

Closure Report

Site Description

Site Name:	Willow 17 State SWD #001
Company:	COG Operating LLC
Legal Description:	U/L P, Section 17, T25S, R28E
County:	Eddy County, NM
GPS Coordinates:	N 32.12498° W 104.10342°

Release Data

Date of Release:	07/24/2016
Type of Release:	Produced water
Source of Release:	Hose connecting to the load line
Volume of Release:	80 bbls
Volume Recovered:	0 bbls

Remediation Specifications

Remediation Parameters:	Excavate the entire leak site to a depth of 1 foot. Backfill the site with clean soil.	
Remediation Activities:	10/12/2016 to 10/17/2016	
Plan Sent to OCD:	09/23/2016	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	09/28/2016	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

Supporting Documentation

Initial C-141	Signed 07/28/2016
Final C-141	Signed 10/21/2016
Site Diagram	August 2016
Groundwater Plot	50'-100'
TOPO Maps	August 2015
Lab Summary	08/22/2016
Lab Analysis	08/22/2016
Correspondence	Request and approval of remediation plan via email

Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

10/25/2016

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-14
Revised August 8, 201

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:	WILLOW 17 STATE SWD #001	Facility Type:	Tank Battery

Surface Owner:	State	Mineral Owner:	API No.	30-015-41806
----------------	-------	----------------	---------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	17	25S	28E	660'	South	660'	East	Eddy

Latitude 32.1243935 Longitude 104.1029892

NATURE OF RELEASE

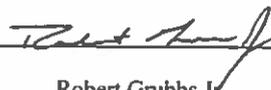
Type of Release:	Produced Water	Volume of Release:	80bbls of Produced Water	Volume Recovered:	0bbls Produced Water
Source of Release:	Hose connecting to the load line	Date and Hour of Occurrence:	07-24-2016 08:00am	Date and Hour of Discovery:	07-24-2016 08:00am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Robert Grubbs Jr.	Date and Hour: 7/25/2016 9:28 AM			
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.*
A truck was unloading when his hose disconnected from the load line. Make sure that hose connect is secure before unloading.

Describe Area Affected and Cleanup Action Taken.*
This release occurred when hose connection failed going to a load line on the pad. A 5X5 area went off in the pasture next to the location. 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:	July 28, 2016	Phone:	432-683-7443
			Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

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. 432-230-0077
Facility Name: Willow 17 State SWD #001	Facility Type: Battery
Surface Owner: State	Mineral Owner:
API No. 30-015-41806	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	17	25S	28E	660	South	660	East	Eddy County, NM

Latitude N 32.12498° Longitude W 104.10342°

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release: 80 bbls	Volume Recovered: 0 bbls
Source of Release: Hose connecting to the load line	Date and Hour of Occurrence 07/24/2016 @ 8:00 am	Date and Hour of Discovery 07/24/2016 @ 8:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher- NMOCD	
By Whom? Robert Grubbs Jr.	Date and Hour: 07/25/2016 @ 9:28 am	
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.*

A truck was unloading when his hose disconnected from the load line. Make sure the hose connect is secure before unloading.

Describe Area Affected and Cleanup Action Taken.*

This release occurred when the hose connection failed going to a load line on the pad. A 5 x 5 area went off in the pasture next to the location. The spill was delineated and a remediation plan was created. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 09/28/2016.

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:	Attached <input type="checkbox"/>
Date: October 21, 2016	Phone: (432) 683-7443	

