



DELINEATION WORKPLAN

ENDEAVOR ENERGY RESOURCES

HARTON STATE #1 & #2 TANK BATTERY

(Leak Date: 8/15/16)

RP # 1RP-4407
API # 30-025-28540

PRELIMINARY RESULTS

This delineation workplan and remediation proposal addresses the release associated with RP # 1RP-4407.

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:

Edeavor will excavate the spill area as depicted on the following site diagram. The entire leak area will be excavated to a depth of 2.5 to 3 feet or as practicable. After excavation, an impermeable liner will be installed. Due to this being a working battery and accessibility is an issue and the hardness of the ground encountered during the sampling process, it is not possible to sample any deeper. The results show that OCD guideline numbers for the constituents were delineated and identified.

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.

Endeavor Energy Resources, Harton State #1 & #2 TB

Leak Date: 08/15/2016

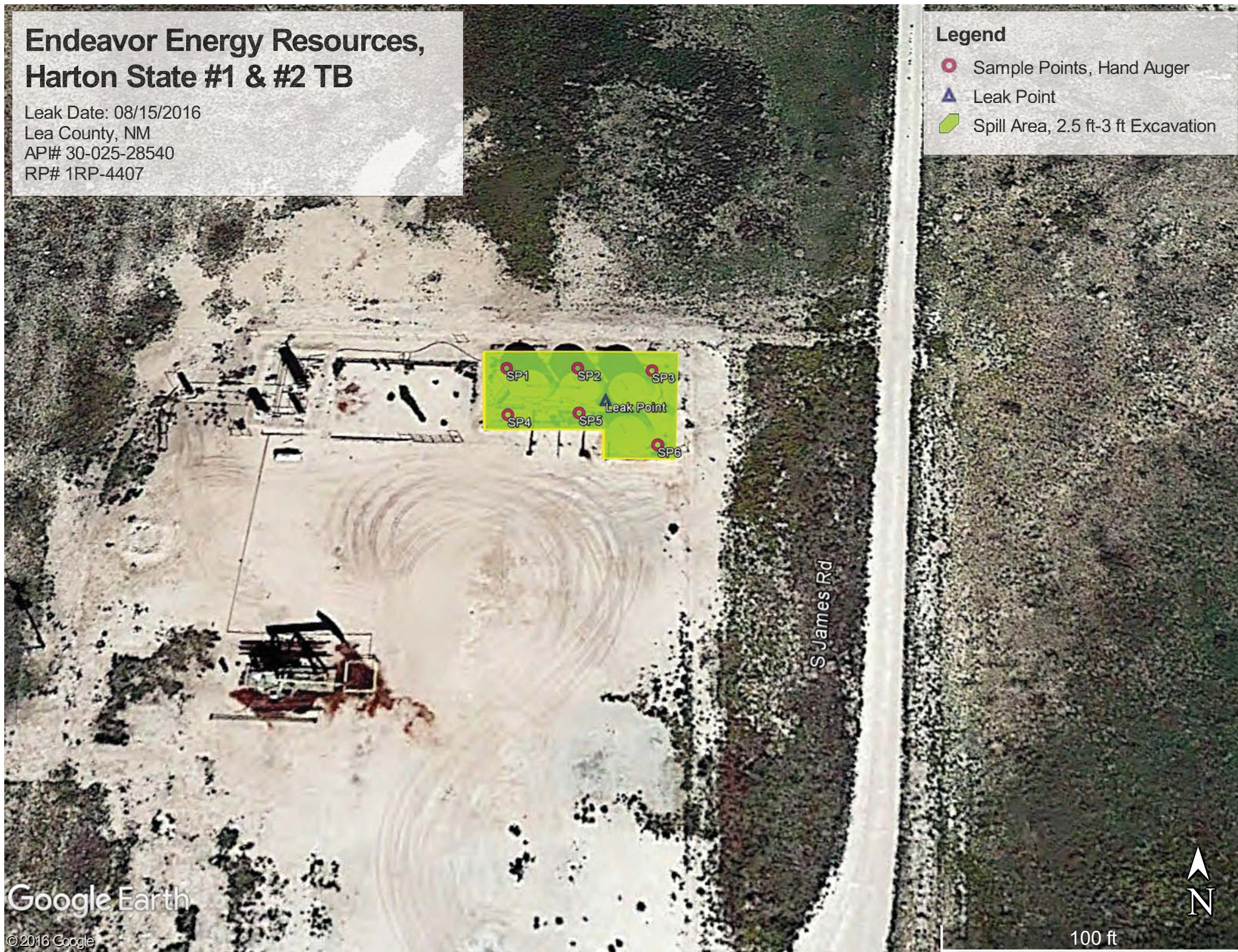
Lea County, NM

AP# 30-025-28540

RP# 1RP-4407

Legend

-  Sample Points, Hand Auger
-  Leak Point
-  Spill Area, 2.5 ft-3 ft Excavation



Endeavor Energy Resources, Harton State #1 & #2 Tank Battery

Sample Points, Hand Auger

SP1, GPS POINT: N 33.20748 W-103.33794

SP2, GPS POINT: N 33.20748 W-103.33785

SP3, GPS POINT: N 33.20747 W-103.33776

SP4, GPS POINT: N 33.20742 W-103.33794

SP5, GPS POINT: N 33.20742 W-103.33785

SP6, GPS POINT: N 33.20738 W-103.33775





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_00327	R	L	LE	1	1	1	08	13S	36E	655286	3676082*	<input type="text"/>	586	88	
L_00900	R	L	LE	2	1	3	08	13S	36E	655500	3675278*	<input type="text"/>	588	112	
L_00900 POD3		L	LE	2	1	3	08	13S	36E	655500	3675278*	<input type="text"/>	588	122	
L_00900 S		L	LE	4	1	4	08	13S	36E	655609	3674977*	<input type="text"/>	859	150	50 100
L_09659		L	LE		2	1	08	13S	36E	655790	3675990*	<input type="text"/>	899	65	
L_00327 POD2		L	LE	4	4	1	08	13S	36E	655895	3675486*	<input type="text"/>	907	88	
L_00200		L	LE	2	3	4	06	13S	36E	654475	3676473*	<input type="text"/>	1036	127	45 82
L_00200 S		L	LE	3	2	4	06	13S	36E	654871	3676681*	<input type="text"/>	1112	150	80 70
L_00180		L	LE	3	1	3	05	13S	36E	655273	3676687*	<input type="text"/>	1146	106	
L_12873 POD1		L	LE	4	3	3	06	13S	36E	653959	3676181	<input type="text"/>	1197	110	32 78
L_00180 S		L	LE	3	3	1	05	13S	36E	655266	3677089*	<input type="text"/>	1538	95	
L_08081		L	LE		2	2	08	13S	36E	656594	3676002*	<input type="text"/>	1657	60	45 15
L_05900		L	LE		3	1	17	13S	36E	655421	3673972*	<input type="text"/>	1659	120	50 70
L_04469		L	LE		2	2	12	13S	35E	653375	3675953*	<input type="text"/>	1660	88	40 48

Average Depth to Water: **48 feet**
Minimum Depth: **32 feet**
Maximum Depth: **80 feet**

Record Count: 14

UTMNAD83 Radius Search (in meters):

Easting (X): 654992

Northing (Y): 3675575

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.

3/22/17 4:17 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Public Land Survey System (PLSS)

☐

Q64:

Q16:

SE

Q4:

NE

Sec:

07

Tws:

13S

Rng:

36E

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):

654992.0

mtrs

Northing (Y):

