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NMOCD approves of the delineation completed and proposed remediation for 1RP-5075 with one condition: sidewall confirmation samples (at 4 ft. and 2.5 ft. bgs excavation) and bottom confirmation sample (at 2.5 ft. bgs excavation) are required. Additionally, please provide GPS coordinates for all remediation confirmation sample locations. Please be advised, confirmation sample points must not be no more than 50 ft apart and to be tested for BTEX, TPH Extended, and chlorides (sidewalls). Please provide photos for documentation including properly placed liner in the remediation closure report.

DELINEATION WORKPLAN

COG – CROCKETT STATE #002H (Leak Date: 5/22/18)

RP # 1RP-5075

APPROVED

By CHernandez at 3:50 pm, Jul 23, 2018

This delineation workplan and remediation proposal addresses the release associated with RP # 1RP-5075.

The following information includes:

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

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

COG will excavate the spill area as depicted on the following site diagram. The leak area near SP1 and SP2 (pink shade on diagram) will be excavated to a depth of 4 feet with an impermeable liner placed in the excavation. The leak area near SP3 (blue shade on diagram) will be excavated to a depth of 2.5 feet.






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

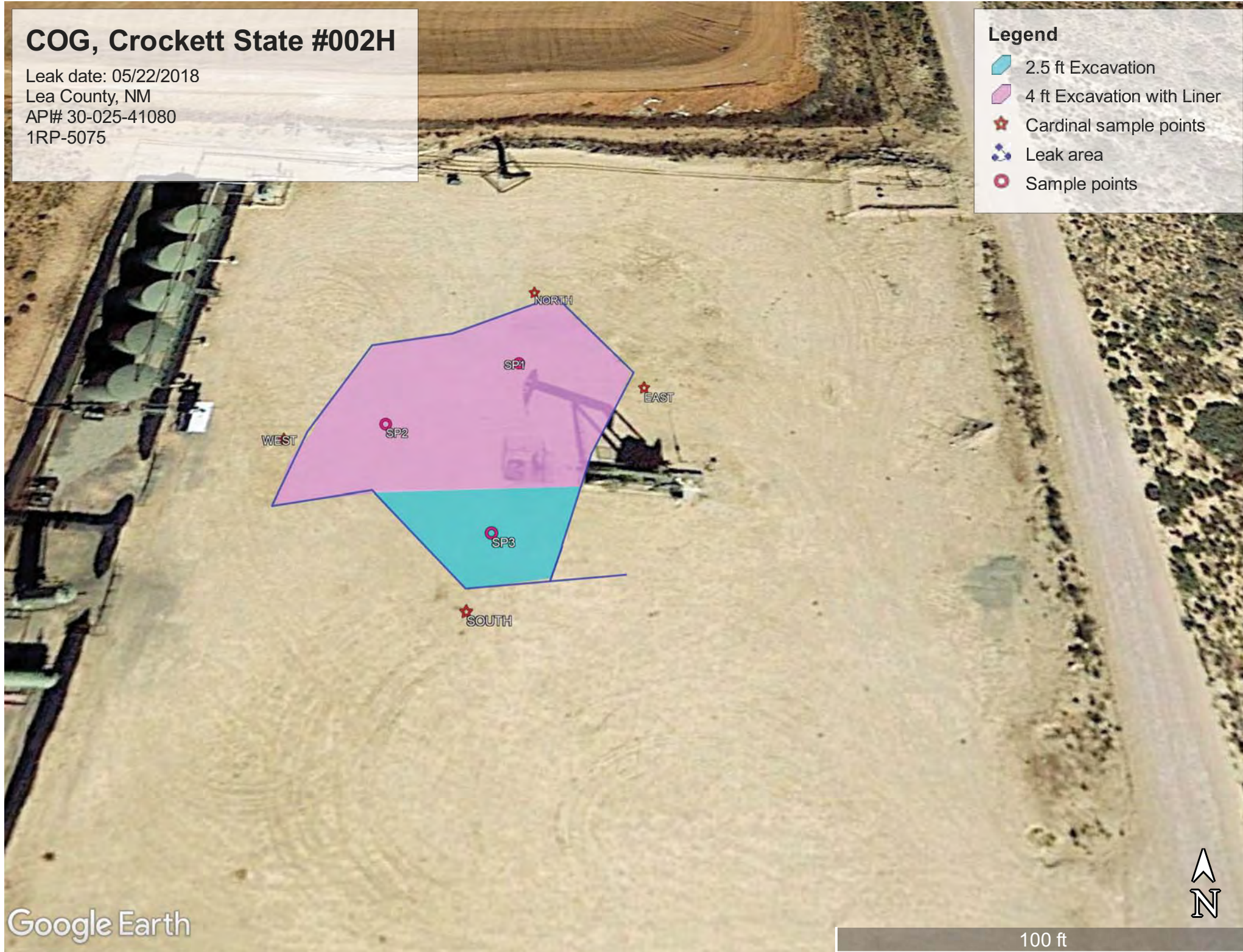
All excavated materials will be disposed of at an NMOCD-approved disposal facility.

