

SP10, N 32.96255 W-103.74714

SP11, N 32.96233 W-103.74733

SP12, N 32.96234 W-103.74784

SP13, N 32.96263 W-103.74759

NORTH, N 32.96272 W-103.74770

SOUTH, N 32.96199 W-103.74799

EAST, N 32.96253 W-103.74706

WEST, N 32.96239 W-103.74808

P1, N 32.96192 W-103.74788

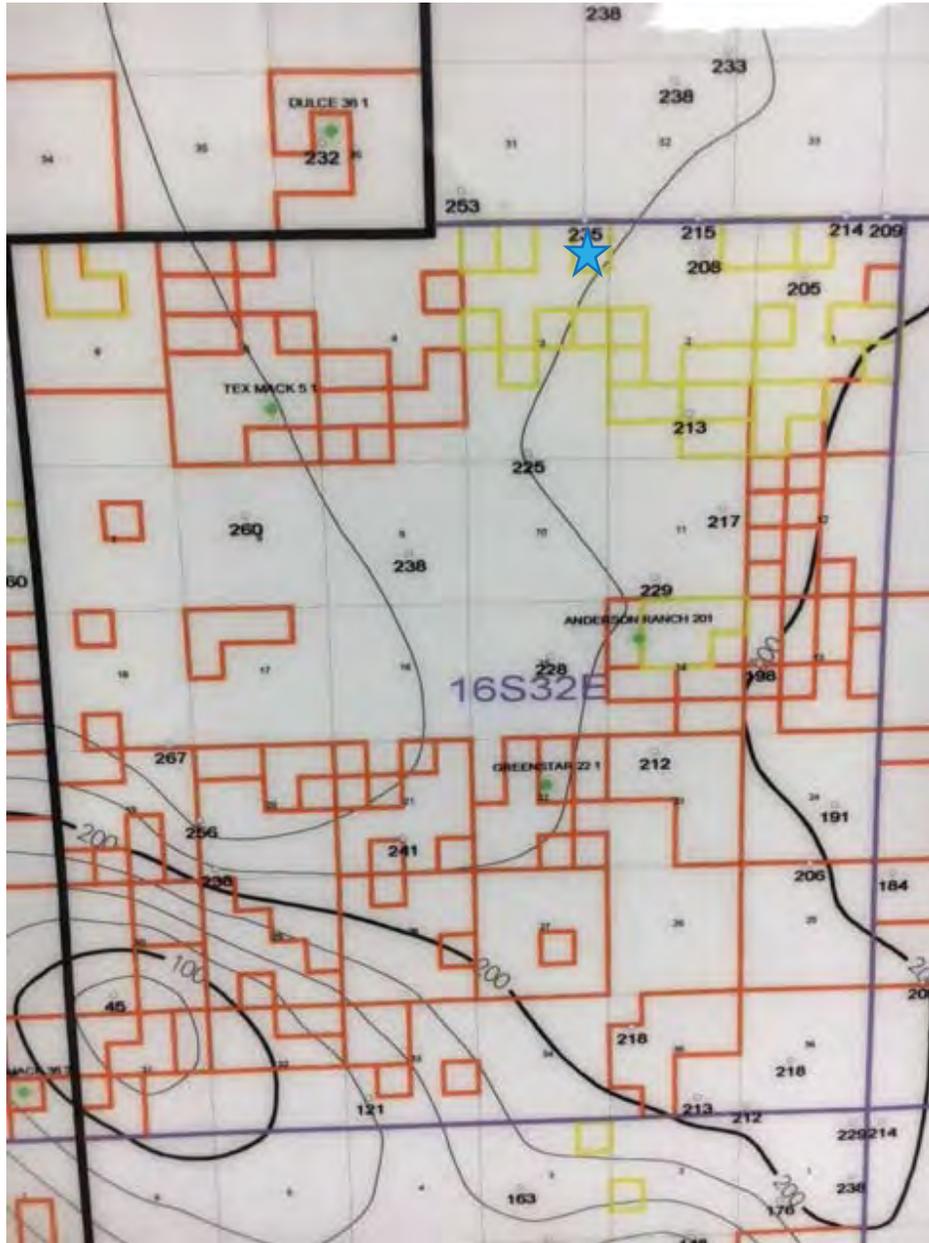
P2, N 32.96143 W-103.74793

P3, N 32.96098 W-103.74792

Endeavor Energy, State NC #001

U/L A, Section 3, T16S, R32E

Groundwater: 225'-250'





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
L_02954		L	LE	2	4	03	16S	32E	617043	3646310*	<input type="checkbox"/>	804	120	65	55
L_04918 POD16		L	LE	3	3	3	32	15S	32E	616978	3648237	<input type="checkbox"/>	1125	330	106
L_04918 POD16	R	L	LE	3	3	3	32	15S	32E	616978	3648237	<input type="checkbox"/>	1125	330	106
L_04918 POD31		L	LE	3	3	3	32	15S	32E	616984	3648240	<input type="checkbox"/>	1127	340	96
L_03631		L	LE	1	2	02	16S	32E	618240	3647126*	<input type="checkbox"/>	1206	315	250	65
L_04918 POD17		L	LE	3	4	3	32	15S	32E	617451	3648328*	<input type="checkbox"/>	1283	325	120
L_03853 POD2		L	ED	3	4	4	31	15S	32E	616570	3648340	<input type="checkbox"/>	1311	342	94
L_03853 X	R	L	LE	3	4	4	31	15S	32E	616571	3648341	<input type="checkbox"/>	1311	305	45
L_02467		L	LE	1	4	02	16S	32E	618250	3646322*	<input type="checkbox"/>	1451	328	275	53
L_04918 POD18		L	LE	3	3	4	32	15S	32E	617853	3648332*	<input type="checkbox"/>	1467	310	63
L_04914 POD2		L	LE	3	4	31	15S	32E	616346	3648415*	<input type="checkbox"/>	1471	336	227	109
L_10204		L	LE	4	2	2	04	16S	32E	615524	3646993*	<input type="checkbox"/>	1514	319	