3675575.0

mtrs

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



Groundwater Plot

Endeavor Energy Harton State #1 & #2 Tank Battery Resources

County
Lea

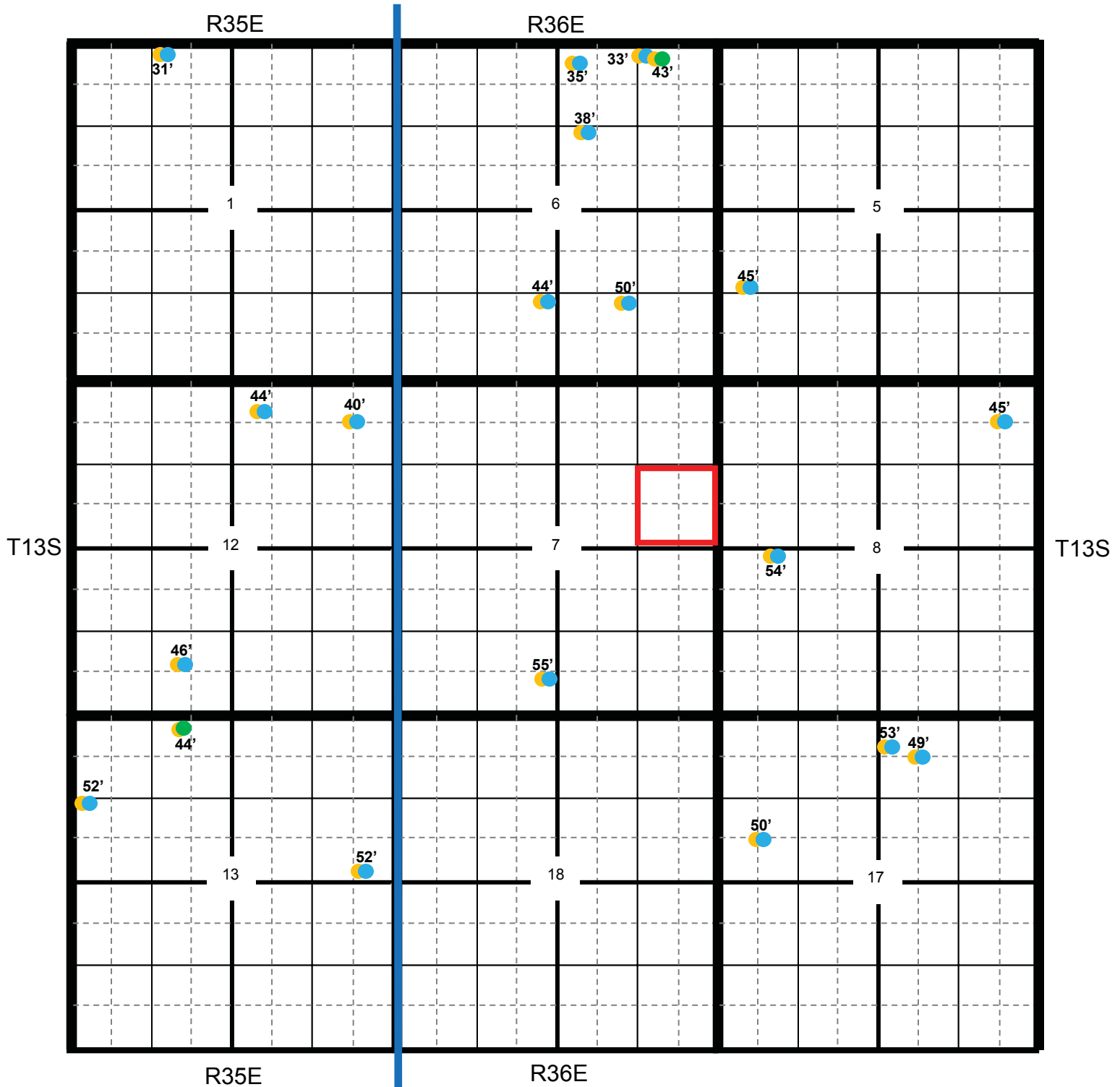
Unit Letter
H

Section
7

Township
13S

Range
36E