COG, Crockett State #002H

Leak date: 05/22/2018
Lea County, NM
API# 30-025-41080
1RP-5075

Legend

-  2.5 ft Excavation
-  4 ft Excavation with Liner
-  Cardinal sample points
-  Leak area
-  Sample points



COG, Crockett State #002H

Sample points

SP1, N 32.46539 W-103.58669

SP2, N 32.46532 W-103.58682

SP3, N 32.46521 W-103.58670

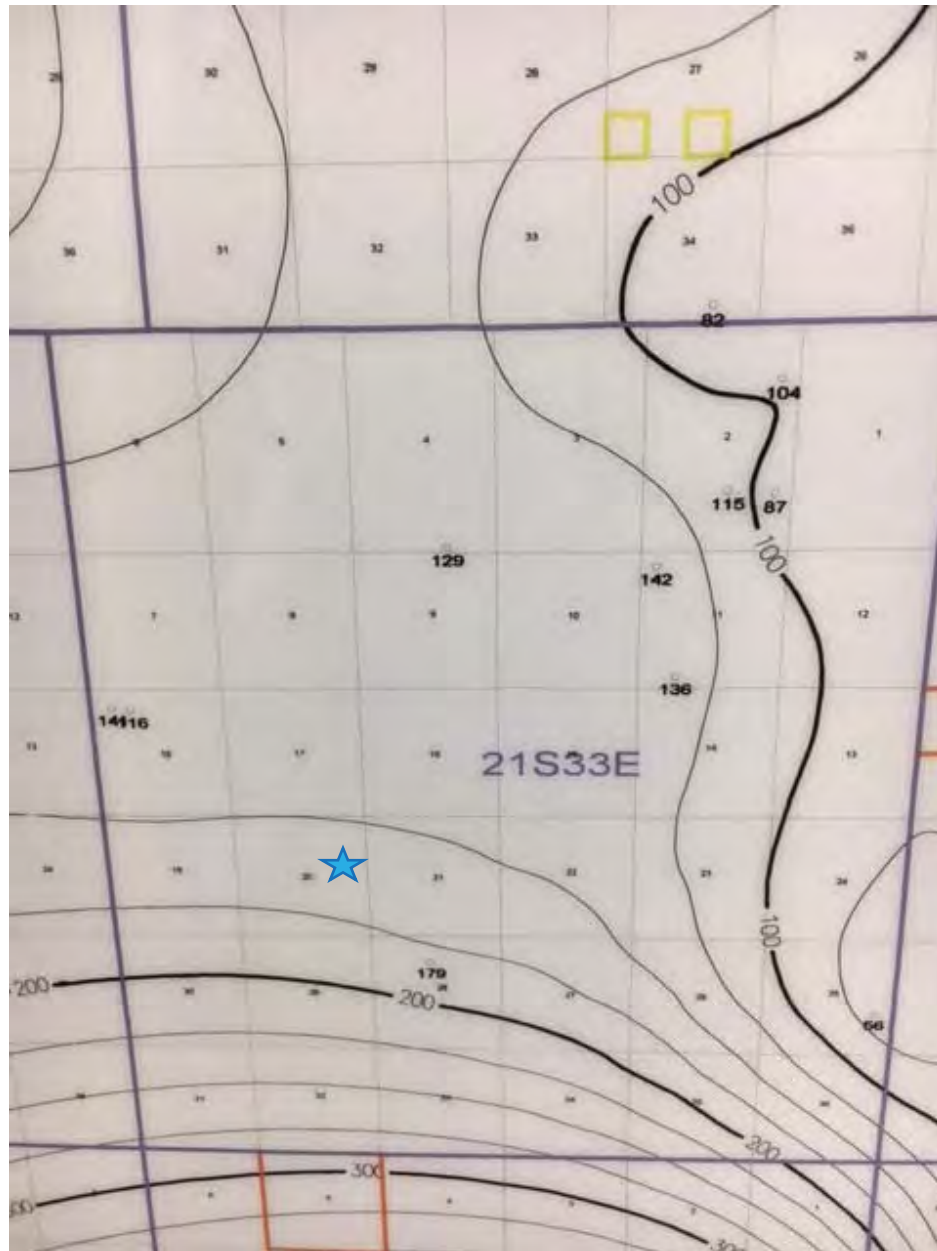
NORTH, N 32.46548 W-103.58668

SOUTH, N 32.46513 W-103.58672

EAST, N 32.46537 W-103.58656

WEST, N 32.46530 W-103.58691

COG, Crockett State #002H
U/L H, Section 20, T21S, R33E
Groundwater: 150'-175'





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	POD		Q Q Q				Rng	X	Y	Distance	Depth		Water
	Code	basin	64	16	4	Sec					Well	Water	
CP 00601 POD1	CP	LE	2	1	28	21S	33E	633502	3591791*	1451	223		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 632681

Northing (Y): 3592988

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.

Public Land Survey System (PLSS)

☒ Q64: Q16: SE Q4: NE Sec: 20 Tws: 21S Rng: 33E

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): 632681.0 mtrsNorthing (Y): 3592988.0 mtrs**~~ Please keep screen open to copy UTM values for Reports. ~~**

Laboratory Analytical Results Summary
Crockett State #002H (5-22-18)

		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'	SP1 @ 6'	SP1 @ 7'	SP1 @ 8'
Analyte	Method	Date	6/26/18	6/26/18	6/26/18	6/26/18	6/26/18	6/26/18	6/26/18	6/26/18	6/26/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.093	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		0.168	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		368	240	1880	2960	1630	1010	1070	160	80
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		26.7	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		12.1	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'	SP2 @ 6'	SP2 @ 7'	SP2 @ 8'
