

Closure Report

Site Description

Site Name:	Willow A State #002
Company:	COG Operating, LLC
Legal Description:	U/L O, Section 3, T25S, R28E
County:	Eddy County, NM
GPS Coordinates:	N 32.15276° W 104.07477°

Release Data

Date of Release:	08/27/2016
Type of Release:	Oil and produced water
Source of Release:	Stuffing box
Volume of Release:	2 bbls oil, 13 bbls produced water
Volume Recovered:	1 bbl oil, 1 bbl produced water

Remediation Specifications

Remediation Parameters:	Excavate the entire leak to a depth of 2.5 feet. Backfill the site with clean soil. Dispose of excavated soil at R360 Red Bluff facility.	
Remediation Activities:	11/30/2016 to 12/07/2016	
Plan Sent to OCD:	11/04/2016	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	11/10/2016	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 08/30/2016
Final C-141	Signed 01/03/2017
Site Diagram	October 2016
Groundwater Plot	<50'
TOPO Maps	October 2016
Lab Summary	10/06/2016
Lab Analysis	10/06/2016
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.

01/05/2016

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-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

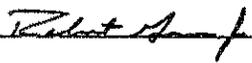
Name of Company:	COG Operating LLC	Contact:	Robert McNeill
Address:	600 West Illinois Avenue, Midland TX 79701	Telephone No.	432-683-7443
Facility Name:	WILLOW A STATE #002	Facility Type:	Well Head
Surface Owner:	State	Mineral Owner:	API No. 30-015-33399

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	03	25S	28E	330'	South	2570'	East	Eddy

Latitude 32.1527252 Longitude 104.074852

NATURE OF RELEASE

Type of Release:	Oil & Produced Water	Volume of Release:	2bbls of Oil & 13bbls of Produced Water	Volume Recovered:	1bbls of Oil & 1bbl of Produced Water
Source of Release:	Stuffing Box	Date and Hour of Occurrence:	08-27-2016 09:30 am	Date and Hour of Discovery:	08-27-2016 09:30 am
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.*					
A stuffing box failed at the wellhead. Replaced the packing in the stuffing box.					
Describe Area Affected and Cleanup Action Taken.*					
This release occurred on location and a 5 X 10 just on the north edge of 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:					
Printed Name:	Robert Grubbs Jr.	OIL CONSERVATION DIVISION			
Title:	Senior Environmental Coordinator	Approved by Environmental Specialist:			
E-mail Address:	rgrubbs@concho.com	Approval Date:	Expiration Date:		
Date:	August 30, 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
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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 A State #002	Facility Type: Well
Surface Owner: State	Mineral Owner:
API No. 30-015-33399	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	3	25S	28E	330	South	2570	East	Eddy County, NM

Latitude N 32.15276° Longitude W 104.07477°

NATURE OF RELEASE

Type of Release: Oil and Produced water	Volume of Release: 2 bbls oil, 13 bbls produced water	Volume Recovered: 1 bbl oil, 1 bbl produced water
Source of Release: Stuffing box	Date and Hour of Occurrence 08/27/2016 @ 9:30 am	Date and Hour of Discovery 08/27/2016 @ 9:30 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input 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.*

The stuffing box at the well head failed causing a leak of 2 bbls of oil and 13 bbls of produced water. A vacuum truck recovered 1 bbl of oil and 1 bbl of produced water and the packing in the stuffing box was replaced.

Describe Area Affected and Cleanup Action Taken.*

This release occurred on location and a small amount off location on the north edge. The site was delineated and a remediation plan was created. Remediation was completed in accordance with the remediation plan approved by Kristen Lynch of NMOCD via email on 11/10/2016.

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.