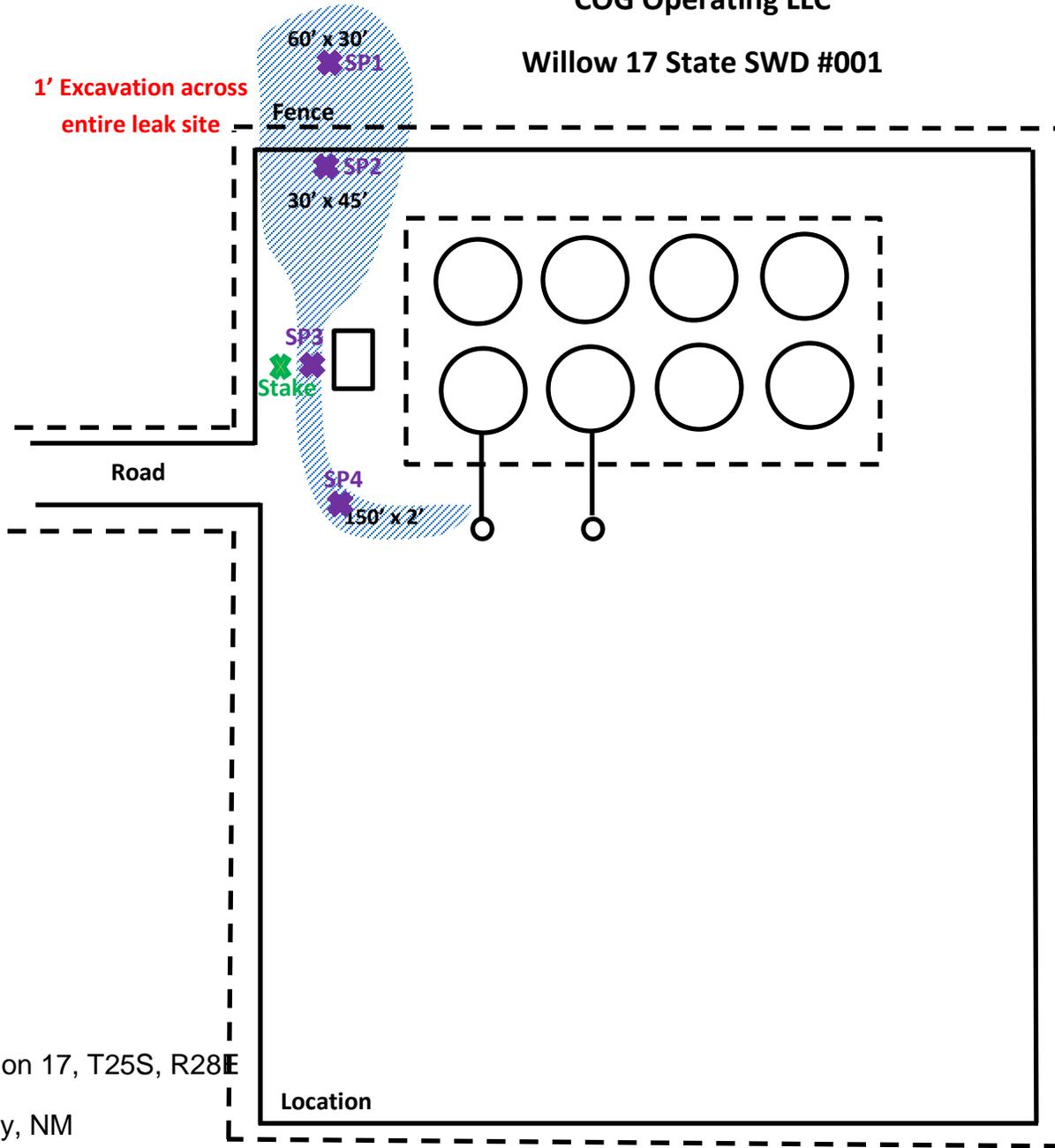
* Attach Additional Sheets If Necessary



COG Operating LLC

Willow 17 State SWD #001

1' Excavation across
entire leak site



U/L P, Section 17, T25S, R28E

Eddy County, NM

N 32.12498° W 104.10342°

API# 30-015-41806

Location

BBC International, Inc.