Average Depth to Water: **224 feet**
 Minimum Depth: **65 feet**
 Maximum Depth: **275 feet**

Record Count: 12

UTMNAD83 Radius Search (in meters):

Easting (X): 617034

Northing (Y): 3647114

Radius: 1700

*UTM location was derived from PLSS - see Help

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.

6/1/17 9:54 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Public Land Survey System (PLSS)

Q64: Q16: Q4: Sec: Tws: Rng:

State Plane Coordinate System - NAD27

X: ft Y: ft Zone:

State Plane Coordinate System - NAD83

X: ft Y: ft Zone:

Degrees/Minutes/Seconds

Longitude (X): Degrees: ° Minutes: ' Seconds: ''
Latitude (Y): Degrees: ° Minutes: ' Seconds: ''

UTM - NAD27

Easting (X): mtrs Northing (Y): mtrs Zone:

SUBMIT

All Conversion Results are displayed as **NAD 1983 UTM Zone 13**

Easting (X): mtrs Northing (Y): mtrs

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

Laboratory Analytical Results Summary
State NC #1

		Sample	SP9 @ 1'	SP9 @ 3'	SP9 @ 4'	SP9 @ 6'	SP9 @ 8'	SP9 @ 10'	SP9 @ 12'	SP9 @ 13'	SP9 @ 18'
Analyte	Method	Date	7/21/17	7/21/17	11/17/17	11/20/17	11/20/17	11/20/17	11/20/17	11/20/17	11/20/17
			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	SM4500Cl-B		800	1040	432	1180	1170	1090	496	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

		Sample	SP10 @ 1'	SP10 @ 3'	SP10 @ 4'	SP10 @ 6'	SP10 @ 8'	SP10 @ 9'	SP10 @ 10'	SP10 @ 15'
Analyte	Method	Date	7/24/17	7/24/17	11/17/17	11/17/17	11/17/17	11/17/17	11/17/17	11/17/17
			mg/Kg	mg/Kg						
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	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
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		2080	2200	1070	1630	720	640	240	224
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a

		Sample	SP11 @ 1'	SP11 @ 3'	SP11 @ 4'	SP11 @ 5'	SP11 @ 6'	SP11 @ 7'	SP11 @ 12'
Analyte	Method	Date	7/24/17	7/24/17	11/17/17	11/17/17	11/17/17	11/17/17	11/17/17
			mg/Kg						
Benzene	BTEX 8021B		<0.050	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
Ethylbenzene	BTEX 8021B		<0.050	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
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		7840	5920	528	464	256	160	160
GRO	TPH 8015M		<10.0	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
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a

		Sample	SP12 @ 1'	SP12 @ 3'	SP12 @ 4'	SP12 @ 9'
Analyte	Method	Date	7/24/17	7/24/17	11/17/17	11/17/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		624	640	160	240
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a

Laboratory Analytical Results Summary
State NC #1

		Sample	SP13 @ 1'	SP13 @ 3'	SP13 @ 4'	SP13 @ 9'
Analyte	Method	Date	7/24/17	7/24/17	11/17/17	11/17/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		416	704	176	144
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		19.4	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a

		Sample	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	7/24/17	7/24/17	7/24/17	7/24/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		<16.0	<16.0	<16.0	<16.0

		Sample	P1 @ SURFACE	P1 @ 1'	P1 @ 5'
Analyte	Method	Date	11/15/17	11/15/17	11/15/17
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		64	32	48

		Sample	P2 @ SURFACE	P2 @ 1'	P2 @ 5'
Analyte	Method	Date	11/15/17	11/15/17	11/15/17
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		48	80	48

		Sample	P3 @ SURFACE	P3 @ 1'	P3 @ 5'
Analyte	Method	Date	11/15/17	11/15/17	11/15/17
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		144	144	160

August 04, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE NC #1

Enclosed are the results of analyses for samples received by the laboratory on 08/02/17 12:00.