OIL CONSERVATION DIVISION

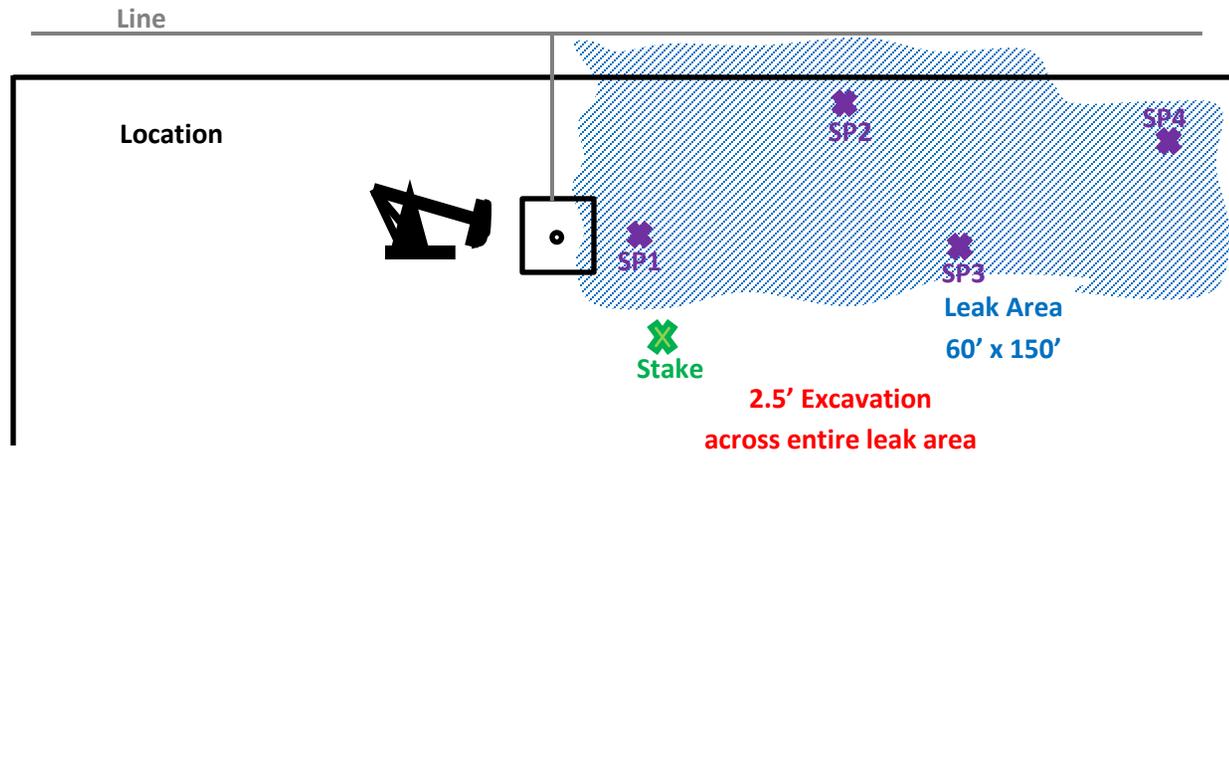
Signature: 	Approved by Environmental Specialist:	
Printed Name: Robert Grubbs Jr	Approval Date:	Expiration Date:
Title: Senior Environmental Coordinator	Conditions of Approval:	
E-mail Address: rgrubbs@concho.com	Attached <input type="checkbox"/>	
Date: January 3, 2017 Phone: (432) 683-7443		

* Attach Additional Sheets If Necessary



COG

Willow A State #002 (8/27/16)



U/L O, Section 3, T25S, R28E

Eddy County, NM

N 32.15276° W 104.07477°

API# 30-015-33399

BBC International, Inc.	
COG	
Willow A State #002	
Date: 10/03/2016	DRWG by: K. Purvis
NOT TO SCALE	File: COG 2016