COG

Willow 17 State SWD #001

Date: 08/08/2016

DRWG by: K. Purvis

NOT TO SCALE

File: COG 2016



Groundwater Plot

COG Willow 17 State SWD #001

County
Eddy

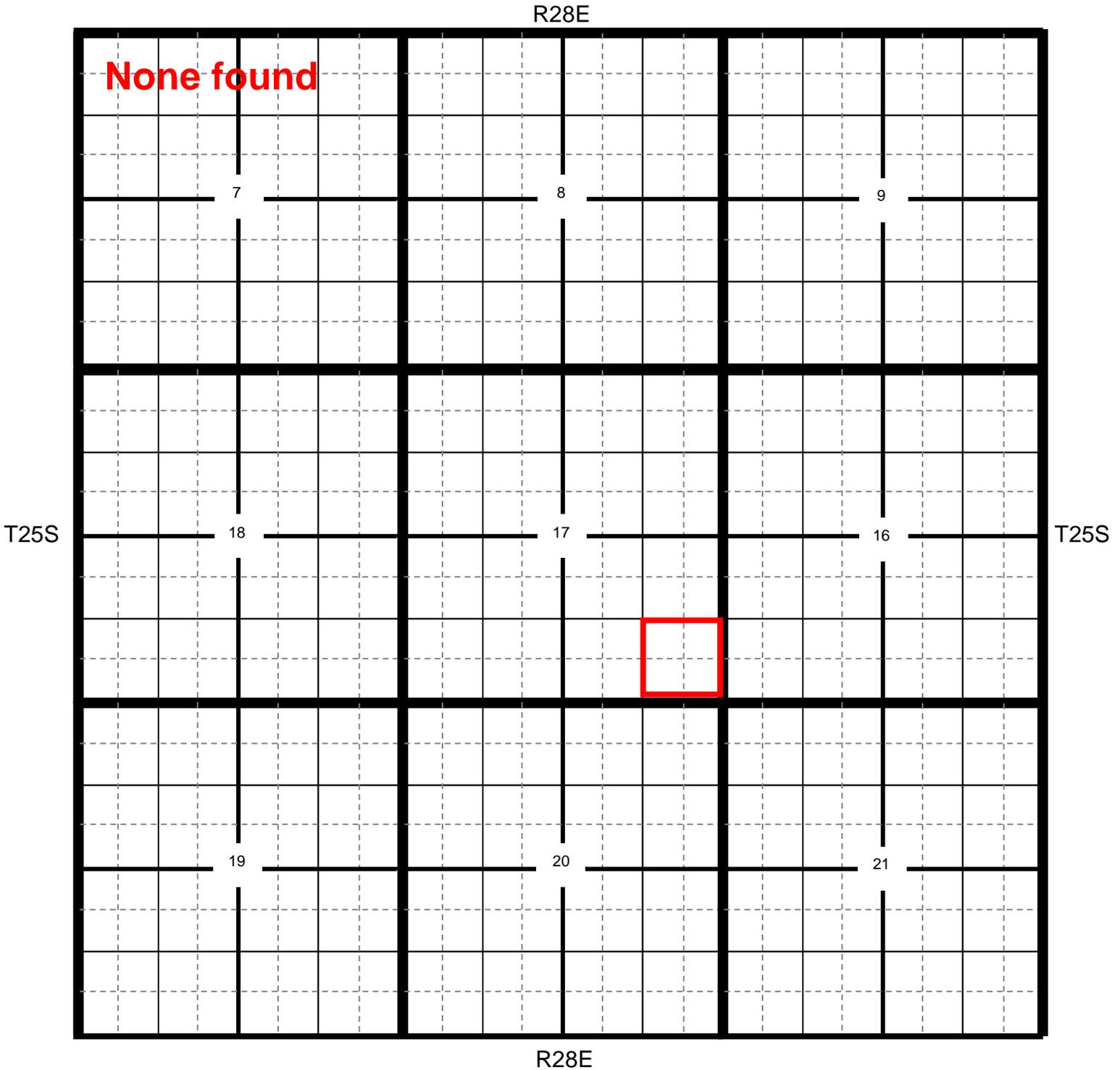
Unit Letter
P

Section
17

Township
T25S

Range
R28E

Trend Map 50'-100'



📍 Location

● OCD

● USGS

● SEO

● All Databases

COG Willow 17 State SWD #001

County Eddy Unit Letter P Section 17 Township 25S Range 28E

Trend Map 50'-100'