Trend Map 50'-100'



Location

OCD

USGS

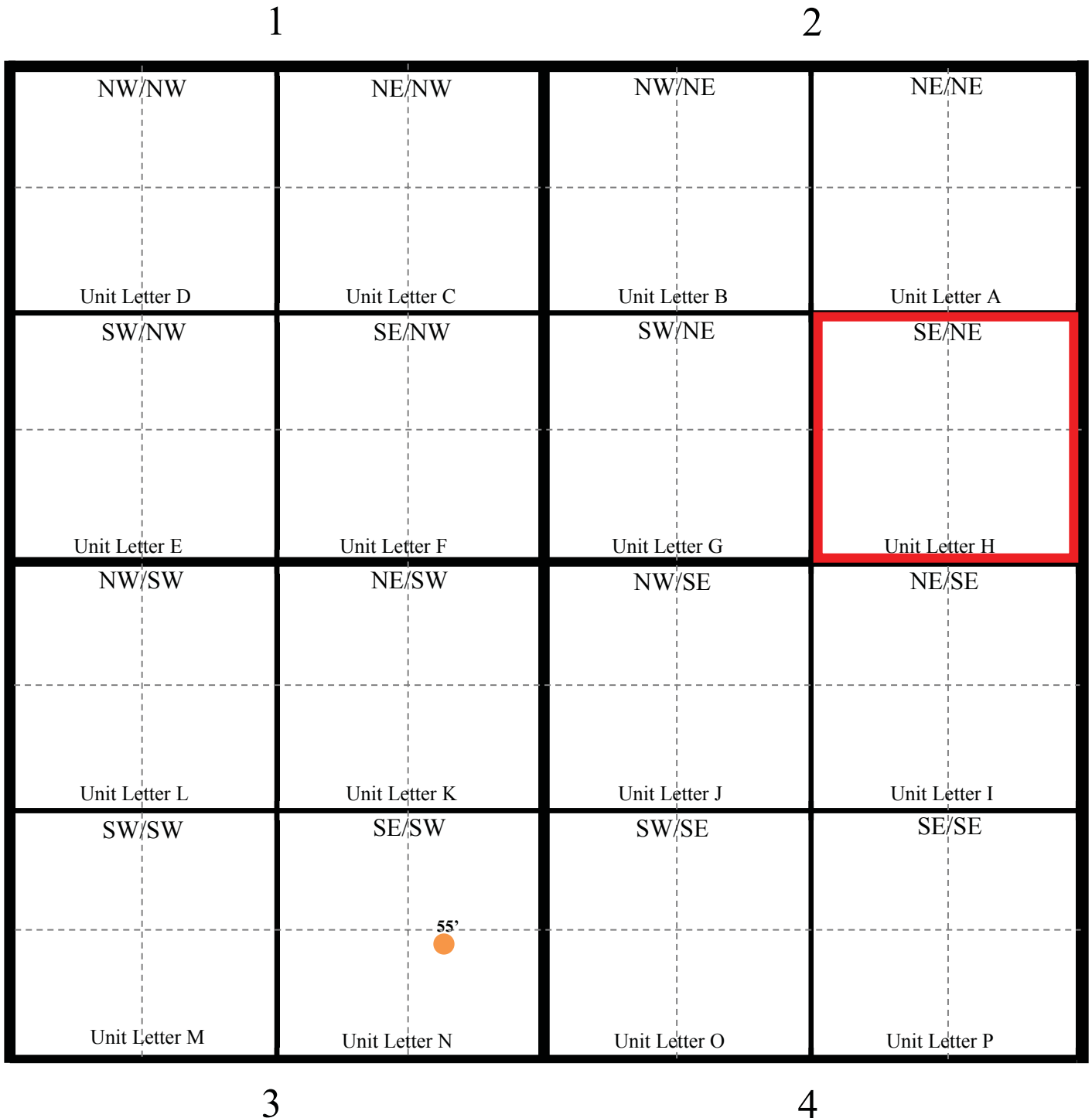
SEO

All Databases

Endeavor Energy Harton State #1 & #2 Tank Battery Resources

County Lea **Unit Letter** H **Section** 7 **Township** 13S **Range** 36E

Trend Map 50'-100'