Groundwater Plot

COG Willow A State #002

County
Eddy

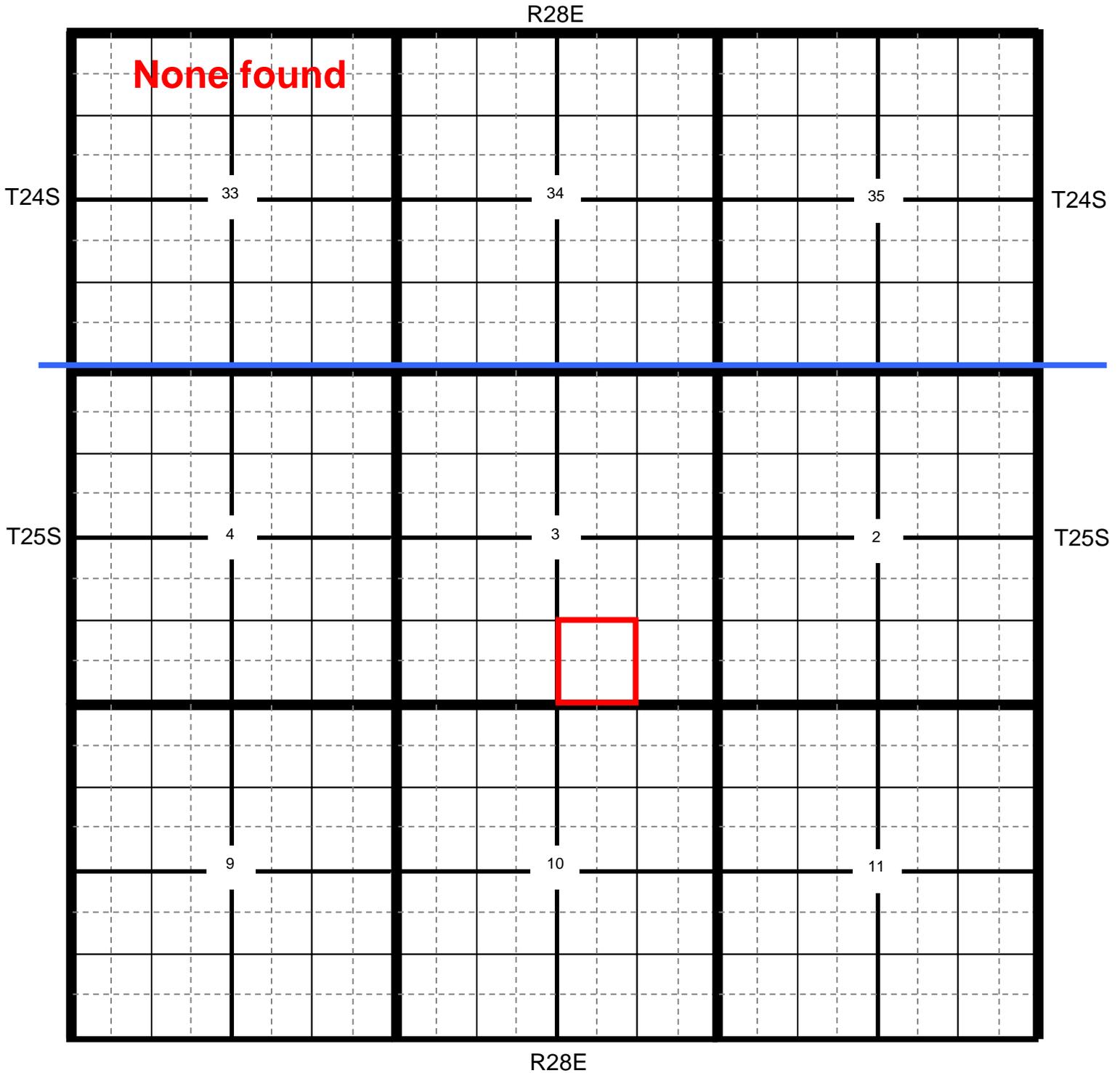
Unit Letter
O

Section
3

Township
25S

Range
28E

Trend Map <50'



📍 Location

● OCD

● USGS

● SEO

● All Databases

COG Willow A State #002

County Eddy Unit Letter O Section 3 Township 25S Range 28E

Trend Map <50'

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

**Laboratory Analytical Results Summary
Willow A State #2**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 4'	SP1 @ 6'	SP1 @ 7'
Analyte	Method	Date	10/6/16	10/6/16	10/6/16	10/6/16	10/6/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	N/A	N/A	N/A
Toluene	BTEX 8021B		<0.050	<0.050	N/A	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	N/A	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	N/A	N/A	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	N/A	N/A	N/A
Chloride	SM4500Cl-B		2920	1460	656	400	208
GRO	TPH 8015M		<10.0	<10.0	N/A	N/A	N/A
DRO	TPH 8015M		<10.0	<10.0	N/A	N/A	N/A

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 4'	SP2 @ 5'
Analyte	Method	Date	10/6/16	10/6/16	10/6/16	10/6/16
			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		7200	3360	192	176
GRO	TPH 8015M		<10.0	<10.0	N/A	N/A
DRO	TPH 8015M		<10.0	55.1	N/A	N/A

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	10/6/16	10/6/16	10/6/16	10/6/16
			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		1460	896	400	208
GRO	TPH 8015M		<10.0	<10.0	N/A	N/A
DRO	TPH 8015M		<10.0	<10.0	N/A	N/A