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:	08/02/2017	Sampling Date:	07/19/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP1 @1' (H702018-01)

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	08/02/2017	ND	2.37	118	2.00	1.09	
Toluene*	<0.050	0.050	08/02/2017	ND	2.22	111	2.00	2.33	
Ethylbenzene*	<0.050	0.050	08/02/2017	ND	2.29	114	2.00	0.593	
Total Xylenes*	<0.150	0.150	08/02/2017	ND	6.74	112	6.00	0.0961	
Total BTEX	<0.300	0.300	08/02/2017	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	5120	16.0	08/02/2017	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	08/02/2017	ND	189	94.4	200	0.805	
DRO >C10-C28	<10.0	10.0	08/02/2017	ND	196	97.8	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	08/02/2017	ND					

Surrogate: 1-Chlorooctane 91.5 % 28.3-164
Surrogate: 1-Chlorooctadecane 90.0 % 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:	08/02/2017	Sampling Date:	07/19/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP1 @ 3' (H702018-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	08/02/2017	ND	432	108	400	0.00	

Sample ID: SP1 @ 5' (H702018-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	08/02/2017	ND	432	108	400	0.00	

Sample ID: SP1 @ 7' (H702018-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	08/02/2017	ND	432	108	400	0.00	

Sample ID: SP1 @ 8' (H702018-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	08/02/2017	ND	432	108	400	0.00	

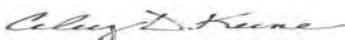
Sample ID: SP1 @ 9' (H702018-06)

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	08/02/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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Received:	08/02/2017	Sampling Date:	07/19/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP2 @ 1' (H702018-07)

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	08/02/2017	ND	2.37	118	2.00	1.09		
Toluene*	<0.050	0.050	08/02/2017	ND	2.22	111	2.00	2.33		
Ethylbenzene*	<0.050	0.050	08/02/2017	ND	2.29	114	2.00	0.593		
Total Xylenes*	<0.150	0.150	08/02/2017	ND	6.74	112	6.00	0.0961		
Total BTEX	<0.300	0.300	08/02/2017	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	6900	16.0	08/02/2017	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	08/02/2017	ND	189	94.4	200	0.805		
DRO >C10-C28	<10.0	10.0	08/02/2017	ND	196	97.8	200	1.83		
EXT DRO >C28-C36	<10.0	10.0	08/02/2017	ND						

Surrogate: 1-Chlorooctane 92.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.1 % 34.7-157

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Received:	08/02/2017	Sampling Date:	07/19/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP2 @ 3' (H702018-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6480	16.0	08/02/2017	ND	432	108	400	0.00	

Sample ID: SP2 @ 5' (H702018-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	08/02/2017	ND	432	108	400	0.00	

Sample ID: SP2 @ 7' (H702018-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	08/02/2017	ND	432	108	400	0.00	

Sample ID: SP2 @ 8' (H702018-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	08/02/2017	ND	432	108	400	0.00	

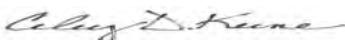
Sample ID: SP2 @ 9' (H702018-12)

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	08/02/2017	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:	08/02/2017	Sampling Date:	07/19/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP3 @ 1' (H702018-13)

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	08/02/2017	ND	2.37	118	2.00	1.09		
Toluene*	<0.050	0.050	08/02/2017	ND	2.22	111	2.00	2.33		
Ethylbenzene*	<0.050	0.050	08/02/2017	ND	2.29	114	2.00	0.593		
Total Xylenes*	<0.150	0.150	08/02/2017	ND	6.74	112	6.00	0.0961		
Total BTEX	<0.300	0.300	08/02/2017	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	6700	16.0	08/02/2017	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	08/02/2017	ND	189	94.4	200	0.805		
DRO >C10-C28	<10.0	10.0	08/02/2017	ND	196	97.8	200	1.83		
EXT DRO >C28-C36	<10.0	10.0	08/02/2017	ND						

Surrogate: 1-Chlorooctane 87.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.2 % 34.7-157

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Received:	08/02/2017	Sampling Date:	07/19/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP3 @ 3' (H702018-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	08/02/2017	ND	432	108	400	0.00	

Sample ID: SP3 @ 4' (H702018-15)

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	08/02/2017	ND	432	108	400	0.00	

Sample ID: SP3 @ 9' (H702018-16)

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	08/02/2017	ND	432	108	400	0.00	

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Received:	08/02/2017	Sampling Date:	07/20/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP4 @ 1' (H702018-17)

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	08/02/2017	ND	2.37	118	2.00	1.09		
Toluene*	<0.050	0.050	08/02/2017	ND	2.22	111	2.00	2.33		
Ethylbenzene*	<0.050	0.050	08/02/2017	ND	2.29	114	2.00	0.593		
Total Xylenes*	<0.150	0.150	08/02/2017	ND	6.74	112	6.00	0.0961		
Total BTEX	<0.300	0.300	08/02/2017	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	5300	16.0	08/02/2017	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	08/02/2017	ND	189	94.4	200	0.805		
DRO >C10-C28	<10.0	10.0	08/02/2017	ND	196	97.8	200	1.83		
EXT DRO >C28-C36	<10.0	10.0	08/02/2017	ND						

Surrogate: 1-Chlorooctane 93.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 93.4 % 34.7-157

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Received:	08/02/2017	Sampling Date:	07/20/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP4 @ 3' (H702018-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	08/02/2017	ND	432	108	400	0.00	

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Received:	08/02/2017	Sampling Date:	07/20/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP5 @ 1' (H702018-19)

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	08/02/2017	ND	2.37	118	2.00	1.09		
Toluene*	<0.050	0.050	08/02/2017	ND	2.22	111	2.00	2.33		
Ethylbenzene*	<0.050	0.050	08/02/2017	ND	2.29	114	2.00	0.593		
Total Xylenes*	<0.150	0.150	08/02/2017	ND	6.74	112	6.00	0.0961		
Total BTEX	<0.300	0.300	08/02/2017	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	4960	16.0	08/02/2017	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	08/02/2017	ND	189	94.4	200	0.805		
DRO >C10-C28	<10.0	10.0	08/02/2017	ND	196	97.8	200	1.83		
EXT DRO >C28-C36	<10.0	10.0	08/02/2017	ND						

