



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: cbrunson@bbcinternational.com

APPROVED NMOCD 1RP 4435
By Kristen Lynch at 7:48 am, Nov 10, 2016

COG – WEST PEARL 36 STATE COM #004H (9/8/16)

REMEDIATION PLAN

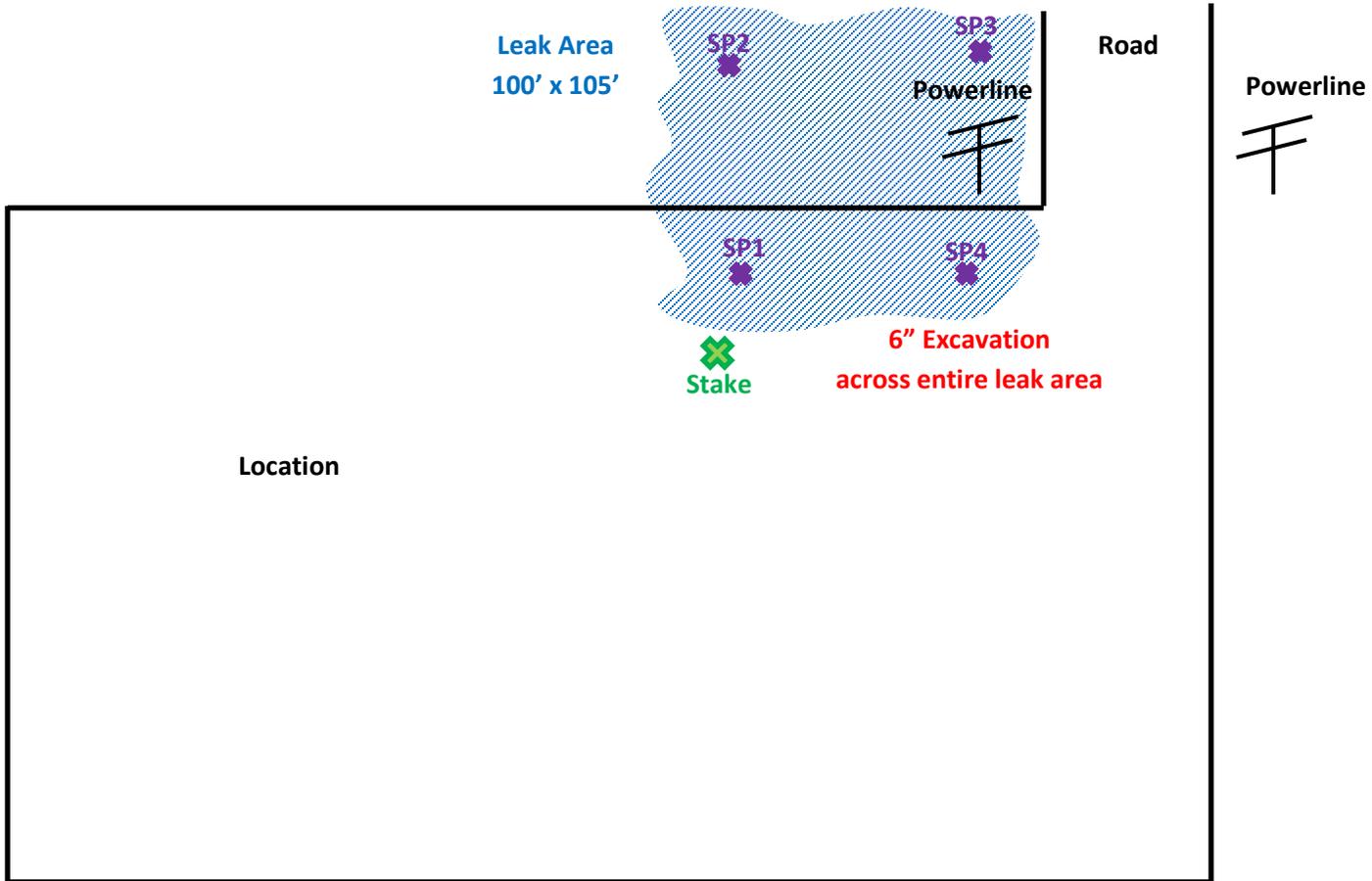
COG will excavate the spill area as depicted on the following site diagram. The entire leak area will be excavated to a depth of 6 inches. The entire site will then be backfilled with clean soil.