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	10/6/16	10/6/16	10/6/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	N/A
Toluene	BTEX 8021B		<0.050	<0.050	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	N/A
Chloride	SM4500Cl-B		896	656	208
GRO	TPH 8015M		<10.0	<10.0	N/A
DRO	TPH 8015M		<10.0	<10.0	N/A



October 14, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: WILLOW A STATE #2

Enclosed are the results of analyses for samples received by the laboratory on 10/07/16 11:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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:	10/07/2016	Sampling Date:	10/06/2016
Reported:	10/14/2016	Sampling Type:	Soil
Project Name:	WILLOW A STATE #2	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 1 @ 1' (H602264-01)

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	10/11/2016	ND	416	104	400	0.00	

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

Surrogate: 1-Chlorooctane 84.1 % 35-147
Surrogate: 1-Chlorooctadecane 91.0 % 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:	10/07/2016	Sampling Date:	10/06/2016
Reported:	10/14/2016	Sampling Type:	Soil
Project Name:	WILLOW A STATE #2	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 1 @ 2' (H602264-02)

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

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	1460	16.0	10/11/2016	ND	416	104	400	0.00	

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

Surrogate: 1-Chlorooctane 78.0 % 35-147

Surrogate: 1-Chlorooctadecane 78.4 % 28-171

Sample ID: SP 1 @ 4' (H602264-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/11/2016	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/07/2016	Sampling Date:	10/06/2016
Reported:	10/14/2016	Sampling Type:	Soil
Project Name:	WILLOW A STATE #2	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 1 @ 6' (H602264-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/11/2016	ND	416	104	400	0.00	

Sample ID: SP 1 @ 7' (H602264-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/11/2016	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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 Fax To: (575) 397-0397

Received:	10/07/2016	Sampling Date:	10/06/2016
Reported:	10/14/2016	Sampling Type:	Soil
Project Name:	WILLOW A STATE #2	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 2 @ 1' (H602264-06)

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

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	10/11/2016	ND	416	104	400	0.00	

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

Surrogate: 1-Chlorooctane 96.2 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 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:	10/07/2016	Sampling Date:	10/06/2016
Reported:	10/14/2016	Sampling Type:	Soil
Project Name:	WILLOW A STATE #2	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 2 @ 2' (H602264-07)

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

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	3360	16.0	10/11/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/10/2016	ND	188	94.1	200	3.55		
DRO >C10-C28	55.1	10.0	10/10/2016	ND	214	107	200	4.52		

Surrogate: 1-Chlorooctane 90.3 % 35-147
Surrogate: 1-Chlorooctadecane 99.0 % 28-171
Sample ID: SP 2 @ 4' (H602264-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	10/11/2016	ND	416	104	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/07/2016	Sampling Date:	10/06/2016
Reported:	10/14/2016	Sampling Type:	Soil
Project Name:	WILLOW A STATE #2	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 2 @ 5' (H602264-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/11/2016	ND	400	100	400	0.00	

Sample ID: SP 3 @ 1' (H602264-10)

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

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 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	1460	16.0	10/11/2016	ND	400	100	400	0.00	

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

Surrogate: 1-Chlorooctane 98.5 % 35-147

Surrogate: 1-Chlorooctadecane 98.7 % 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:	10/07/2016	Sampling Date:	10/06/2016
Reported:	10/14/2016	Sampling Type:	Soil
Project Name:	WILLOW A STATE #2	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 3 @ 2' (H602264-11)

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

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	896	16.0	10/11/2016	ND	400	100	400	0.00	

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

Surrogate: 1-Chlorooctane 99.6 % 35-147
Surrogate: 1-Chlorooctadecane 98.9 % 28-171
Sample ID: SP 3 @ 3' (H602264-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/11/2016	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/07/2016	Sampling Date:	10/06/2016
Reported:	10/14/2016	Sampling Type:	Soil
Project Name:	WILLOW A STATE #2	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 3 @ 4' (H602264-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/11/2016	ND	400	100	400	0.00	

Sample ID: SP 4 @ 1' (H602264-14)

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

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	896	16.0	10/11/2016	ND	400	100	400	0.00	