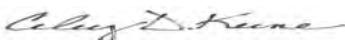
Surrogate: 1-Chlorooctane 96.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.5 % 34.7-157

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Received:	08/02/2017	Sampling Date:	07/20/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP5 @ 3' (H702018-20)

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	08/02/2017	ND	432	108	400	0.00	

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 Fax To: (575) 397-0397

Received:	08/02/2017	Sampling Date:	07/20/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP6 @ 1' (H702018-21)

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	08/02/2017	ND	2.37	118	2.00	1.09		
Toluene*	<0.050	0.050	08/02/2017	ND	2.22	111	2.00	2.33		
Ethylbenzene*	<0.050	0.050	08/02/2017	ND	2.29	114	2.00	0.593		
Total Xylenes*	<0.150	0.150	08/02/2017	ND	6.74	112	6.00	0.0961		
Total BTEX	<0.300	0.300	08/02/2017	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	4240	16.0	08/02/2017	ND	432	108	400	0.00		

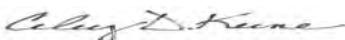
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/02/2017	ND	189	94.4	200	0.805		
DRO >C10-C28	<10.0	10.0	08/02/2017	ND	196	97.8	200	1.83		
EXT DRO >C28-C36	<10.0	10.0	08/02/2017	ND						

Surrogate: 1-Chlorooctane 88.2 % 28.3-164
Surrogate: 1-Chlorooctadecane 87.3 % 34.7-157

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 Fax To: (575) 397-0397

Received:	08/02/2017	Sampling Date:	07/20/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP6 @ 3' (H702018-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	08/02/2017	ND	432	108	400	3.64	QM-07

Sample ID: SP6 @ 4' (H702018-23)

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	08/02/2017	ND	432	108	400	3.64	

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Received:	08/02/2017	Sampling Date:	07/21/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP7 @ 1' (H702018-24)

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	08/03/2017	ND	1.84	91.8	2.00	3.89		
Toluene*	<0.050	0.050	08/03/2017	ND	1.73	86.6	2.00	1.58		
Ethylbenzene*	<0.050	0.050	08/03/2017	ND	1.77	88.5	2.00	5.66		
Total Xylenes*	<0.150	0.150	08/03/2017	ND	5.32	88.7	6.00	3.18		
Total BTEX	<0.300	0.300	08/03/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	4000	16.0	08/02/2017	ND	432	108	400	3.64		

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	08/02/2017	ND	189	94.4	200	0.805		
DRO >C10-C28	<10.0	10.0	08/02/2017	ND	196	97.8	200	1.83		
EXT DRO >C28-C36	<10.0	10.0	08/02/2017	ND						

Surrogate: 1-Chlorooctane 91.0 % 28.3-164
Surrogate: 1-Chlorooctadecane 92.1 % 34.7-157

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Received:	08/02/2017	Sampling Date:	07/21/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP7 @ 3' (H702018-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	08/02/2017	ND	432	108	400	3.64	

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Received:	08/02/2017	Sampling Date:	07/21/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP8 @ 1' (H702018-26)

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	08/03/2017	ND	1.84	91.8	2.00	3.89		
Toluene*	<0.050	0.050	08/03/2017	ND	1.73	86.6	2.00	1.58		
Ethylbenzene*	<0.050	0.050	08/03/2017	ND	1.77	88.5	2.00	5.66		
Total Xylenes*	<0.150	0.150	08/03/2017	ND	5.32	88.7	6.00	3.18		
Total BTEX	<0.300	0.300	08/03/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	4160	16.0	08/02/2017	ND	432	108	400	3.64		

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	08/02/2017	ND	189	94.4	200	0.805		
DRO >C10-C28	<10.0	10.0	08/02/2017	ND	196	97.8	200	1.83		
EXT DRO >C28-C36	<10.0	10.0	08/02/2017	ND						

Surrogate: 1-Chlorooctane 98.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 99.3 % 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:	08/02/2017	Sampling Date:	07/21/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP8 @ 3' (H702018-27)

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	08/02/2017	ND	432	108	400	3.64	

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Received:	08/02/2017	Sampling Date:	07/21/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP9 @ 1' (H702018-28)

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	08/03/2017	ND	1.84	91.8	2.00	3.89		
Toluene*	<0.050	0.050	08/03/2017	ND	1.73	86.6	2.00	1.58		
Ethylbenzene*	<0.050	0.050	08/03/2017	ND	1.77	88.5	2.00	5.66		
Total Xylenes*	<0.150	0.150	08/03/2017	ND	5.32	88.7	6.00	3.18		
Total BTEX	<0.300	0.300	08/03/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	800	16.0	08/02/2017	ND	432	108	400	3.64		

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	08/02/2017	ND	189	94.4	200	0.805		
DRO >C10-C28	<10.0	10.0	08/02/2017	ND	196	97.8	200	1.83		
EXT DRO >C28-C36	<10.0	10.0	08/02/2017	ND						

Surrogate: 1-Chlorooctane 86.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.4 % 34.7-157

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Received:	08/02/2017	Sampling Date:	07/21/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP9 @ 3' (H702018-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	08/02/2017	ND	432	108	400	3.64	