1

2

NW/NW None found	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

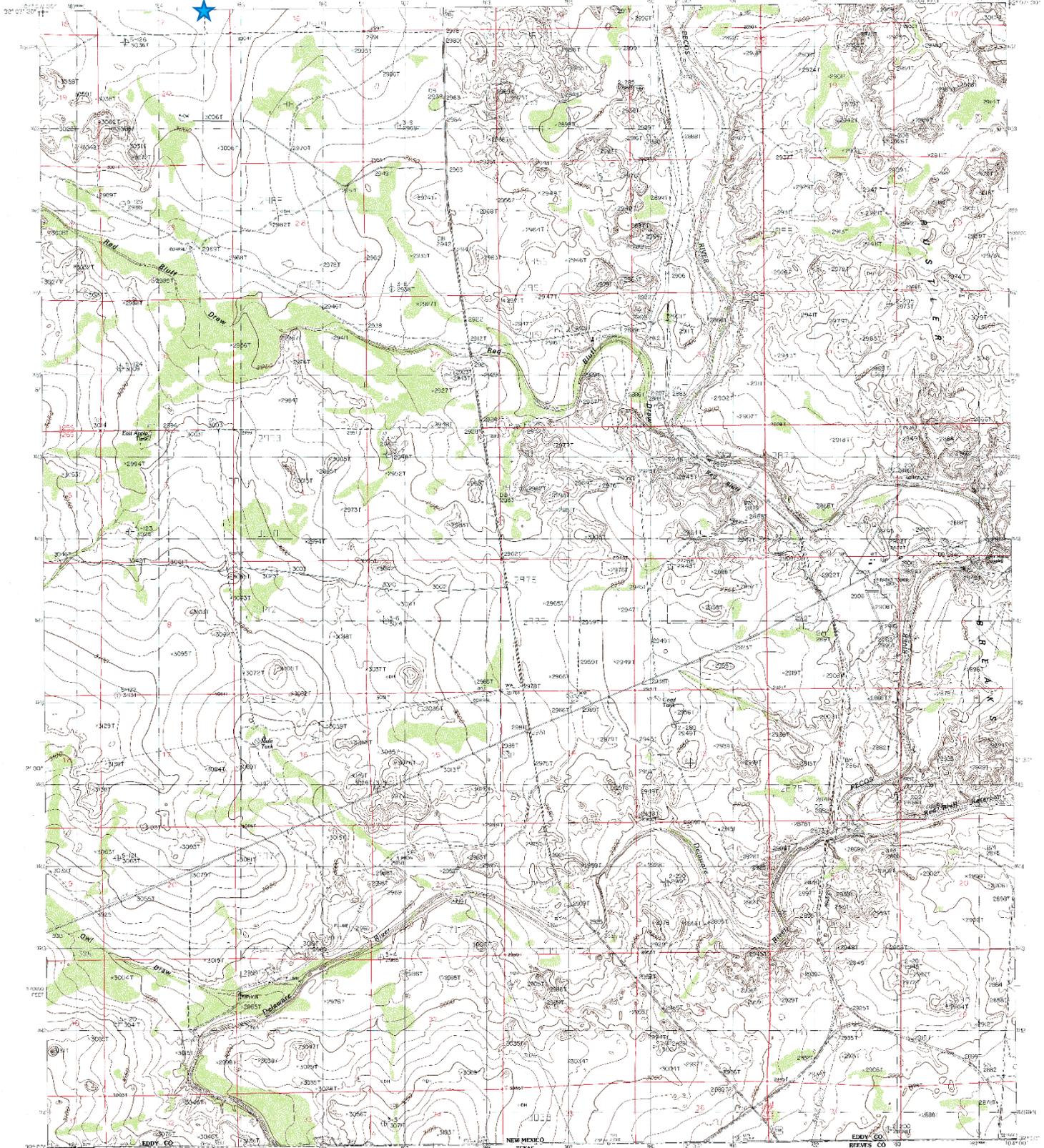
4

COG

Willow 17 State SWD #001

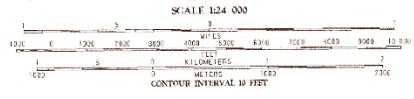
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RED BLUFF QUADRANGLE
NEW MEXICO-EDDY CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY
COPYRIGHT BY THE UNITED STATES GEOLOGICAL SURVEY
COMPILED FROM AERIAL PHOTOGRAPHS TAKEN IN 1958
FIELD CHECKED BY THE UNITED STATES GEOLOGICAL SURVEY
PROJECTION: UTM ZONE 18N
GEOGRAPHIC STATE GRID TICS: NAD 83
UTM GRID DESIGNATION: 18N
MAGNETIC NORTH DECLINATION: 12.5 MINUTES WEST
NATIONAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1985
To place on the preferred North American Datum of 1983,
move the projection lines as shown by dashed corner ticks
(0) across south and 40 meters east.
There may be private landholdings within the boundaries of any
Federal and State Reservations shown on this map.
All marginal data and lettering generated and positioned by
automated type placement procedures.