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

Surrogate: 1-Chlorooctane 95.1 % 35-147

Surrogate: 1-Chlorooctadecane 98.0 % 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:	10/07/2016	Sampling Date:	10/06/2016
Reported:	10/14/2016	Sampling Type:	Soil
Project Name:	WILLOW A STATE #2	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 4 @ 2' (H602264-15)

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

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	656	16.0	10/11/2016	ND	400	100	400	0.00		

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

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

Sample ID: SP 4 @ 3' (H602264-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/11/2016	ND	400	100	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report





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.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sampler Name:

P.O. #:

Company:

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

BILL TO

ANALYSIS REQUEST

FOR LAB USE ONLY

Project Name: *W. Hwy A State #2*

Project Location: *W. Hwy A State #2*

Sampler Name: *V.D.*

State: NM Zip: 88241

Fax #: 575-397-0397

City: Hobbs

Address: P.O. Box 805

Phone #: 575-397-6388

Project #: *10-6*

Project Name: *W. Hwy A State #2*

Project Location: *W. Hwy A State #2*

Sampler Name: *V.D.*

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	BTEX	TPH	Cl-
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
<i>1002244</i>	<i>Sp1e1</i>	<i>G</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>10-6</i>	<i>10:34</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>2</i>	<i>4</i>	<i>G</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>10-6</i>	<i>10:44</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>3</i>	<i>6</i>	<i>G</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>10-6</i>	<i>11:20</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>4</i>	<i>4</i>	<i>G</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>10-6</i>	<i>11:40</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>5</i>	<i>6</i>	<i>G</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>10-6</i>	<i>12:00</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>6</i>	<i>4</i>	<i>G</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>10-6</i>	<i>11:11</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>7</i>	<i>4</i>	<i>G</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>10-6</i>	<i>12:00</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>8</i>	<i>4</i>	<i>G</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>10-6</i>	<i>11:33</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>9</i>	<i>4</i>	<i>G</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>10-6</i>	<i>11:42</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>10</i>	<i>Sp3e1</i>	<i>G</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>10-6</i>	<i>11:55</i>	<i>X</i>	<i>X</i>	<i>X</i>	

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Relinquished By: *Cliff Brunson*

Received By: *Spedi Anderson*

Date: *10-7-16*

Time: *11:00*

Date: *11:00*

Time: *1:30*

Delivered By: (Circle One) *UPS*

Sampler - UPS - Bus - Other: *1.30c*

Sample Condition: Cool Intact Yes No

CHECKED BY: *[Signature]*

REMARKS: *#75*



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**

Project Manager: Cliff Brunson P.O. #:

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

Phone #: 575-397-6388 Fax #: 575-397-0397 Attn:

Project #: Project Owner: *Project Owner: Louche*

Project Location: *W. Hwy A State # 2* City: State: Zip:

Sampler Name: *1.00* Phone #: Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX						PRESRV	SAMPLING	DATE	TIME	BT	TPT	CK
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
<i>H022104</i>	<i>SP302</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>106</i>	<i>200</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>11</i>	<i>SP303</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>215</i>	<i>222</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>12</i>	<i>SP41</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>233</i>	<i>250</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>13</i>	<i>SP42</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>250</i>	<i>300</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>14</i>	<i>SP43</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						
<i>15</i>	<i>SP44</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						
<i>16</i>	<i>SP45</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						

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Relinquished By: *[Signature]* Date: *8-7-16* Time: *11:00*

Received By: *[Signature]* Date: *8-7-16* Time: *1:30*

Delivered By: (Circle One) UPS Bus Other: *1:30*

Sample Condition: Cool Intact Yes No

CHECKED BY: *[Signature]* Phone Result: Yes No Add'l Phone #: *#75*

REMARKS:

From: Bratcher, Mike, EMNRD
To: [Cliff Brunson](#)
Cc: [Patterson, Heather, EMNRD](#); [Robert Grubbs](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#); [Weaver, Crystal, EMNRD](#)
Subject: RE: COG - Willow A State #002 - Remediation Plan
Date: Thursday, November 10, 2016 9:25:27 AM

RE: COG * Willow A St 2 * **2RP-3855** * DOR: 8/27/16

Cliff,

Your proposal for remediation of the above referenced release is approved. 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, November 04, 2016 3:26 PM
To: Bratcher, Mike, EMNRD
Cc: Patterson, Heather, EMNRD; Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: COG - Willow A State #002 - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the COG Willow A State #002 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
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