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Received:	08/02/2017	Sampling Date:	07/24/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP10 @ 1' (H702018-30)

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	08/03/2017	ND	1.84	91.8	2.00	3.89	
Toluene*	<0.050	0.050	08/03/2017	ND	1.73	86.6	2.00	1.58	
Ethylbenzene*	<0.050	0.050	08/03/2017	ND	1.77	88.5	2.00	5.66	
Total Xylenes*	<0.150	0.150	08/03/2017	ND	5.32	88.7	6.00	3.18	
Total BTEX	<0.300	0.300	08/03/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	2080	16.0	08/02/2017	ND	432	108	400	3.64	

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	08/02/2017	ND	189	94.4	200	0.805	
DRO >C10-C28	<10.0	10.0	08/02/2017	ND	196	97.8	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	08/02/2017	ND					

Surrogate: 1-Chlorooctane 89.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.4 % 34.7-157

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Received:	08/02/2017	Sampling Date:	07/24/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP11 @ 1' (H702018-31)

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	08/03/2017	ND	1.84	91.8	2.00	3.89	
Toluene*	<0.050	0.050	08/03/2017	ND	1.73	86.6	2.00	1.58	
Ethylbenzene*	<0.050	0.050	08/03/2017	ND	1.77	88.5	2.00	5.66	
Total Xylenes*	<0.150	0.150	08/03/2017	ND	5.32	88.7	6.00	3.18	
Total BTEX	<0.300	0.300	08/03/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	7840	16.0	08/02/2017	ND	432	108	400	3.64	

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	08/02/2017	ND	189	94.4	200	0.805	
DRO >C10-C28	<10.0	10.0	08/02/2017	ND	196	97.8	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	08/02/2017	ND					

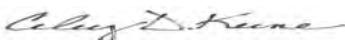
Surrogate: 1-Chlorooctane 97.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 98.5 % 34.7-157

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Received:	08/02/2017	Sampling Date:	07/24/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP11 @ 3' (H702018-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	08/02/2017	ND	432	108	400	3.64	

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Received:	08/02/2017	Sampling Date:	07/24/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP12 @ 1' (H702018-33)

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	08/03/2017	ND	1.84	91.8	2.00	3.89	
Toluene*	<0.050	0.050	08/03/2017	ND	1.73	86.6	2.00	1.58	
Ethylbenzene*	<0.050	0.050	08/03/2017	ND	1.77	88.5	2.00	5.66	
Total Xylenes*	<0.150	0.150	08/03/2017	ND	5.32	88.7	6.00	3.18	
Total BTEX	<0.300	0.300	08/03/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	624	16.0	08/02/2017	ND	432	108	400	3.64	

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	08/02/2017	ND	189	94.4	200	0.805	
DRO >C10-C28	<10.0	10.0	08/02/2017	ND	196	97.8	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	08/02/2017	ND					

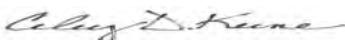
Surrogate: 1-Chlorooctane 83.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.8 % 34.7-157

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 Fax To: (575) 397-0397

Received:	08/02/2017	Sampling Date:	07/24/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

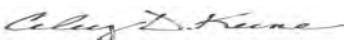
Sample ID: SP12 @ 3' (H702018-34)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	08/02/2017	ND	432	108	400	3.64	

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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2017	Sampling Date:	07/24/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP13 @ 1' (H702018-35)

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	08/03/2017	ND	1.84	91.8	2.00	3.89	
Toluene*	<0.050	0.050	08/03/2017	ND	1.73	86.6	2.00	1.58	
Ethylbenzene*	<0.050	0.050	08/03/2017	ND	1.77	88.5	2.00	5.66	
Total Xylenes*	<0.150	0.150	08/03/2017	ND	5.32	88.7	6.00	3.18	
Total BTEX	<0.300	0.300	08/03/2017	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	416	16.0	08/02/2017	ND	432	108	400	3.64	

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	08/02/2017	ND	189	94.4	200	0.805	
DRO >C10-C28	19.4	10.0	08/02/2017	ND	196	97.8	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	08/02/2017	ND					

Surrogate: 1-Chlorooctane 84.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 85.8 % 34.7-157

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Received:	08/02/2017	Sampling Date:	07/24/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP13 @ 3' (H702018-36)

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	08/02/2017	ND	432	108	400	3.64	

Sample ID: NORTH (H702018-37)

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	08/02/2017	ND	432	108	400	3.64	

Sample ID: EAST (H702018-38)

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	08/02/2017	ND	432	108	400	3.64	

Sample ID: WEST (H702018-39)

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	08/02/2017	ND	432	108	400	3.64	

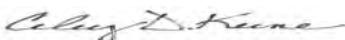
Sample ID: SOUTH (H702018-40)

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	08/02/2017	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:	08/02/2017	Sampling Date:	07/24/2017
Reported:	08/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: SP10 @3' (H702018-41)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	08/02/2017	ND	432	108	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 5

Page 29 of 33

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson		P.O. #:													
Address: P.O. Box 805		Company:													
City: Hobbs State: NM Zip: 88241		Attn:													
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:													
Project #: Project Owner: <i>EMERALD</i>		City:													
Project Name: <i>STATE MCH 1</i>		State: Zip:													
Project Location:		Phone #:													
Sampler Name: <i>RIGER HEDVAUDEZ</i>		Fax #:													