PROVISIONAL MAP
Produced from original
manuscript drawings. Informa-
tion shown as of date of
field check.



NEW MEXICO

ROAD LEGEND

- Improved Road
- Unimproved Road
- Trail
- Interstate Route
- U.S. Route
- State Route

1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8

RED BLUFF, NEW MEXICO
PROVISIONAL EDITION 1985

EDDY CO. CULBERSON CO. RIVES CO.

THIS MAP COMPLETES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80232
OR RESTON, VIRGINIA 22092

ED04-011024

**Laboratory Analytical Results Summary
Willow 17 State SWD #001**

		Sample	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	8/22/16	8/22/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a
Toluene	BTEX 8021B		<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	n/a
Chloride	SM4500Cl-B		1390	128
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a

		Sample	SP2 @ SURFACE	SP2 @ 1'
Analyte	Method	Date	8/22/16	8/22/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	n/a
Toluene	BTEX 8021B		n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a
Chloride	SM4500Cl-B		2040	128
GRO	TPH 8015M		n/a	n/a
DRO	TPH 8015M		n/a	n/a

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	8/22/16	8/22/16	8/22/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		1840	288	144
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	8/22/16	8/22/16	8/22/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a	n/a
Chloride	SM4500Cl-B		7760	256	256
GRO	TPH 8015M		n/a	n/a	n/a
DRO	TPH 8015M		n/a	n/a	n/a

August 30, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: WILLOW 17 STATE #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 08/24/16 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/24/2016	Sampling Date:	08/22/2016
Reported:	08/30/2016	Sampling Type:	Soil
Project Name:	WILLOW 17 STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	(7-24-16)	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 1 @ SURFACE (H601910-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2016	ND	2.30	115	2.00	2.94	
Toluene*	<0.050	0.050	08/29/2016	ND	2.35	117	2.00	3.10	
Ethylbenzene*	<0.050	0.050	08/29/2016	ND	2.25	113	2.00	3.13	
Total Xylenes*	<0.150	0.150	08/29/2016	ND	6.83	114	6.00	2.99	
Total BTEX	<0.300	0.300	08/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	1390	16.0	08/29/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/25/2016	ND	195	97.5	200	0.460	
DRO >C10-C28	<10.0	10.0	08/25/2016	ND	210	105	200	1.75	

Surrogate: 1-Chlorooctane 87.5 % 35-147
Surrogate: 1-Chlorooctadecane 94.4 % 28-171
Sample ID: SP 1 @ 1' (H601910-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/29/2016	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/24/2016	Sampling Date:	08/22/2016
Reported:	08/30/2016	Sampling Type:	Soil
Project Name:	WILLOW 17 STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	(7-24-16)	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 2 @ SURFACE (H601910-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	08/29/2016	ND	400	100	400	3.92	

Sample ID: SP 2 @ 1' (H601910-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/29/2016	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/24/2016	Sampling Date:	08/22/2016
Reported:	08/30/2016	Sampling Type:	Soil
Project Name:	WILLOW 17 STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	(7-24-16)	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 3 @ SURFACE (H601910-05)

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	08/29/2016	ND	2.30	115	2.00	2.94	
Toluene*	<0.050	0.050	08/29/2016	ND	2.35	117	2.00	3.10	
Ethylbenzene*	<0.050	0.050	08/29/2016	ND	2.25	113	2.00	3.13	
Total Xylenes*	<0.150	0.150	08/29/2016	ND	6.83	114	6.00	2.99	
Total BTEX	<0.300	0.300	08/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	1840	16.0	08/29/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/25/2016	ND	195	97.5	200	0.460	
DRO >C10-C28	<10.0	10.0	08/25/2016	ND	210	105	200	1.75	