Analyte	Method	Date	6/26/18	6/26/18	6/26/18	6/26/18	6/26/18	6/26/18	6/26/18	6/26/18	6/26/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		320	224	1700	2880	1550	1040	1070	192	96
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		35.1	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		20.6	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	6/26/18	6/26/18	6/29/18	6/29/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		3720	2640	896	48
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		35.2	<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	6/29/18	6/29/18	6/29/18	6/29/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		64	96	64	80
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

July 09, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CROCKETT STATE #002H

Enclosed are the results of analyses for samples received by the laboratory on 07/05/18 11:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/05/2018	Sampling Date:	06/26/2018
Reported:	07/09/2018	Sampling Type:	Soil
Project Name:	CROCKETT STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 1 @ SURFACE (H801823-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.093	0.050	07/06/2018	ND	1.72	85.8	2.00	1.61	
Toluene*	0.168	0.050	07/06/2018	ND	1.71	85.7	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/06/2018	ND	1.70	84.9	2.00	0.619	
Total Xylenes*	<0.150	0.150	07/06/2018	ND	5.31	88.4	6.00	0.420	
Total BTEX	<0.300	0.300	07/06/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/06/2018	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	07/05/2018	ND	185	92.5	200	5.77	
DRO >C10-C28*	26.7	10.0	07/05/2018	ND	210	105	200	2.11	
EXT DRO >C28-C36	12.1	10.0	07/05/2018	ND					