TPH 1015 M
BTEX
CL-

Lab I.D.	Sample I.D.	FOR LAB USE ONLY	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		DATE	TIME		
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER					
H102018 1 2 3 4 5 6 7 8 9 10	SP1 @			1			✓				✓			7-19-17	919	✓	✓	✓
				1			✓				✓			7-19-17	1015			
					1			✓			✓			7-19-17	1111			✓
					1			✓			✓			7-19-17	1149			✓
					1			✓			✓			7-19-17	1212			✓
					1			✓			✓			7-19-17	1250			✓
		SP2 @			1			✓			✓			7-19-17	115	✓	✓	✓
					1			✓			✓			7-19-17	133			✓
					1			✓			✓			7-19-17	157			✓
					1			✓			✓			7-19-17	222			✓

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Relinquished By: <i>Roger Hernandez</i>	Date: <i>8-02-17</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Date: <i>8-2-17</i>	Received By: <i>Charla Cabrera</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) <i>corrected 3.05c</i>	Time: <i>12:00</i>	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS:	
Sampler - UPS - Bus - Other: <i>2.8c</i>	Time: <i>2.8c</i>	Checked By: <i>[Signature]</i>		

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson		P.O. #:		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH 1015 M</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Cl-</div> </div>											
Address: P.O. Box 805		Company:													
City: Hobbs State: NM Zip: 88241		Attn:													
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:													
Project #: Project Owner: ENDRALOR		City:													
Project Name: ST NC # 1		State: Zip:													
Project Location:		Phone #:													
Sampler Name: ROGER Hernandez		Fax #:													

FOR LAB USE ONLY		GRAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		DATE	TIME	TPH	BTEX	Cl-
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :						
H102018																		
21	SP6@1-✓	G	1			✓				✓			7-20-17	725	✓	✓	✓	
22	@3-✓	G	1			✓				✓			7-20-17	715			✓	
23	@4-✓	G	1			✓				✓			7-21-17	901			✓	
24	SP7@1-✓	G	1			✓				✓			7-21-17	922	✓	✓	✓	
25	@3-✓	G	1			✓				✓			7-21-17	1015			✓	
26	SP8@1-✓	G	1			✓				✓			7-21-17	1040	✓	✓	✓	
27	@3-✓	G	1			✓				✓			7-21-17	1111			✓	
28	SP9@1-✓	G	1			✓				✓			7-21-17	124	✓	✓	✓	
29	@3-✓	G	1			✓				✓			7-21-17	145			✓	
30	SP10@1-✓	G	1			✓				✓			7-21-17	911	✓	✓	✓	

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Relinquished By: Roger Hernandez	Date: 8/2/17	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: [Signature]	Date: 8/2/17	Received By: Angela Cabrera	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: connected 3 se 2.8c	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) [Signature]	REMARKS:	

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

December 04, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE NC #1

Enclosed are the results of analyses for samples received by the laboratory on 11/21/17 16:20.

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:	11/21/2017	Sampling Date:	11/15/2017
Reported:	12/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ENDEAVOR- MALJAMAR NM		

Sample ID: SP4 @ 4' (H703242-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	11/27/2017	ND	432	108	400	3.64	

Sample ID: SP4 @ 6' (H703242-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	11/27/2017	ND	432	108	400	3.64	

Sample ID: SP4 @ 7' (H703242-03)

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	11/27/2017	ND	432	108	400	3.64	

Sample ID: SP4 @ 12' (H703242-04)

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	11/27/2017	ND	432	108	400	3.64	

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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:	11/21/2017	Sampling Date:	11/15/2017
Reported:	12/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ENDEAVOR- MALJAMAR NM		

Sample ID: SP5 @ 4' (H703242-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	11/27/2017	ND	432	108	400	3.64	

Sample ID: SP5 @ 5' (H703242-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	11/27/2017	ND	432	108	400	3.64	

Sample ID: SP5 @ 6' (H703242-07)

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	11/27/2017	ND	432	108	400	3.64	

Sample ID: SP5 @ 11' (H703242-08)

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	11/27/2017	ND	432	108	400	3.64	

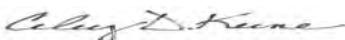
Sample ID: SP6 @ 5' (H703242-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	11/27/2017	ND	432	108	400	3.64	

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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:	11/21/2017	Sampling Date:	11/15/2017
Reported:	12/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ENDEAVOR- MALJAMAR NM		

Sample ID: SP6 @ 7' (H703242-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	11/27/2017	ND	432	108	400	3.64	

Sample ID: SP6 @ 9' (H703242-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	11/27/2017	ND	432	108	400	3.64	

Sample ID: SP6 @ 10' (H703242-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/27/2017	ND	432	108	400	3.64	

Sample ID: SP6 @ 12' (H703242-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/28/2017	ND	432	108	400	0.00	

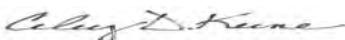
Sample ID: SP7 @ 4' (H703242-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	11/28/2017	ND	432	108	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:	11/21/2017	Sampling Date:	11/16/2017
Reported:	12/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ENDEAVOR- MALJAMAR NM		

Sample ID: SP7 @ 5' (H703242-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	11/28/2017	ND	432	108	400	0.00	

Sample ID: SP7 @ 6' (H703242-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	11/28/2017	ND	432	108	400	0.00	