**Laboratory Analytical Results Summary
Harton State #1 #2 Tank Battery**

		Sample	SP1 @ 1'	SP1 @ 2.5'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	9/15/16	9/15/16	10/5/16	10/11/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.315	<0.050	0.231	<0.050
Toluene	BTEX 8021B		0.693	0.402	0.706	<0.050
Ethylbenzene	BTEX 8021B		1.37	1.01	<0.200	<0.050
Total Xylenes	BTEX 8021B		7.28	6.46	12.4	<0.150
Total BTEX	BTEX 8021B		9.66	7.87	13.3	<0.300
Chloride	SM4500Cl-B		32	48	n/a	<16.0
GRO	TPH 8015M		216	305	261	<10.0
DRO	TPH 8015M		3280	7150	3420	16.9

		Sample	SP2 @ 1'	SP2 @ 2.5'	SP2 @ 3'
Analyte	Method	Date	9/15/16	9/15/16	10/5/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.44	0.477	<0.050
Ethylbenzene	BTEX 8021B		0.768	1.01	<0.050
Total Xylenes	BTEX 8021B		4.46	5.88	<0.150
Total BTEX	BTEX 8021B		5.67	7.37	<0.300
Chloride	SM4500Cl-B		48	48	n/a
GRO	TPH 8015M		344	311	<10.0
DRO	TPH 8015M		15700	12500	<10.0

		Sample	SP3 @ 1'	SP3 @ 2.5'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
Analyte	Method	Date	9/15/16	9/15/16	10/5/16	10/11/16	10/28/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	0.09	<0.050	n/a
Toluene	BTEX 8021B		0.419	0.346	0.831	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.918	0.475	1.12	0.143	n/a
Total Xylenes	BTEX 8021B		5.47	2.38	4.54	<0.150	n/a
Total BTEX	BTEX 8021B		6.81	3.2	6.58	<0.300	n/a
Chloride	SM4500Cl-B		64	48	n/a	48	32
GRO	TPH 8015M		244	129	17.5	<50.0	n/a
DRO	TPH 8015M		9250	5320	132	1370	n/a

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	9/19/16	10/5/16	10/11/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.791	0.131	<0.050
Toluene	BTEX 8021B		7.13	2.29	<0.050
Ethylbenzene	BTEX 8021B		3.76	3.07	<0.050
Total Xylenes	BTEX 8021B		16.8	13.7	<0.150
Total BTEX	BTEX 8021B		28.5	19.2	<0.300
Chloride	SM4500Cl-B		320	1470	<16.0
GRO	TPH 8015M		150	110	<10.0
DRO	TPH 8015M		475	1040	12.4

		Sample	SP5 @ 1'	SP5 @ 3'	SP5 @ 4'
Analyte	Method	Date	9/19/16	10/5/16	10/11/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		1.08	<0.050	<0.050
Toluene	BTEX 8021B		4.66	0.165	<0.050
Ethylbenzene	BTEX 8021B		2.17	<0.050	<0.050
Total Xylenes	BTEX 8021B		8.59	1.04	<0.150
Total BTEX	BTEX 8021B		16.5	1.21	<0.300
Chloride	SM4500Cl-B		64	80	32
GRO	TPH 8015M		126	<10.0	<10.0
DRO	TPH 8015M		141	1400	16

		Sample	SP6 @ 1'	SP6 @ 3'	SP6 @ 4'
Analyte	Method	Date	9/19/16	10/5/16	10/11/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	n/a	<0.050
Toluene	BTEX 8021B		0.946	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.200	n/a	<0.050
Total Xylenes	BTEX 8021B		14.2	n/a	<0.150
Total BTEX	BTEX 8021B		15.2	n/a	<0.300
Chloride	SM4500Cl-B		48	1400	<16.0
GRO	TPH 8015M		376	n/a	<10.0
DRO	TPH 8015M		2360	n/a	<10.0

September 26, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: HARTON STATE #1 & #2 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/21/16 9:00.

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:	09/21/2016	Sampling Date:	09/15/2016
Reported:	09/26/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER\	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 1' (H602100-01)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.315	0.100	09/22/2016	ND	2.24	112	2.00	0.900	
Toluene*	0.693	0.100	09/22/2016	ND	2.28	114	2.00	1.29	
Ethylbenzene*	1.37	0.100	09/22/2016	ND	2.20	110	2.00	1.49	
Total Xylenes*	7.28	0.300	09/22/2016	ND	6.68	111	6.00	1.74	
Total BTX	9.66	0.600	09/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 73.6-140

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	09/22/2016	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	216	50.0	09/21/2016	ND	196	98.2	200	2.00	QR-03
DRO >C10-C28	3280	50.0	09/21/2016	ND	204	102	200	0.832	QM-07

Surrogate: 1-Chlorooctane 124 % 35-147

Surrogate: 1-Chlorooctadecane 151 % 28-171

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:	09/21/2016	Sampling Date:	09/15/2016
Reported:	09/26/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 2.5' (H602100-02)