Surrogate: 1-Chlorooctane 82.1 % 41-142

Surrogate: 1-Chlorooctadecane 92.4 % 37.6-147

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*=Accredited Analyte

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Received:	07/05/2018	Sampling Date:	06/26/2018
Reported:	07/09/2018	Sampling Type:	Soil
Project Name:	CROCKETT STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 1 @ 1' (H801823-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2018	ND	1.72	85.8	2.00	1.61	
Toluene*	<0.050	0.050	07/06/2018	ND	1.71	85.7	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/06/2018	ND	1.70	84.9	2.00	0.619	
Total Xylenes*	<0.150	0.150	07/06/2018	ND	5.31	88.4	6.00	0.420	
Total BTEX	<0.300	0.300	07/06/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/06/2018	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	07/05/2018	ND	185	92.5	200	5.77	
DRO >C10-C28*	<10.0	10.0	07/05/2018	ND	210	105	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	07/05/2018	ND					

Surrogate: 1-Chlorooctane 92.1 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Received:	07/05/2018	Sampling Date:	06/26/2018
Reported:	07/09/2018	Sampling Type:	Soil
Project Name:	CROCKETT STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 1 @ 2' (H801823-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	07/06/2018	ND	432	108	400	0.00	

Sample ID: SP 1 @ 3' (H801823-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	07/06/2018	ND	432	108	400	0.00	

Sample ID: SP 1 @ 4' (H801823-05)

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	07/06/2018	ND	432	108	400	0.00		

Sample ID: SP 1 @ 5' (H801823-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	07/06/2018	ND	432	108	400	7.69	

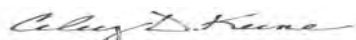
Sample ID: SP 1 @ 6' (H801823-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	07/06/2018	ND	432	108	400	7.69	

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Received:	07/05/2018	Sampling Date:	06/26/2018
Reported:	07/09/2018	Sampling Type:	Soil
Project Name:	CROCKETT STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 1 @ 7' (H801823-08)

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	07/06/2018	ND	432	108	400	7.69		

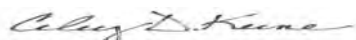
Sample ID: SP 1 @ 8' (H801823-09)

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	07/06/2018	ND	432	108	400	7.69		

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Received:	07/05/2018	Sampling Date:	06/26/2018
Reported:	07/09/2018	Sampling Type:	Soil
Project Name:	CROCKETT STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 2 @ SURFACE (H801823-10)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/06/2018	ND	1.72	85.8	2.00	1.61		
Toluene*	<0.050	0.050	07/06/2018	ND	1.71	85.7	2.00	1.32		
Ethylbenzene*	<0.050	0.050	07/06/2018	ND	1.70	84.9	2.00	0.619		
Total Xylenes*	<0.150	0.150	07/06/2018	ND	5.31	88.4	6.00	0.420		
Total BTX	<0.300	0.300	07/06/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

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	07/06/2018	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2018	ND	185	92.5	200	5.77	
DRO >C10-C28*	35.1	10.0	07/05/2018	ND	210	105	200	2.11	
EXT DRO >C28-C36	20.6	10.0	07/05/2018	ND					


Surrogate: 1-Chlorooctane 86.0 % 41-142

Surrogate: 1-Chlorooctadecane 96.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/05/2018	Sampling Date:	06/26/2018
Reported:	07/09/2018	Sampling Type:	Soil
Project Name:	CROCKETT STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 2 @ 1' (H801823-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2018	ND	1.72	85.8	2.00	1.61	
Toluene*	<0.050	0.050	07/06/2018	ND	1.71	85.7	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/06/2018	ND	1.70	84.9	2.00	0.619	
Total Xylenes*	<0.150	0.150	07/06/2018	ND	5.31	88.4	6.00	0.420	
Total BTEX	<0.300	0.300	07/06/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/06/2018	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2018	ND	185	92.5	200	5.77	
DRO >C10-C28*	<10.0	10.0	07/05/2018	ND	210	105	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	07/05/2018	ND					