Sample ID: SP7 @ 7' (H703242-17)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/28/2017	ND	432	108	400	0.00	

Sample ID: SP7 @ 12' (H703242-18)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/28/2017	ND	432	108	400	0.00	

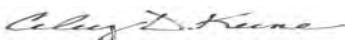
Sample ID: SP8 @ 4' (H703242-19)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	11/28/2017	ND	432	108	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:	11/21/2017	Sampling Date:	11/16/2017
Reported:	12/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ENDEAVOR- MALJAMAR NM		

Sample ID: SP8 @ 6' (H703242-20)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	11/28/2017	ND	432	108	400	0.00	

Sample ID: SP8 @ 8' (H703242-21)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	11/28/2017	ND	432	108	400	0.00	

Sample ID: SP8 @ 10' (H703242-22)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	11/28/2017	ND	432	108	400	0.00	

Sample ID: SP8 @ 12' (H703242-23)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/28/2017	ND	432	108	400	0.00	

Sample ID: SP8 @ 14' (H703242-24)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/28/2017	ND	432	108	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:	11/21/2017	Sampling Date:	11/16/2017
Reported:	12/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ENDEAVOR- MALJAMAR NM		

Sample ID: SP8 @ 18' (H703242-25)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/28/2017	ND	432	108	400	0.00	

Sample ID: SP10 @ 4' (H703242-26)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	11/28/2017	ND	432	108	400	0.00	

Sample ID: SP10 @ 6' (H703242-27)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	11/28/2017	ND	432	108	400	0.00	

Sample ID: SP10 @ 8' (H703242-28)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	11/28/2017	ND	432	108	400	0.00	

Sample ID: SP10 @ 9' (H703242-29)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	11/28/2017	ND	432	108	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:	11/21/2017	Sampling Date:	11/17/2017
Reported:	12/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ENDEAVOR- MALJAMAR NM		

Sample ID: SP10 @ 10' (H703242-30)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/28/2017	ND	432	108	400	0.00	

Sample ID: SP10 @ 15' (H703242-31)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/28/2017	ND	432	108	400	0.00	

Sample ID: SP12 @ 4' (H703242-32)

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	11/28/2017	ND	432	108	400	0.00	

Sample ID: SP12 @ 9' (H703242-33)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/28/2017	ND	416	104	400	3.77	

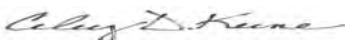
Sample ID: SP13 @ 4' (H703242-34)

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	11/28/2017	ND	416	104	400	3.77	

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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:	11/21/2017	Sampling Date:	11/17/2017
Reported:	12/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ENDEAVOR- MALJAMAR NM		

Sample ID: SP13 @ 9' (H703242-35)

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	11/28/2017	ND	416	104	400	3.77	

Sample ID: SP11 @ 4' (H703242-36)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	11/28/2017	ND	416	104	400	3.77	

Sample ID: SP11 @ 5' (H703242-37)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/29/2017	ND	416	104	400	3.77	

Sample ID: SP11 @ 6' (H703242-38)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/29/2017	ND	416	104	400	3.77	

Sample ID: SP11 @ 7' (H703242-39)

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	11/29/2017	ND	416	104	400	3.77	

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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:	11/21/2017	Sampling Date:	11/17/2017
Reported:	12/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ENDEAVOR- MALJAMAR NM		

Sample ID: SP11 @ 12' (H703242-40)

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	11/29/2017	ND	416	104	400	3.77	

Sample ID: SP9 @ 4' (H703242-41)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	11/29/2017	ND	416	104	400	3.77	

Sample ID: SP9 @ 6' (H703242-42)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	11/29/2017	ND	416	104	400	3.77	

Sample ID: SP9 @ 8' (H703242-43)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	11/29/2017	ND	416	104	400	3.77	

Sample ID: SP9 @ 10' (H703242-44)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	11/29/2017	ND	416	104	400	3.77	

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Analytical Results For:

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 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	11/21/2017	Sampling Date:	11/20/2017
Reported:	12/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ENDEAVOR- MALJAMAR NM		

Sample ID: SP9 @ 12' (H703242-45)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	11/29/2017	ND	416	104	400	3.77	

Sample ID: SP9 @ 13' (H703242-46)

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	11/29/2017	ND	416	104	400	3.77	

Sample ID: SP9 @ 18' (H703242-47)

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	11/29/2017	ND	416	104	400	3.77	

Sample ID: P1 @ SURFACE (H703242-48)

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	11/29/2017	ND	416	104	400	3.77	

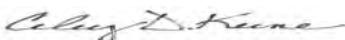
Sample ID: P1 @ 1' (H703242-49)

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	11/29/2017	ND	416	104	400	3.77	

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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:	11/21/2017	Sampling Date:	11/15/2017
Reported:	12/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ENDEAVOR- MALJAMAR NM		

Sample ID: P1 @ 5' (H703242-50)

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	11/29/2017	ND	416	104	400	3.77	

Sample ID: P2 @ SURFACE (H703242-51)

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	11/29/2017	ND	416	104	400	3.77	

Sample ID: P2 @ 1' (H703242-52)

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	11/29/2017	ND	416	104	400	3.77	

Sample ID: P2 @ 5' (H703242-53)

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	11/29/2017	ND	416	104	400	3.77	

Sample ID: P3 @ SURFACE (H703242-54)

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	11/29/2017	ND	416	104	400	3.77	