BTEx 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2016	ND	2.24	112	2.00	0.900	
Toluene*	0.402	0.050	09/22/2016	ND	2.28	114	2.00	1.29	
Ethylbenzene*	1.01	0.050	09/22/2016	ND	2.20	110	2.00	1.49	
Total Xylenes*	6.46	0.150	09/22/2016	ND	6.68	111	6.00	1.74	
Total BTEX	7.87	0.300	09/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 178 % 73.6-140

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	09/22/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	305	50.0	09/21/2016	ND	196	98.2	200	2.00	
DRO >C10-C28	7150	50.0	09/21/2016	ND	204	102	200	0.832	

Surrogate: 1-Chlorooctane 154 % 35-147

Surrogate: 1-Chlorooctadecane 207 % 28-171

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Received:	09/21/2016	Sampling Date:	09/15/2016
Reported:	09/26/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ 1' (H602100-03)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2016	ND	2.24	112	2.00	0.900	
Toluene*	0.440	0.050	09/22/2016	ND	2.28	114	2.00	1.29	
Ethylbenzene*	0.768	0.050	09/22/2016	ND	2.20	110	2.00	1.49	
Total Xylenes*	4.46	0.150	09/22/2016	ND	6.68	111	6.00	1.74	
Total BTX	5.67	0.300	09/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 161 % 73.6-140

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	09/22/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	344	100	09/21/2016	ND	196	98.2	200	2.00	
DRO >C10-C28	15700	100	09/21/2016	ND	204	102	200	0.832	

Surrogate: 1-Chlorooctane 151 % 35-147

Surrogate: 1-Chlorooctadecane 601 % 28-171

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Received:	09/21/2016	Sampling Date:	09/15/2016
Reported:	09/26/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ 2.5' (H602100-04)

BTEx 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2016	ND	2.24	112	2.00	0.900	
Toluene*	0.477	0.050	09/22/2016	ND	2.28	114	2.00	1.29	
Ethylbenzene*	1.01	0.050	09/22/2016	ND	2.20	110	2.00	1.49	
Total Xylenes*	5.88	0.150	09/22/2016	ND	6.68	111	6.00	1.74	
Total BTEX	7.37	0.300	09/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 166 % 73.6-140

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	09/22/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	311	100	09/21/2016	ND	196	98.2	200	2.00	
DRO >C10-C28	12500	100	09/21/2016	ND	204	102	200	0.832	

Surrogate: 1-Chlorooctane 145 % 35-147

Surrogate: 1-Chlorooctadecane 447 % 28-171

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Reported:	09/26/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ 1' (H602100-05)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2016	ND	2.24	112	2.00	0.900	
Toluene*	0.419	0.050	09/22/2016	ND	2.28	114	2.00	1.29	
Ethylbenzene*	0.918	0.050	09/22/2016	ND	2.20	110	2.00	1.49	
Total Xylenes*	5.47	0.150	09/22/2016	ND	6.68	111	6.00	1.74	
Total BTX	6.81	0.300	09/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 161 % 73.6-140

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	09/22/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	244	100	09/21/2016	ND	196	98.2	200	2.00	
DRO >C10-C28	9250	100	09/21/2016	ND	204	102	200	0.832	

Surrogate: 1-Chlorooctane 135 % 35-147

Surrogate: 1-Chlorooctadecane 337 % 28-171

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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:	09/21/2016	Sampling Date:	09/15/2016
Reported:	09/26/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ 2.5' (H602100-06)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2016	ND	2.24	112	2.00	0.900	
Toluene*	0.346	0.050	09/22/2016	ND	2.28	114	2.00	1.29	
Ethylbenzene*	0.475	0.050	09/22/2016	ND	2.20	110	2.00	1.49	
Total Xylenes*	2.38	0.150	09/22/2016	ND	6.68	111	6.00	1.74	
Total BTEX	3.20	0.300	09/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 162 % 73.6-140

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	09/22/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	129	50.0	09/21/2016	ND	196	98.2	200	2.00	
DRO >C10-C28	5320	50.0	09/21/2016	ND	204	102	200	0.832	

Surrogate: 1-Chlorooctane 121 % 35-147

Surrogate: 1-Chlorooctadecane 186 % 28-171

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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:	09/21/2016	Sampling Date:	09/19/2016
Reported:	09/26/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 4 @ 1' (H602100-07)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.791	0.050	09/22/2016	ND	2.24	112	2.00	0.900	
Toluene*	7.13	0.050	09/22/2016	ND	2.28	114	2.00	1.29	
Ethylbenzene*	3.76	0.050	09/22/2016	ND	2.20	110	2.00	1.49	
Total Xylenes*	16.8	0.150	09/22/2016	ND	6.68	111	6.00	1.74	
Total BTEx	28.5	0.300	09/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 158 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/23/2016	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	150	10.0	09/22/2016	ND	196	98.2	200	2.00	
DRO >C10-C28	475	10.0	09/22/2016	ND	204	102	200	0.832	