Surrogate: 1-Chlorooctane 93.7 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Fax To: (575) 397-0397

Received:	07/05/2018	Sampling Date:	06/26/2018
Reported:	07/09/2018	Sampling Type:	Soil
Project Name:	CROCKETT STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 2 @ 2' (H801823-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1700	16.0	07/06/2018	ND	432	108	400	7.69		

Sample ID: SP 2 @ 3' (H801823-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	07/06/2018	ND	432	108	400	7.69	

Sample ID: SP 2 @ 4' (H801823-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	07/06/2018	ND	432	108	400	7.69	

Sample ID: SP 2 @ 5' (H801823-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	07/06/2018	ND	432	108	400	7.69		

Sample ID: SP 2 @ 6' (H801823-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	07/06/2018	ND	432	108	400	7.69	

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

Received:	07/05/2018	Sampling Date:	06/26/2018
Reported:	07/09/2018	Sampling Type:	Soil
Project Name:	CROCKETT STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 2 @ 7' (H801823-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	07/06/2018	ND	432	108	400	7.69		

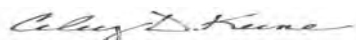
Sample ID: SP 2 @ 8' (H801823-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/06/2018	ND	432	108	400	7.69	

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Received:	07/05/2018	Sampling Date:	06/26/2018
Reported:	07/09/2018	Sampling Type:	Soil
Project Name:	CROCKETT STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 3 @ SURFACE (H801823-19)

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	07/06/2018	ND	1.72	85.8	2.00	1.61		
Toluene*	<0.050	0.050	07/06/2018	ND	1.71	85.7	2.00	1.32		
Ethylbenzene*	<0.050	0.050	07/06/2018	ND	1.70	84.9	2.00	0.619		
Total Xylenes*	<0.150	0.150	07/06/2018	ND	5.31	88.4	6.00	0.420		
Total BTEx	<0.300	0.300	07/06/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	07/06/2018	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2018	ND	185	92.5	200	5.77	
DRO >C10-C28*	35.2	10.0	07/05/2018	ND	210	105	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	07/05/2018	ND					


Surrogate: 1-Chlorooctane 87.6 % 41-142

Surrogate: 1-Chlorooctadecane 99.8 % 37.6-147

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Received:	07/05/2018	Sampling Date:	06/26/2018
Reported:	07/09/2018	Sampling Type:	Soil
Project Name:	CROCKETT STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 3 @ 1' (H801823-20)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/06/2018	ND	1.72	85.8	2.00	1.61		
Toluene*	<0.050	0.050	07/06/2018	ND	1.71	85.7	2.00	1.32		
Ethylbenzene*	<0.050	0.050	07/06/2018	ND	1.70	84.9	2.00	0.619		
Total Xylenes*	<0.150	0.150	07/06/2018	ND	5.31	88.4	6.00	0.420		
Total BTX	<0.300	0.300	07/06/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	07/06/2018	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2018	ND	185	92.5	200	5.77	
DRO >C10-C28*	<10.0	10.0	07/05/2018	ND	210	105	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	07/05/2018	ND					


Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 96.5 % 37.6-147

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

Received:	07/05/2018	Sampling Date:	06/29/2018
Reported:	07/09/2018	Sampling Type:	Soil
Project Name:	CROCKETT STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 3 @ 2' (H801823-21)

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	07/06/2018	ND	432	108	400	7.69		

Sample ID: SP 3 @ 3' (H801823-22)

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	07/06/2018	ND	432	108	400	7.69	