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



COG

West Pearl 36 State Com #004H (9/8/16)



U/L O, Section 25, T19S, R34E

Lea County, NM

N 32.62394° W 103.51313°

API# 30-025-42146

BBC International, Inc.	
COG	
West Pearl 36 State Com #004H	
Date: 10/03/2016	DRWG by: K. Purvis
NOT TO SCALE	File: COG 2016



Groundwater Plot

COG West Pearl State Com #004H

County
Lea

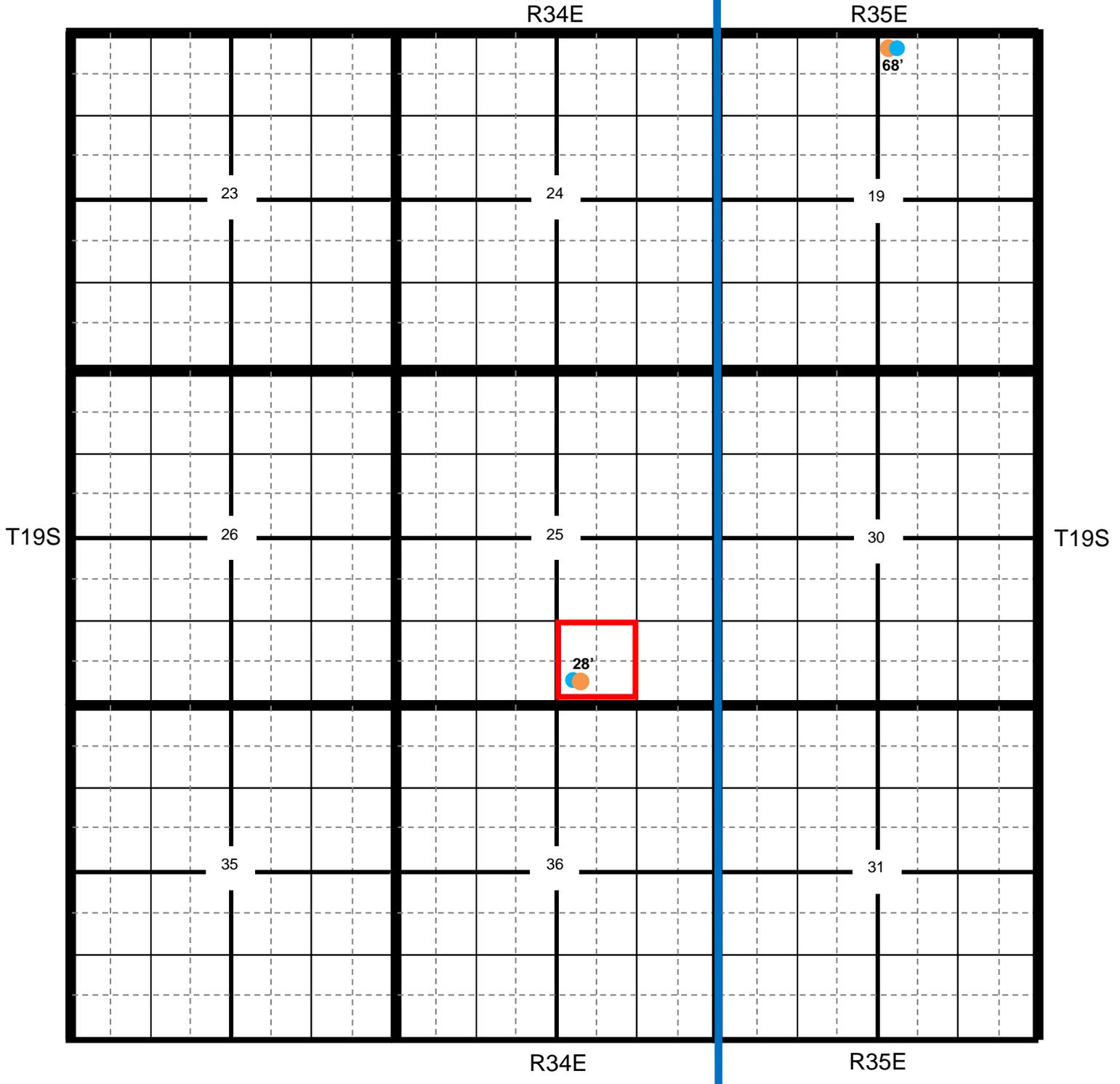
Unit Letter
O

Section
25

Township
19S

Range
34E

Trend Map 75'-100'