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

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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:	09/21/2016	Sampling Date:	09/19/2016
Reported:	09/26/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 4 @ 2.5' (H602100-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.756	0.200	09/23/2016	ND	1.78	89.0	2.00	0.762	
Toluene*	8.96	0.200	09/23/2016	ND	1.81	90.3	2.00	0.839	
Ethylbenzene*	8.46	0.200	09/23/2016	ND	1.72	86.1	2.00	1.08	
Total Xylenes*	35.6	0.600	09/23/2016	ND	5.21	86.8	6.00	1.07	
Total BTX	53.8	1.20	09/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 138 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	09/23/2016	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	354	50.0	09/22/2016	ND	196	98.2	200	2.00	
DRO >C10-C28	1560	50.0	09/22/2016	ND	204	102	200	0.832	

Surrogate: 1-Chlorooctane 112 % 35-147

Surrogate: 1-Chlorooctadecane 117 % 28-171

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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:	09/21/2016	Sampling Date:	09/19/2016
Reported:	09/26/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 5 @ 1' (H602100-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.08	0.050	09/23/2016	ND	1.78	89.0	2.00	0.762	
Toluene*	4.66	0.050	09/23/2016	ND	1.81	90.3	2.00	0.839	
Ethylbenzene*	2.17	0.050	09/23/2016	ND	1.72	86.1	2.00	1.08	
Total Xylenes*	8.59	0.150	09/23/2016	ND	5.21	86.8	6.00	1.07	
Total BTX	16.5	0.300	09/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.6-140

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	09/23/2016	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	126	10.0	09/22/2016	ND	195	97.5	200	0.733	QM-07
DRO >C10-C28	141	10.0	09/22/2016	ND	203	102	200	1.22	QM-07

Surrogate: 1-Chlorooctane 91.7 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

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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:	09/21/2016	Sampling Date:	09/19/2016
Reported:	09/26/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 5 @ 2.5' (H602100-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.097	0.050	09/23/2016	ND	1.78	89.0	2.00	0.762	
Toluene*	1.01	0.050	09/23/2016	ND	1.81	90.3	2.00	0.839	
Ethylbenzene*	0.889	0.050	09/23/2016	ND	1.72	86.1	2.00	1.08	
Total Xylenes*	4.76	0.150	09/23/2016	ND	5.21	86.8	6.00	1.07	
Total BTEX	6.76	0.300	09/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	09/23/2016	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	67.2	10.0	09/22/2016	ND	195	97.5	200	0.733	
DRO >C10-C28	804	10.0	09/22/2016	ND	203	102	200	1.22	

Surrogate: 1-Chlorooctane 97.8 % 35-147

Surrogate: 1-Chlorooctadecane 140 % 28-171

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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:	09/21/2016	Sampling Date:	09/19/2016
Reported:	09/26/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 6 @ 1' (H602100-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/23/2016	ND	1.78	89.0	2.00	0.762	
Toluene*	0.946	0.200	09/23/2016	ND	1.81	90.3	2.00	0.839	
Ethylbenzene*	<0.200	0.200	09/23/2016	ND	1.72	86.1	2.00	1.08	
Total Xylenes*	14.2	0.600	09/23/2016	ND	5.21	86.8	6.00	1.07	
Total BTX	15.2	1.20	09/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 73.6-140

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	09/23/2016	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	376	10.0	09/22/2016	ND	195	97.5	200	0.733	
DRO >C10-C28	2360	10.0	09/22/2016	ND	203	102	200	1.22	

Surrogate: 1-Chlorooctane 114 % 35-147

Surrogate: 1-Chlorooctadecane 118 % 28-171

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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:	09/21/2016	Sampling Date:	09/19/2016
Reported:	09/26/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER'	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 6 @ 2.5' (H602100-12)

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	09/23/2016	ND	1.78	89.0	2.00	0.762	
Toluene*	0.088	0.050	09/23/2016	ND	1.81	90.3	2.00	0.839	
Ethylbenzene*	0.118	0.050	09/23/2016	ND	1.72	86.1	2.00	1.08	
Total Xylenes*	0.599	0.150	09/23/2016	ND	5.21	86.8	6.00	1.07	
Total BTEX	0.805	0.300	09/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	09/23/2016	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	09/22/2016	ND	195	97.5	200	0.733	
DRO >C10-C28	40.4	10.0	09/22/2016	ND	203	102	200	1.22	

Surrogate: 1-Chlorooctane 93.4 % 35-147

Surrogate: 1-Chlorooctadecane 99.3 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if 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

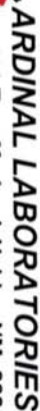
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Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Page 15 of 16



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

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

October 13, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: HARTON STATE #1 & #2 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/06/16 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:	10/06/2016	Sampling Date:	10/05/2016
Reported:	10/13/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER\	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 3' (H602259-01)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.231	0.200	10/11/2016	ND	2.18	109	2.00	1.38	
Toluene*	0.706	0.200	10/11/2016	ND	2.27	114	2.00	1.12	
Ethylbenzene*	<0.200	0.200	10/11/2016	ND	2.21	110	2.00	1.03	
Total Xylenes*	12.4	0.600	10/11/2016	ND	6.66	111	6.00	0.694	
Total BTX	13.3	1.20	10/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	261	50.0	10/08/2016	ND	185	92.3	200	5.29	
DRO >C10-C28	3420	50.0	10/08/2016	ND	199	99.4	200	0.107	