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Fax To: (575) 397-0397

Received:	07/05/2018	Sampling Date:	06/29/2018
Reported:	07/09/2018	Sampling Type:	Soil
Project Name:	CROCKETT STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: NORTH @ SURFACE (H801823-23)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2018	ND	1.72	85.8	2.00	1.61	
Toluene*	<0.050	0.050	07/06/2018	ND	1.71	85.7	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/06/2018	ND	1.70	84.9	2.00	0.619	
Total Xylenes*	<0.150	0.150	07/06/2018	ND	5.31	88.4	6.00	0.420	
Total BTX	<0.300	0.300	07/06/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/06/2018	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2018	ND	185	92.5	200	5.77	
DRO >C10-C28*	<10.0	10.0	07/05/2018	ND	210	105	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	07/05/2018	ND					

Surrogate: 1-Chlorooctane 77.4 % 41-142

Surrogate: 1-Chlorooctadecane 85.6 % 37.6-147

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

Received:	07/05/2018	Sampling Date:	06/29/2018
Reported:	07/09/2018	Sampling Type:	Soil
Project Name:	CROCKETT STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: EAST @ SURFACE (H801823-24)

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	07/06/2018	ND	1.72	85.8	2.00	1.61		
Toluene*	<0.050	0.050	07/06/2018	ND	1.71	85.7	2.00	1.32		
Ethylbenzene*	<0.050	0.050	07/06/2018	ND	1.70	84.9	2.00	0.619		
Total Xylenes*	<0.150	0.150	07/06/2018	ND	5.31	88.4	6.00	0.420		
Total BTEX	<0.300	0.300	07/06/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/06/2018	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2018	ND	185	92.5	200	5.77	
DRO >C10-C28*	<10.0	10.0	07/05/2018	ND	210	105	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	07/05/2018	ND					

Surrogate: 1-Chlorooctane 87.7 % 41-142

Surrogate: 1-Chlorooctadecane 94.7 % 37.6-147

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Fax To: (575) 397-0397

Received:	07/05/2018	Sampling Date:	06/29/2018
Reported:	07/09/2018	Sampling Type:	Soil
Project Name:	CROCKETT STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: WEST @ SURFACE (H801823-25)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2018	ND	1.72	85.8	2.00	1.61	
Toluene*	<0.050	0.050	07/06/2018	ND	1.71	85.7	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/06/2018	ND	1.70	84.9	2.00	0.619	
Total Xylenes*	<0.150	0.150	07/06/2018	ND	5.31	88.4	6.00	0.420	
Total BTX	<0.300	0.300	07/06/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

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	07/06/2018	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2018	ND	185	92.5	200	5.77	
DRO >C10-C28*	<10.0	10.0	07/05/2018	ND	210	105	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	07/05/2018	ND					


Surrogate: 1-Chlorooctane 92.3 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Received:	07/05/2018	Sampling Date:	06/29/2018
Reported:	07/09/2018	Sampling Type:	Soil
Project Name:	CROCKETT STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SOUTH @ SURFACE (H801823-26)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2018	ND	1.72	85.8	2.00	1.61	
Toluene*	<0.050	0.050	07/06/2018	ND	1.71	85.7	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/06/2018	ND	1.70	84.9	2.00	0.619	
Total Xylenes*	<0.150	0.150	07/06/2018	ND	5.31	88.4	6.00	0.420	
Total BTX	<0.300	0.300	07/06/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

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	07/06/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2018	ND	185	92.5	200	5.77	
DRO >C10-C28*	<10.0	10.0	07/05/2018	ND	210	105	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	07/05/2018	ND					

Surrogate: 1-Chlorooctane 83.6 % 41-142

Surrogate: 1-Chlorooctadecane 91.9 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager


Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager


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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 3