📍 Location

● OCD

● USGS

● SEO

● All Databases

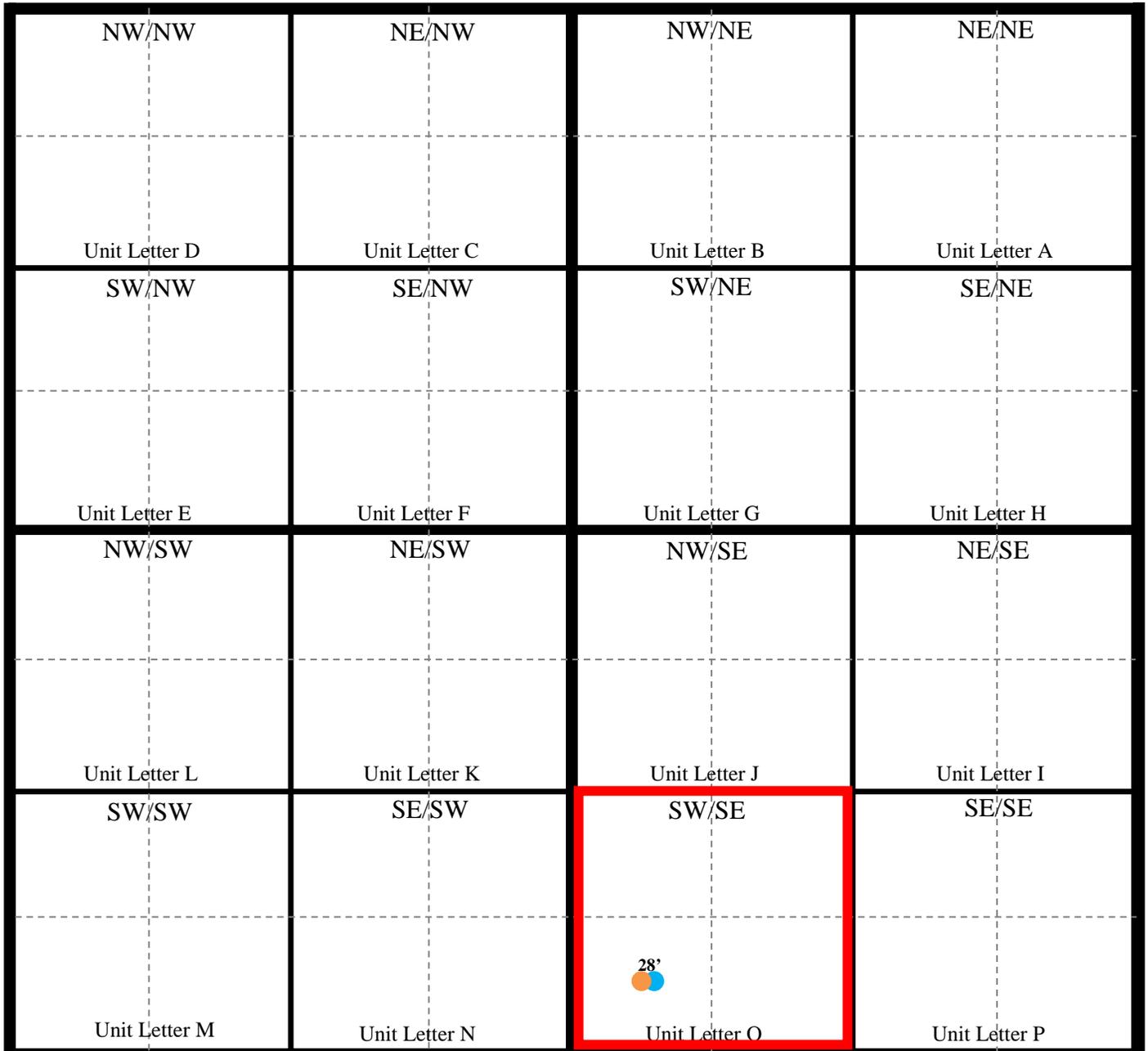
COG West Pearl 36 State Com #004H

County: Lea Unit Letter: O Section: 25 Township: 19S Range: 34E

Trend Map 75'-100'