Surrogate: 1-Chlorooctane 112 % 35-147

Surrogate: 1-Chlorooctadecane 149 % 28-171

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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:	10/06/2016	Sampling Date:	10/05/2016
Reported:	10/13/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ 3' (H602259-02)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2016	ND	2.18	109	2.00	1.38		
Toluene*	<0.050	0.050	10/11/2016	ND	2.27	114	2.00	1.12		
Ethylbenzene*	<0.050	0.050	10/11/2016	ND	2.21	110	2.00	1.03		
Total Xylenes*	<0.150	0.150	10/11/2016	ND	6.66	111	6.00	0.694		
Total BTEX	<0.300	0.300	10/11/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.6-140

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	10/08/2016	ND	185	92.3	200	5.29		
DRO >C10-C28	<10.0	10.0	10/08/2016	ND	199	99.4	200	0.107		

Surrogate: 1-Chlorooctane 83.2 % 35-147

Surrogate: 1-Chlorooctadecane 90.1 % 28-171

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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:	10/06/2016	Sampling Date:	10/05/2016
Reported:	10/13/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ 3' (H602259-03)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.090	0.050	10/11/2016	ND	2.18	109	2.00	1.38	
Toluene*	0.831	0.050	10/11/2016	ND	2.27	114	2.00	1.12	
Ethylbenzene*	1.12	0.050	10/11/2016	ND	2.21	110	2.00	1.03	
Total Xylenes*	4.54	0.150	10/11/2016	ND	6.66	111	6.00	0.694	
Total BTX	6.58	0.300	10/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	17.5	10.0	10/08/2016	ND	185	92.3	200	5.29	
DRO >C10-C28	132	10.0	10/08/2016	ND	199	99.4	200	0.107	

Surrogate: 1-Chlorooctane 88.7 % 35-147

Surrogate: 1-Chlorooctadecane 96.6 % 28-171

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P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	10/06/2016	Sampling Date:	10/05/2016
Reported:	10/13/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 4 @ 3' (H602259-04)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.131	0.100	10/11/2016	ND	2.18	109	2.00	1.38	
Toluene*	2.29	0.100	10/11/2016	ND	2.27	114	2.00	1.12	
Ethylbenzene*	3.07	0.100	10/11/2016	ND	2.21	110	2.00	1.03	
Total Xylenes*	13.7	0.300	10/11/2016	ND	6.66	111	6.00	0.694	
Total BTX	19.2	0.600	10/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 139 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	10/10/2016	ND	416	104	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	110	50.0	10/08/2016	ND	185	92.3	200	5.29	
DRO >C10-C28	1040	50.0	10/08/2016	ND	199	99.4	200	0.107	

Surrogate: 1-Chlorooctane 96.7 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 28-171

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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:	10/06/2016	Sampling Date:	10/05/2016
Reported:	10/13/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 5 @ 3' (H602259-05)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2016	ND	2.18	109	2.00	1.38		
Toluene*	0.165	0.050	10/11/2016	ND	2.27	114	2.00	1.12		
Ethylbenzene*	<0.050	0.050	10/11/2016	ND	2.21	110	2.00	1.03		
Total Xylenes*	1.04	0.150	10/11/2016	ND	6.66	111	6.00	0.694		
Total BTEX	1.21	0.300	10/11/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.6-140

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	10/10/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/10/2016	ND	188	94.1	200	3.55	
DRO >C10-C28	479	10.0	10/10/2016	ND	214	107	200	4.52	QM-07

Surrogate: 1-Chlorooctane 91.4 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

Sample ID: SP 6 @ 3' (H602259-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1400	16.0	10/10/2016	ND	416	104	400	0.00		

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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 if 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



BILL TO

ANALYSIS REQUEST

Page 8 of 8

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

October 26, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: HARTON STATE #1 & #2 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/21/16 15:40.

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:	10/21/2016	Sampling Date:	10/11/2016
Reported:	10/26/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER\	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 4' (H602378-01)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2016	ND	1.82	90.9	2.00	0.937	
Toluene*	<0.050	0.050	10/25/2016	ND	2.18	109	2.00	1.70	
Ethylbenzene*	<0.050	0.050	10/25/2016	ND	2.26	113	2.00	1.31	
Total Xylenes*	<0.150	0.150	10/25/2016	ND	6.90	115	6.00	1.38	
Total BTX	<0.300	0.300	10/25/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

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	10/24/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/24/2016	ND	192	96.0	200	0.722	
DRO >C10-C28	16.9	10.0	10/24/2016	ND	222	111	200	1.28	

Surrogate: 1-Chlorooctane 83.2 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

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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:	10/21/2016	Sampling Date:	10/11/2016
Reported:	10/26/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ 4' (H602378-02)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2016	ND	1.82	90.9	2.00	0.937	
Toluene*	<0.050	0.050	10/25/2016	ND	2.18	109	2.00	1.70	
Ethylbenzene*	0.143	0.050	10/25/2016	ND	2.26	113	2.00	1.31	
Total Xylenes*	<0.150	0.150	10/25/2016	ND	6.90	115	6.00	1.38	
Total BTX	<0.300	0.300	10/25/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.6-140

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	10/24/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	10/24/2016	ND	192	96.0	200	0.722	
DRO >C10-C28	1370	50.0	10/24/2016	ND	222	111	200	1.28	