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CL</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH EXT</div> </div>																	
Address: P.O. Box 805				Company: COG																					
City: Hobbs		State: NM Zip: 88241		Attn: Becky Haskell																					
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																					
Project #:		Project Owner: COG		City:																					
Project Name: Crockett State #002H				State: Zip:																					
Project Location: Lea County, NM				Phone #:																					
Sampler Name: Jeff Ornelas				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING															
						GROUNDWATER																			
						WASTEWATER																			
						SOIL																			
						OIL																			
						SLUDGE																			
						OTHER :																			
						ACID/BASE:																			
						ICE / COOL																			
						OTHER :																			
										DATE		TIME													
H8D1823				G-1																					
1 SP1 @ SURFACE		G-1																							
2 SP1 @ 1'		G-1																							
3 SP1 @ 2'		G-1																							
4 SP1 @ 3'		G-1																							
5 SP1 @ 4'		G-1																							
6 SP1 @ 5'		G-1																							
7 SP1 @ 6'		G-1																							
8 SP1 @ 7'		G-1																							
9 SP1 @ 8'		G-1																							
10 SP1 @ SURFACE		G-1																							

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Relinquished By:		Date: 6/29/18	Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: 5:00pm			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date: 6/29/18	Received By:		REMARKS:	
		Time: 5:00pm			7/5/18 11:05	
Delivered By: (Circle One) 4.9c			Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other: Corrected 4.85c			Cool Intact		(Initials)	
			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		TO: #15	
					Has some head space.	

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2 of 3

**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																																			
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">Company: <u>COG</u></div> <div style="margin-bottom: 10px;">Attn: <u>Becky Haskell</u></div> <div style="margin-bottom: 10px;">Address:</div> <div style="margin-bottom: 10px;">City:</div> <div style="margin-bottom: 10px;">State: Zip:</div> <div style="margin-bottom: 10px;">Phone #:</div> <div style="margin-bottom: 10px;">Fax #:</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: <u>COG</u>		City:																																							
Project Name: Crockett State #002H				State: Zip:																																							
Project Location: Lea County, NM				Phone #:																																							
Sampler Name: Jeff Ornelas				Fax #:																																							
FOR LAB USE ONLY																																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																															
								GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME															
<u>4801823</u>				<u>G</u>		<u>1</u>																																					
<u>11</u>		SP2 @ 1'		<u>G</u>		<u>1</u>																																					
<u>12</u>		SP2 @ 2'		<u>G</u>		<u>1</u>																																					
<u>13</u>		SP2 @ 3'		<u>G</u>		<u>1</u>																																					
<u>14</u>		SP2 @ 4'		<u>G</u>		<u>1</u>																																					
<u>15</u>		SP2 @ 5'		<u>G</u>		<u>1</u>																																					
<u>16</u>		SP2 @ 6'		<u>G</u>		<u>1</u>																																					
<u>17</u>		SP2 @ 7'		<u>G</u>		<u>1</u>																																					
<u>18</u>		SP2 @ 8'		<u>G</u>		<u>1</u>																																					
<u>19</u>		SP3 @ SURFACE		<u>G</u>		<u>1</u>																																					
<u>20</u>		SP3 @ 1'		<u>G</u>		<u>1</u>																																					

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Relinquished By: <u>Jeff Ornelas</u>		Date: <u>6/29/18</u>		Received By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <u>5:00pm</u>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <u>[Signature]</u>		Date: <u>7/5/18</u>		Received By: <u>[Signature]</u>		REMARKS: <u>7/5/18</u> <u>11:05</u> <u>Has some head space</u>			
		Time: <u>5:00pm</u>							
Delivered By: (Circle One) <u>4.90</u>				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: <u>Corrected 4.85</u>				Cool Intact		(Initials)			
				<input type="checkbox"/> Yes <input type="checkbox"/> No		<u>4.85</u>			
				<input type="checkbox"/> Yes <input type="checkbox"/> No					

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: Jeff Onlog		Date: 4/29/88	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: 5:00 pm		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date: 7-5-78	Received By: Tamara Aldridge	REMARKS:	
		Time: 11:05			
Delivered By: (Circle One)		Sample Condition	CHECKED BY:	Has some head space	
Sampler - UPS - Bus - Other: 4.9°C		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	(Initials)		
Corrected 4.85°C		Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>		
			40-#75		