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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:	11/21/2017	Sampling Date:	11/15/2017
Reported:	12/04/2017	Sampling Type:	Soil
Project Name:	STATE NC #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ENDEAVOR- MALJAMAR NM		

Sample ID: P3 @ 1' (H703242-55)

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	11/29/2017	ND	416	104	400	3.77	

Sample ID: P3 @ 5' (H703242-56)

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	11/29/2017	ND	416	104	400	3.77	

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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



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

Page 19 of 20

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson		P.O. #:													
Address: P.O. Box 805		Company:													
City: Hobbs State: NM Zip: 88241		Attn:													
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:													
Project #: Project Owner: <i>Endevor</i>		City:													
Project Name: <i>State NC-1</i>		State: Zip:													
Project Location: <i>Neljenzu</i>		Phone #:													
Sampler Name: <i>1-0</i>		Fax #:													

FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING					
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME			
	<i>H703242</i>																	
	<i>41</i>	<i>SP904</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11-17</i>	<i>300</i>	<i>X</i>		
	<i>42</i>	<i>6</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11-20</i>	<i>117</i>	<i>X</i>		
	<i>43</i>	<i>8</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>				<i>145</i>	<i>X</i>		
	<i>44</i>	<i>10</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>				<i>211</i>	<i>X</i>		
	<i>45</i>	<i>12</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>				<i>233</i>	<i>X</i>		
	<i>46</i>	<i>13</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>				<i>301</i>	<i>X</i>		
	<i>47</i>	<i>18</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11-15</i>	<i>330</i>	<i>X</i>		
	<i>48</i>	<i>PIESUR</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11-15</i>	<i>915</i>	<i>X</i>		
	<i>49</i>	<i>1</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11-15</i>	<i>917</i>	<i>X</i>		
	<i>50</i>	<i>5</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11-15</i>	<i>925</i>	<i>X</i>		

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Relinquished By: <i>Cliff Brunson</i>	Date: <i>11-21-17</i>	Received By: <i>Jamara Oldaker</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: <i>4:20</i>	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) <i>3.2e</i>	Sample Condition	CHECKED BY: <i>TJH</i>	REMARKS:	
Sampler - UPS - Bus - Other: <i>Corrected 3.55e</i>	Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

6/6
 Page 20 of 20

Company Name: BBC International, Inc.		BILL TO				ANALYSIS REQUEST																								
Project Manager: Cliff Brunson		P.O. #:																												
Address: P.O. Box 805		Company:																												
City: Hobbs		Attn:																												
State: NM Zip: 88241		Address:																												
Phone #: 575-397-6388		City:																												
Fax #: 575-397-0397		State: Zip:																												
Project #: Project Owner: Endeavor		Phone #:																												
Project Name: State NC-1		Fax #:																												
Project Location: Maljones																														
Sampler Name: 30																														
FOR LAB USE ONLY																														
Lab I.D.	Sample I.D.	(GIRAB OR (C)OMP. # CONTAINERS	MATRIX	PRESERV.	SAMPLING																									
			GROUNDWATER	WASTEWATER	SOIL											OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME							
H703242					X														X			11-15	933	X						
51	P20SYR				X				X				940	X																
52	5				X				X				959	X																
53	5				X				X				1015	X																
54	P30SYR				X				X				1020	X																
55	5				X				X				1035	X																
56	5				X				X					X																

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>[Signature]</i>	Date: 11-21-17	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Time: 4:20	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) <i>3.2e</i>	Sample Condition	CHECKED BY: <i>T.O.H.S.</i>	REMARKS:	
Sampler - UPS - Bus - Other: <i>Corrected 3.55e</i>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

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

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Endeavor Energy Resources	Contact: Ashley Moore
Address: 110 N Marienfeld, Suite 200, Midland, TX 79706	Telephone No. (432) 557-5006
Facility Name: State NC # 001	Facility Type: Battery
Surface Owner: State	Mineral Owner
API No. 30-025-28695	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	3	16S	32E					Lea County, NM

Latitude N 32.96240° Longitude W 103.74775°

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 40 bbls produced water	Volume Recovered 10 bbls
Source of Release Injection pump thread broke at hammer union going to well head	Date and Hour of Occurrence 05/16/2017	Date and Hour of Discovery
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Olivia Yu -NMOCD, Amber Groves - SLO	
By Whom?	Date and Hour 05/17/2017	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RECEIVED
By Olivia Yu at 3:11 pm, May 30, 2017

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Vibration from the injection pump broke at hammer union going to well head. A vacuum truck recovered 10 bbls of fluid.

Describe Area Affected and Cleanup Action Taken.*

The affected area is 150' x 60' on the pad. The affect area is 75' x 8' off location. Remediation will be completed in accordance with a remediation plan approved by NMOCD.

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>Ashley Moore</i>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Ashley Moore	Approved by Environmental Specialist:	<i>[Signature]</i>
Title: Environmental Technician	Approval Date: 5/30/2017	Expiration Date:
E-mail Address: APMoore@eeronline.com	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>
Date: 5-30-17	Phone: (432) 557-5006	

* Attach Additional Sheets If Necessary

1RP-4710 nOY1715054791 pOY1715055160

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 5/30/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1R-4710 has been assigned. **Please refer to this case number in all future correspondence.**

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

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

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 6/30/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

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

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

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

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

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

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

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

Jim Griswold

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