1

2



3

4

**Laboratory Analytical Results Summary
West Pearl 36 State Com #004H**

		Sample	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	10/4/16	10/4/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.128	<0.050
Ethylbenzene	BTEX 8021B		0.05	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
GRO	TPH 8015M		<100	<10.0
DRO	TPH 8015M		11800	66.8

		Sample	SP2 @ SURFACE	SP2 @ 1'
Analyte	Method	Date	10/4/16	10/4/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.086	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	10/4/16	10/4/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		46.5	<10.0

		Sample	SP4 @ SURFACE	SP4 @ 1'
Analyte	Method	Date	10/4/16	10/4/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.146	<0.050
Ethylbenzene	BTEX 8021B		0.053	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
GRO	TPH 8015M		<50.0	<10.0
DRO	TPH 8015M		35500	53.5



October 11, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: WEST PEARL 36 STATE COM #004H

Enclosed are the results of analyses for samples received by the laboratory on 10/06/16 14:35.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

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:	10/04/2016
Reported:	10/11/2016	Sampling Type:	Soil
Project Name:	WEST PEARL 36 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ SURFACE (H602257-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2016	ND	2.19	109	2.00	0.609	
Toluene*	0.128	0.050	10/11/2016	ND	2.24	112	2.00	1.35	
Ethylbenzene*	0.050	0.050	10/11/2016	ND	2.18	109	2.00	1.08	
Total Xylenes*	<0.150	0.150	10/11/2016	ND	6.58	110	6.00	1.07	
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						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	10/08/2016	ND	185	92.3	200	5.29		
DRO >C10-C28	11800	100	10/08/2016	ND	199	99.4	200	0.107		

Surrogate: 1-Chlorooctane 97.2 % 35-147

Surrogate: 1-Chlorooctadecane 517 % 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:	10/06/2016	Sampling Date:	10/04/2016
Reported:	10/11/2016	Sampling Type:	Soil
Project Name:	WEST PEARL 36 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 1' (H602257-02)

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	10/11/2016	ND	2.19	109	2.00	0.609		
Toluene*	<0.050	0.050	10/11/2016	ND	2.24	112	2.00	1.35		
Ethylbenzene*	<0.050	0.050	10/11/2016	ND	2.18	109	2.00	1.08		
Total Xylenes*	<0.150	0.150	10/11/2016	ND	6.58	110	6.00	1.07		
Total BTEX	<0.300	0.300	10/11/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	66.8	10.0	10/08/2016	ND	199	99.4	200	0.107		

Surrogate: 1-Chlorooctane 89.6 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

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*=Accredited Analyte

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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:	10/06/2016	Sampling Date:	10/04/2016
Reported:	10/11/2016	Sampling Type:	Soil
Project Name:	WEST PEARL 36 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ SURFACE (H602257-03)

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	10/11/2016	ND	2.19	109	2.00	0.609	
Toluene*	0.086	0.050	10/11/2016	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	10/11/2016	ND	2.18	109	2.00	1.08	
Total Xylenes*	<0.150	0.150	10/11/2016	ND	6.58	110	6.00	1.07	
Total BTEX	<0.300	0.300	10/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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 85.0 % 35-147

Surrogate: 1-Chlorooctadecane 90.2 % 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:	10/04/2016
Reported:	10/11/2016	Sampling Type:	Soil
Project Name:	WEST PEARL 36 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ 1' (H602257-04)

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	10/11/2016	ND	2.19	109	2.00	0.609		
Toluene*	<0.050	0.050	10/11/2016	ND	2.24	112	2.00	1.35		
Ethylbenzene*	<0.050	0.050	10/11/2016	ND	2.18	109	2.00	1.08		
Total Xylenes*	<0.150	0.150	10/11/2016	ND	6.58	110	6.00	1.07		
Total BTEX	<0.300	0.300	10/11/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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 92.4 % 35-147

Surrogate: 1-Chlorooctadecane 86.1 % 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:	10/04/2016
Reported:	10/11/2016	Sampling Type:	Soil
Project Name:	WEST PEARL 36 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ SURFACE (H602257-05)