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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 April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: COG Operating, LLC (OGRID #229137)	Contact: Robert McNeill	
Address: 600 West Illinois Avenue, Midland, TX 79701	Telephone No. 432-683-7443	
Facility Name: Crockett State #002H	Facility Type Wellhead	
Surface Owner: State	Mineral Owner: State	API No. 30-025-41080

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	20	21S	33E	2,310	North	190	East	Lea

Latitude 32.4652519 Longitude -103.5866699 NAD83

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 15 bbl. Produced Water	Volume Recovered: 0.5 bbl. Produced Water
Source of Release: Valve Failure	Date and Hour of Occurrence: May 22, 2018 3:00am	Date and Hour of Discovery: May 22, 2018 3:00am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
<div>RECEIVED By Olivia Yu at 9:24 am, May 31, 2018</div>		

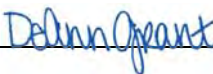
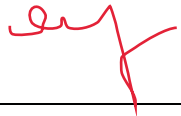
Describe Cause of Problem and Remedial Action Taken.*

The release was caused by the valve on the casing failing. The valve has been replaced.

Describe Area Affected and Cleanup Action Taken.*

The release was on location. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

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

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: DeAnn Grant		Approved by Environmental Specialist: 	
Title: HSE Administrative Assistant	Approval Date: 5/31/2018	Expiration Date:	
E-mail Address: agrant@concho.com	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>	
Date: May 23, 2018	Phone: 432-253-4513		

* Attach Additional Sheets If Necessary

1RP-5075

nOY1815134158

pOY1815135921

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 5/24/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-5075 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 6/30/2018. 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

From: [Hernandez, Christina, EMNRD](#)
To: ["Cliff Brunson"; Yu, Olivia, EMNRD; "Mann, Ryan"](#)
Cc: ["Becky Haskell"; "Dakota Neel"; "Sheldon Hitchcock"; DeAnn Grant; "Ken Swinney"; "Jennifer Gilkey"; "Kathy Purvis"](#)
Subject: RE: COG Crockett State #002H (1RP-5075) - Delineation Workplan
Date: Monday, July 23, 2018 4:11:00 PM
Attachments: [ApprovedDelineation Workplan Crockett State #002H \(5-22-18\) \(002\).pdf](#)

Dear Mr. Brunson:

NMOCD approves of the delineation completed and proposed remediation for 1RP-5075 with one condition: sidewall confirmation samples (at 4 ft. and 2.5 ft. bgs excavation) and bottom confirmation sample (at 2.5 ft. bgs excavation) are required. Additionally, please provide GPS coordinates for all remediation confirmation sample locations. Please be advised, confirmation sample points must not be no more than 50 ft apart and to be tested for BTEX, TPH Extended, and chlorides (sidewalls). Please provide photos for documentation including properly placed liner in the remediation/closure report.

Like NMSLO approval required.

Thanks,
Christina Hernandez
EMNRD-OCD
Environmental Specialist
1625 N. French Drive
Hobbs, NM 88240
575-393-6161 x111
Christina.Hernandez@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Cliff Brunson <cbrunson@bbcinternational.com>
Sent: Wednesday, July 18, 2018 3:20 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; 'Mann, Ryan' <rmann@slo.state.nm.us>
Cc: Hernandez, Christina, EMNRD <Christina.Hernandez@state.nm.us>; 'Becky Haskell' <rhaskell@concho.com>; 'Dakota Neel' <DNeel2@concho.com>; 'Sheldon Hitchcock' <SLHitchcock@concho.com>; DeAnn Grant <agrants@concho.com>; 'Ken Swinney' <kswinney@bbcinternational.com>; 'Jennifer Gilkey' <jgilkey@bbcinternational.com>; 'Kathy Purvis' <kathy@bbcinternational.com>

Subject: COG Crockett State #002H (1RP-5075) - Delineation Workplan

Olivia and Ryan,

Please find the attached Delineation Workplan and remediation proposal for the COG Crockett State #002H (1RP-5075). COG is requesting that you review this plan and is looking forward to the OCD's and SLO's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com



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