Surrogate: 1-Chlorooctane 89.9 % 35-147

Surrogate: 1-Chlorooctadecane 128 % 28-171

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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:	10/21/2016	Sampling Date:	10/11/2016
Reported:	10/26/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 4 @ 4' (H602378-03)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2016	ND	1.82	90.9	2.00	0.937		
Toluene*	<0.050	0.050	10/25/2016	ND	2.18	109	2.00	1.70		
Ethylbenzene*	<0.050	0.050	10/25/2016	ND	2.26	113	2.00	1.31		
Total Xylenes*	<0.150	0.150	10/25/2016	ND	6.90	115	6.00	1.38		
Total BTEx	<0.300	0.300	10/25/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

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	10/24/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/24/2016	ND	192	96.0	200	0.722	
DRO >C10-C28	12.4	10.0	10/24/2016	ND	222	111	200	1.28	

Surrogate: 1-Chlorooctane 84.3 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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

Received:	10/21/2016	Sampling Date:	10/11/2016
Reported:	10/26/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 5 @ 4' (H602378-04)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2016	ND	1.82	90.9	2.00	0.937		
Toluene*	<0.050	0.050	10/25/2016	ND	2.18	109	2.00	1.70		
Ethylbenzene*	<0.050	0.050	10/25/2016	ND	2.26	113	2.00	1.31		
Total Xylenes*	<0.150	0.150	10/25/2016	ND	6.90	115	6.00	1.38		
Total BTX	<0.300	0.300	10/25/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

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	10/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/24/2016	ND	192	96.0	200	0.722	
DRO >C10-C28	16.0	10.0	10/24/2016	ND	222	111	200	1.28	

Surrogate: 1-Chlorooctane 86.1 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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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:	10/21/2016	Sampling Date:	10/11/2016
Reported:	10/26/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 6 @ 4' (H602378-05)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2016	ND	1.82	90.9	2.00	0.937	
Toluene*	<0.050	0.050	10/25/2016	ND	2.18	109	2.00	1.70	
Ethylbenzene*	<0.050	0.050	10/25/2016	ND	2.26	113	2.00	1.31	
Total Xylenes*	<0.150	0.150	10/25/2016	ND	6.90	115	6.00	1.38	
Total BTEx	<0.300	0.300	10/25/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

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	10/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/24/2016	ND	192	96.0	200	0.722	
DRO >C10-C28	<10.0	10.0	10/24/2016	ND	222	111	200	1.28	

Surrogate: 1-Chlorooctane 83.1 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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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

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*=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.		BILL TO		ANALYSIS REQUEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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November 10, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: HARTON STATE #1 & #2 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/03/16 11:26.

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:	11/03/2016	Sampling Date:	10/28/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	HARTON STATE #1 & #2 TANK BATTER\	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ 5' (H602480-01)

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	11/07/2016	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

1 of 4

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

State: NM Zip: 88241

Phone #: 575-397-6388

Fax #: 575-397-0397

Project #: *Endavol Energy*

Project Owner:

Project Name: Harton State #1 & #2 Tank Battery

Project Location: Lea County, NM

Sample Name: Price Brunson

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

SP3 @ 5'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

10/28/16

10:30 am

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Relinquished By:

Date: *11/16/16* Received By:

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

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

Relinquished By:

Date: *11/16/16* Received By:

Time:

Time:

Delivered By: (Circle One)

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

-4.80

Sample Condition Cool ☒ Intact ☐ Yes ☐ No

CHECKED BY: *(initials)*

† 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

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: Endeavor Energy Resources	Contact: Ashley Moore	
Address: 110 N Marienfeld, Suite 200, Midland, TX 79706	Telephone No. (432) 557-5006	
Facility Name: Harton State #1 & #2 Tank Battery	Facility Type: Battery	
Surface Owner: William Paige McNeill	Mineral Owner	API No. 30-025-28540

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	7	13S	36E					Lea County, NM

Latitude N 33.20734° Longitude W 103.33786°

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	16 bbls oil, 60 bbls produced water	Volume Recovered	45 bbls
Source of Release	Water leg on heater treater was plugged, sending water to the oil tank causing an overflow	Date and Hour of Occurrence	08/15/2016	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?	Jamie Keyes, Kristen Lynch-NMOCD		
By Whom?	Jennifer Gilkey, BBC International Inc.	Date and Hour	08/16/2016 @ 5:05 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input 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 water leg on the heater treater was plugged, send excess water to the oil tank, causing it to overflow and leak 16 bbls of oil and 60 bbls of produced water. A vacuum truck recovered 45 bbls of fluid and the water leg was returned to service.					
Describe Area Affected and Cleanup Action Taken.*					
The affected area is 50' x 40' inside the berm of the battery on 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: 		<u>OIL CONSERVATION DIVISION</u>			
Printed Name: Ashley Moore		Approved by Environmental Specialist:			
Title: Environmental Technician		Approval Date:		Expiration Date:	
E-mail Address: APMoore@eeronline.com		Conditions of Approval:		Attached <input type="checkbox"/>	
Date: 8/19/16		Phone: (432) 557-5006			

* Attach Additional Sheets If Necessary