Surrogate: 1-Chlorooctane 70.0 % 35-147
Surrogate: 1-Chlorooctadecane 77.2 % 28-171
Sample ID: SP 3 @ 1' (H601910-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/29/2016	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/24/2016	Sampling Date:	08/22/2016
Reported:	08/30/2016	Sampling Type:	Soil
Project Name:	WILLOW 17 STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	(7-24-16)	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 3 @ 2' (H601910-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/29/2016	ND	400	100	400	3.92	

Sample ID: SP 4 @ SURFACE (H601910-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7760	16.0	08/29/2016	ND	400	100	400	3.92	

Sample ID: SP 4 @ 1' (H601910-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/29/2016	ND	400	100	400	3.92	

Sample ID: SP 4 @ 2' (H601910-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/29/2016	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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



Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: Cliff Brunson P.O. #: _____ Company: _____

Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Attn: _____

Phone #: 575-397-6388 Fax #: 575-397-0397 Address: _____

Project #: _____ Project Owner: *Concho* City: _____ State: _____ Zip: _____

Project Name: *W. Hwy 17 State # 54/D* Phone #: _____

Project Location: *NZ Hwy 2* (2-24-11) Phone #: _____

Sampler Name: *PH* Fax #: _____

FOR LAB USE ONLY

Lab I.D. **Sample I.D.**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	CI
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
<i>400910</i>	<i>SP10SYR</i>	<i>(G)</i>	<i>1</i>	<i>X</i>		<i>X</i>					<i>8-22</i>	<i>936</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>SP20SYR</i>	<i>(G)</i>	<i>1</i>	<i>X</i>		<i>X</i>						<i>1006</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>SP30SYR</i>	<i>(G)</i>	<i>1</i>	<i>X</i>		<i>X</i>						<i>1020</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>SP40SYR</i>	<i>(G)</i>	<i>1</i>	<i>X</i>		<i>X</i>						<i>1045</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>SP40SYR</i>	<i>(G)</i>	<i>1</i>	<i>X</i>		<i>X</i>						<i>1100</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>SP40SYR</i>	<i>(G)</i>	<i>1</i>	<i>X</i>		<i>X</i>						<i>1125</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>SP40SYR</i>	<i>(G)</i>	<i>1</i>	<i>X</i>		<i>X</i>						<i>1150</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>SP40SYR</i>	<i>(G)</i>	<i>1</i>	<i>X</i>		<i>X</i>						<i>1200</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>SP40SYR</i>	<i>(G)</i>	<i>1</i>	<i>X</i>		<i>X</i>						<i>130</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>SP40SYR</i>	<i>(G)</i>	<i>1</i>	<i>X</i>		<i>X</i>						<i>150</i>	<i>X</i>	<i>X</i>	<i>X</i>

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

Relinquished By: _____ Date: *8-24-16* Received By: *CH OOS* Phone Result: Yes No Add'l Phone #: _____
 Time: _____

Relinquished By: _____ Date: *8-24-16* Received By: *Spaci Herrera* Fax Result: Yes No Add'l Fax #: _____
 Time: *5:30*

Delivered By: (Circle One) *UPS* Sample Condition: Intact Cool Yes No
 Sampler - UPS - Bus - Other: *-3.50* CHECKED BY: *[Signature]*

Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 #75

From: [Bratcher, Mike, EMNRD](#)
To: [Cliff Brunson](#)
Cc: [Patterson, Heather, EMNRD](#); [Robert Grubbs](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)
Subject: RE: COG - Willow 17 State SWD #001 - Remediation Plan
Date: Wednesday, September 28, 2016 1:50:03 PM

RE: COG Operating * Willow 17 St SWD 1 * **2RP-3812** * DOR: 7/24/16

Cliff,

Your proposal for remediation of the above referenced release is approved. Please note that OCD has record of another release at this site that occurred on 5/27/16. It is assigned **2RP-3721**. Please advise once remedial activities have been scheduled.

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.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Friday, September 23, 2016 11:13 AM
To: Bratcher, Mike, EMNRD
Cc: Patterson, Heather, EMNRD; Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: COG - Willow 17 State SWD #001 - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the COG Willow 17 State SWD #001 release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

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



Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please immediately notify the sender by e-mail or by telephone call to (575) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.







10/17/2016



10/17/2016



10/17/2016



10/17/2016