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	10/11/2016	ND	2.19	109	2.00	0.609		
Toluene*	<0.050	0.050	10/11/2016	ND	2.24	112	2.00	1.35		
Ethylbenzene*	<0.050	0.050	10/11/2016	ND	2.18	109	2.00	1.08		
Total Xylenes*	<0.150	0.150	10/11/2016	ND	6.58	110	6.00	1.07		
Total BTEX	<0.300	0.300	10/11/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	46.5	10.0	10/08/2016	ND	199	99.4	200	0.107		

Surrogate: 1-Chlorooctane 90.8 % 35-147

Surrogate: 1-Chlorooctadecane 87.4 % 28-171

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Analytical Results For:

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

Received:	10/06/2016	Sampling Date:	10/04/2016
Reported:	10/11/2016	Sampling Type:	Soil
Project Name:	WEST PEARL 36 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ 1' (H602257-06)

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	10/11/2016	ND	2.19	109	2.00	0.609		
Toluene*	<0.050	0.050	10/11/2016	ND	2.24	112	2.00	1.35		
Ethylbenzene*	<0.050	0.050	10/11/2016	ND	2.18	109	2.00	1.08		
Total Xylenes*	<0.150	0.150	10/11/2016	ND	6.58	110	6.00	1.07		
Total BTEX	<0.300	0.300	10/11/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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 87.4 % 35-147

Surrogate: 1-Chlorooctadecane 92.3 % 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:	10/04/2016
Reported:	10/11/2016	Sampling Type:	Soil
Project Name:	WEST PEARL 36 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 4 @ SURFACE (H602257-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2016	ND	2.19	109	2.00	0.609	
Toluene*	0.146	0.050	10/11/2016	ND	2.24	112	2.00	1.35	
Ethylbenzene*	0.053	0.050	10/11/2016	ND	2.18	109	2.00	1.08	
Total Xylenes*	<0.150	0.150	10/11/2016	ND	6.58	110	6.00	1.07	
Total BTEX	<0.300	0.300	10/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.6-140

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	<50.0	50.0	10/08/2016	ND	185	92.3	200	5.29		
DRO >C10-C28	35500	50.0	10/08/2016	ND	199	99.4	200	0.107		

Surrogate: 1-Chlorooctane 76.2 % 35-147

Surrogate: 1-Chlorooctadecane 5250 % 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:	10/04/2016
Reported:	10/11/2016	Sampling Type:	Soil
Project Name:	WEST PEARL 36 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 4 @ 1' (H602257-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2016	ND	2.19	109	2.00	0.609		
Toluene*	<0.050	0.050	10/11/2016	ND	2.24	112	2.00	1.35		
Ethylbenzene*	<0.050	0.050	10/11/2016	ND	2.18	109	2.00	1.08		
Total Xylenes*	<0.150	0.150	10/11/2016	ND	6.58	110	6.00	1.07		
Total BTEX	<0.300	0.300	10/11/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	53.5	10.0	10/08/2016	ND	199	99.4	200	0.107		

Surrogate: 1-Chlorooctane 85.6 % 35-147

Surrogate: 1-Chlorooctadecane 97.1 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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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



Celey D. Keene, Lab Director/Quality Manager

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company:	COG Operating LLC	Contact:	Robert McNeill
Address:	600 West Illinois Avenue, Midland TX 79701	Telephone No.	432-683-7443
Facility Name:	WEST PEARL 36 STATE COM #004H	Facility Type:	Flare
Surface Owner:	State	Mineral Owner:	API No. 30-025-42146

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	25	19S	34E	250'	South	2180'	East	Lea

Latitude 32.6248387259106

Longitude 103.512415383595

NATURE OF RELEASE

Type of Release:	Oil	Volume of Release:	10bbls	Volume Recovered:	0bbls
Source of Release:	Flare	Date and Hour of Occurrence:	09-08-2016 4:00 pm	Date and Hour of Discovery:	09-08-2016 4:00 pm
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.*

Describe Cause of Problem and Remedial Action Taken.*

This release was caused by dump valve that failed on a flare. Replace faulty dump valves.

Describe Area Affected and Cleanup Action Taken.*

This release occurred due to a flare failure in the pasture. All free fluids were burnt up in the fire. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

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:	Robert Grubbs Jr.	Approved by Environmental Specialist:	
Title:	Senior Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address:	rgrubbs@concho.com	Conditions of Approval:	
Date:	September 9, 2016	Phone:	432-683-7443
		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary