

Closure Report

APPROVED

REVIEWED

By Kristen Lynch at 9:30 am, Oct 05, 2016

Site Description

Site Name:	Sopapilla State #001H
Company:	COG Operating LLC
Legal Description:	U/L M, Section 2, T23S, R33E
County:	Lea County, NM
GPS Coordinates:	N 32.32763° W 103.55012°

Release Data

Date of Release:	11/06/2015 and 02/03/2016
Type of Release:	Oil
Source of Release:	Dump valve and Closed valve
Volume of Release:	11 bbls and 20 bbls
Volume Recovered:	5 bbls and 19 bbls

Remediation Specifications

Remediation Parameters:	The spill areas around S1 & S2 from the 11/6/15 spill will be excavated to a depth of 6 inches to 1 foot. The area around S3 for the 11/6/15 spill will be excavated to a depth of 1.5 feet. The area around S1 for the 2/3/16 spill will be surface scraped.	
Remediation Activities:	09/20/2016 to 09/26/2016	
Plan Sent to OCD:	08/05/2016	Email from Cliff Brunson to Jamie Keyes
OCD Approval of Plan:	08/09/2016	Email from Jamie Keyes to Cliff Brunson
Plan Sent to SLO:	08/05/2016	Email from Cliff Brunson to Amber Groves
SLO Approval of Plan:	08/18/2016	Email from Amber Groves to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 11/13/2015 and 02/15/2016
Final C-141	Signed 09/28/2016
Site Diagram	June 2016
Groundwater Plot	375'
TOPO Maps	June 2016
Lab Summary	01/18/2016 and 02/05/2016
Lab Analysis	01/18/2016 and 02/05/2016
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.

09/28/2016

/2015 District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: SOPAPILLA STATE #001H	Facility Type: Battery

Surface Owner: State	Mineral Owner:	API No. 30-025-40733
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LOCATION OF RELEASE

Unit Letter M	Section 2	Township 23S	Range 33E	Feet from the 190'	North/South Line South	Feet from the 380	East/West Line West	County Lea
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Latitude 32.3270264 Longitude -103.5504532

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 11 bbls	Volume Recovered: 5 bbls
Source of Release: Dump valve	Date and Hour of Occurrence: 11/6/2015 10:00 pm	Date and Hour of Discovery: 11/6/2015 10:00 pm
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.*

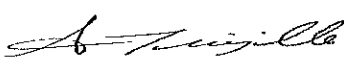
Describe Cause of Problem and Remedial Action Taken.*

This release was caused by an oil dump on the KO not working properly causing the oil to be sent to the flare. A vacuum truck was dispatched to recover the standing fluid.

Describe Area Affected and Cleanup Action Taken.*

This release impacted the pasture near the battery. 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: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Amanda Trujillo Davis	Approved by Environmental Specialist:		
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: atrujillo@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: November 13, 2015 Phone: 575-748-6940			

* Attach Additional Sheets If Necessary

2015 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

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Oil Conservation Division
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OPERATOR

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Name of Company: COG Operating LLC	Contact: Robert McNeill	
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077	
Facility Name: SOPAPILLA STATE #001H	Facility Type: Battery	
Surface Owner: State	Mineral Owner:	API No. 30-025-40733

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	2	23S	33E	190'	South	380	West	Lea

Latitude 32.3270264 Longitude -103.5504532

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 20 bbls	Volume Recovered: 19 bbls
Source of Release: Closed Valve	Date and Hour of Occurrence: 2/3/2016 7:00 pm	Date and Hour of Discovery: 2/3/2016 7:00 pm
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.*

E pilots and inlet valves were being serviced. During the process the supply gas to heater was closed and was never reopened. As heater loss pressure fluid eventually went over the top and out the flare. A vacuum truck was dispatched to recover standing fluid.

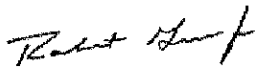
Describe Area Affected and Cleanup Action Taken.*

This release occurred primarily at the flare within the flare containment and impacted the pasture nearby. 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.

OIL CONSERVATION DIVISION

Signature:



Approved by Environmental Specialist:

Printed Name: Robert Grubbs

Title: Senior Environmental Coordinator

Approval Date:

Expiration Date:

E-mail Address: rgrubbs@concho.com

Conditions of Approval:

Attached ☐

Date: February 15, 2016

Phone: 432-230-0077

* Attach Additional Sheets If Necessary

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OPERATOR

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Name of Company: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland, TX 79701	Telephone No. 432-230-0077
Facility Name: Sopapilla State #001H	Facility Type: Battery

Surface Owner: State	Mineral Owner:	API No. 30-025-40733
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	2	23S	33E	190	South	380	West	Lea County, NM

Latitude N 32.32804° Longitude W 103.55015°

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 11 bbls	Volume Recovered: 5 bbls
Source of Release: Dump valve	Date and Hour of Occurrence 11/06/2015 @ 10:00 pm	Date and Hour of Discovery 11/06/2015 @ 10:00 pm
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.	

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Describe Cause of Problem and Remedial Action Taken.*

This release was caused by an oil dump on the KO not working properly causing the oil to be sent to the flare. A vacuum truck was dispatched to recover all free-standing fluids.

Describe Area Affected and Cleanup Action Taken.*

This release impacted the pasture near the battery. The site was delineated and a remediation plan was developed. The remediation plan was approved by Jamie Keyes of NMOCD via email on 08/09/2016 and approved by Amber Groves of the SLO via email on 08/18/2016. Remediation was completed in accordance with the approved plan.

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Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Robert Grubbs		Approved by Environmental Specialist 	
Title: Senior Environmental Coordinator		Approval Date: 10/5/2016	Expiration Date: N/A
E-mail Address: rgrubbs@concho.com		Conditions of Approval: N/A	
Date: September 28, 2016 Phone: (432) 683-7443		Attached <input type="checkbox"/> 1RP 3981	

* Attach Additional Sheets If Necessary

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Facility Name: Sopapilla State #001H	Facility Type: Battery	
Surface Owner: State	Mineral Owner:	API No. 30-025-40733

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M	2	23S	33E	190	South	380	West	Lea County, NM

Latitude N 32.32804° Longitude W 103.55015°

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 20 bbls	Volume Recovered: 19 bbls
Source of Release: Closed valve	Date and Hour of Occurrence 02/03/2016 @ 7:00 pm	Date and Hour of Discovery 02/03/2016 @ 7:00 pm
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:	
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OIL CONSERVATION DIVISION

Signature: 

Printed Name: Robert Grubbs

Title: Senior Environmental Coordinator

E-mail Address: rgrubbs@concho.com

Date: September 28, 2016 Phone: (432) 683-7443

Approved by Environmental Specialist:

Approval Date:

Expiration Date:

Conditions of Approval:

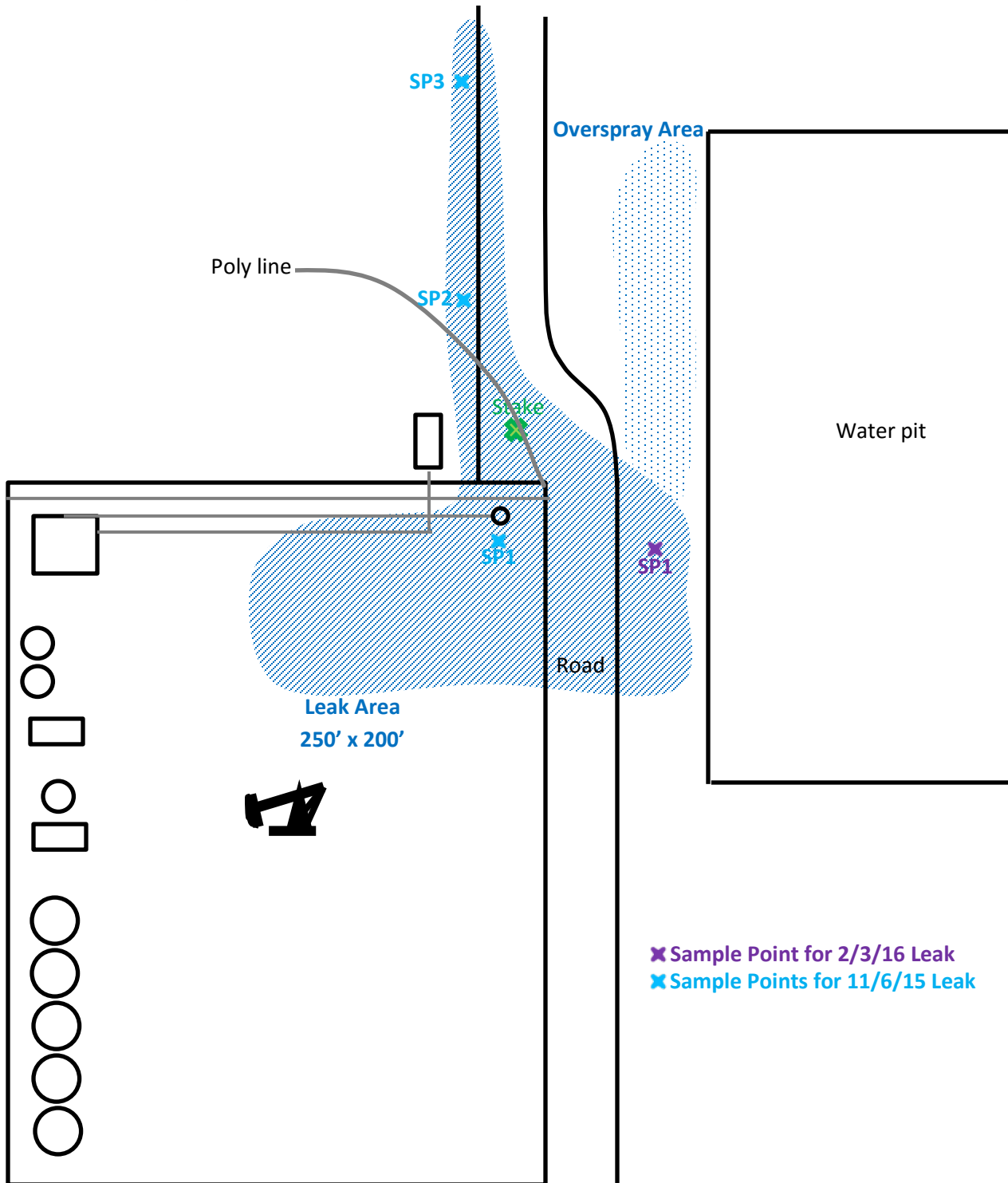
Attached ☐

* Attach Additional Sheets If Necessary



Concho

Sopapilla State #1H Battery (11/6/15 and 2/3/16)



U/L M, Section 2, T23S, R33E

Lea County, NM

N 32.32763° W 103.55012°

API#30-025-40733

BBC International, Inc.

Concho

Sopapilla State #1H Battery

Date: 06/02/2016

DRWG by: K. Purvis

NOT TO SCALE

File: COG 2016



Groundwater Plot

Concho Sopapilla State #1H Battery

County
Lea

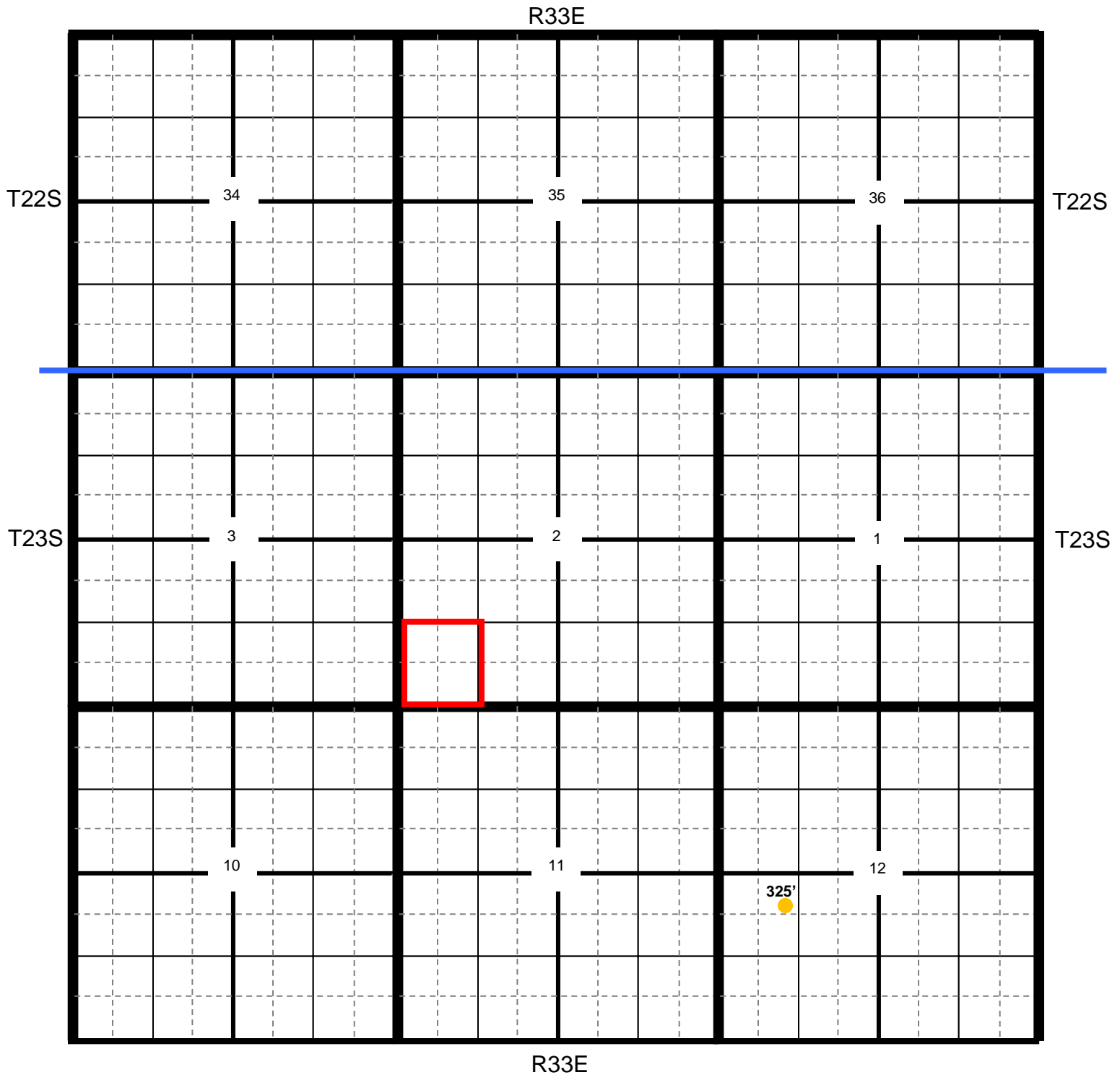
Unit Letter
M

Section
2

Township
23S

Range
33E

Trend Map 375'



★ Location

● OCD

● USGS

● SEO

● All Databases

Concho Sopapilla State #1H Battery

County Lea **Unit Letter** M **Section** 2 **Township** 23S **Range** 33E

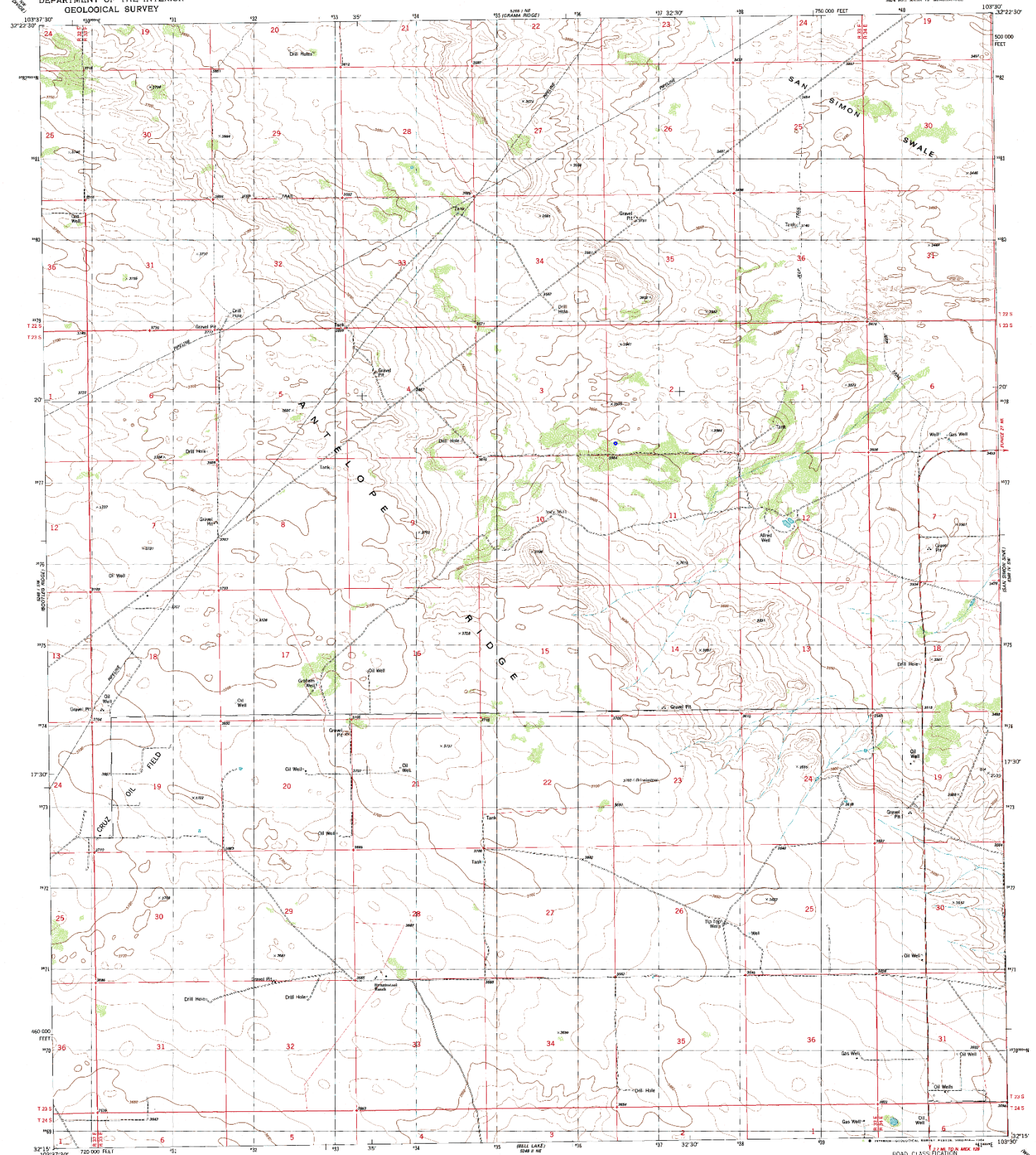
Trend Map 375'

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	

Sopapilla State #1H Battery

TIP TOP WELLS QUADRANGLE
NEW MEXICO-LEA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SHEET NO. 10000

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Mapped, edited, and published by the Geological Survey

Topography by photogrammetric methods from aerial photographs taken 1977. Field checked 1978. Map edited 1984

1927 North American Datum
To place on the predicted North American Datum 1
move the projection lines 9 meters south and
45 meters east as shown by dashed corner ticks.
Fine red dashed lines indicate selected fence lines.

SCALE 1:24 000

10000 0 10000 20000 30000 40000 50000 60000 70000 FEET

1 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET

NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

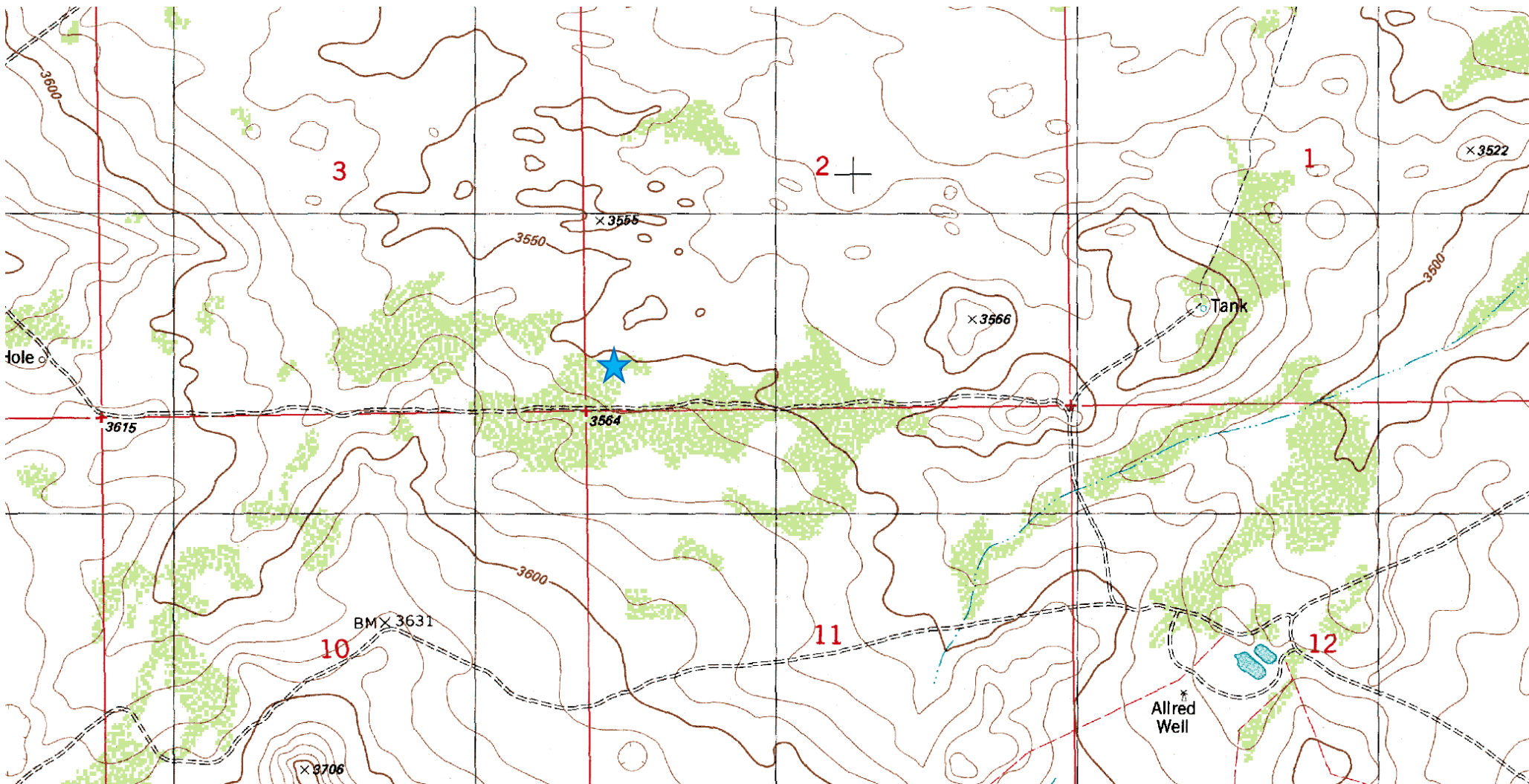
Primary highway, hard surface	Light-duty road, hard or improved surface
Secondary highway, hard surface	Unimproved road
Interstate Route	U.S. Route
	State Route

TIP TOP WELLS, N. MEX.

1984
DMA 5249 | 9K-9ER179 9991

Concho

Sopapilla State #1H Battery



Laboratory Analytical Results Summary
Sopapilla State 1H Battery - 11-6-15

		Sample	S1 @ Surface	SP1 @ 1'	S1 @ 2'	S1 @ 3'
Analyte	Method	Date	1/18/16	1/18/16	1/18/16	1/18/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		7.32	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		57.1	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		21.7	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		81.9	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		168	<0.300	<0.300	<0.300
GRO	TPH 8015M		4450	<10.0	<10.0	<10.0
DRO	TPH 8015M		9440	<10.0	<10.0	<10.0

		Sample	S2 @ Surface	SP2 @ 1'	S2 @ 2'	S2 @ 3'
Analyte	Method	Date	1/18/16	1/18/16	1/18/16	1/18/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.094	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.183	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.878	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		1.15	<0.300	<0.300	<0.300
GRO	TPH 8015M		131	<10.0	<10.0	<10.0
DRO	TPH 8015M		1340	<10.0	<10.0	<10.0

		Sample	S3 @ Surface	SP3 @ 1'	S3 @ 2'	S3 @ 3'
Analyte	Method	Date	1/18/16	1/18/16	1/18/16	1/18/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<1.00	3.17	<0.050	<0.050
Toluene	BTEX 8021B		11.9	38	<0.050	0.173
Ethylbenzene	BTEX 8021B		10.5	16.1	<0.050	<0.050
Total Xylenes	BTEX 8021B		40.8	59.4	<0.150	<0.150
Total BTEX	BTEX 8021B		63.2	117	<0.300	<0.300
GRO	TPH 8015M		2020	3810	<10.0	<10.0
DRO	TPH 8015M		5210	7760	<10.0	<10.0

**Laboratory Analytical Results Summary
Sopapilla State 1H Battery**

		Sample	S1 @ Surface	SP1 @ 1'
Analyte	Method	Date	2/5/16	2/5/16
			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
Chloride	SM4500Cl-B		464	576
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		353	<10.0

January 25, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: SOPAPILLA ST #1 H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/20/16 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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,



Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 01/20/2016
 Reported: 01/25/2016
 Project Name: SOPAPILLA ST #1 H BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/18/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1 - SURFACE (H600133-01)

BTEX 8021B	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.32	2.00	01/22/2016	ND	1.71	85.6	2.00	6.03	
Toluene*	57.1	2.00	01/22/2016	ND	1.83	91.6	2.00	5.89	
Ethylbenzene*	21.7	2.00	01/22/2016	ND	1.70	85.2	2.00	5.40	
Total Xylenes*	81.9	6.00	01/22/2016	ND	5.26	87.7	6.00	5.81	
Total BTEX	168	12.0	01/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 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	4450	50.0	01/21/2016	ND	186	92.9	200	7.25	
DRO >C10-C28	9440	50.0	01/21/2016	ND	189	94.3	200	4.86	

Surrogate: 1-Chlorooctane 179 % 35-147

Surrogate: 1-Chlorooctadecane 177 % 28-171

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:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 01/20/2016
Reported: 01/25/2016
Project Name: SOPAPILLA ST #1 H BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/18/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 1' (H600133-02)

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	01/22/2016	ND	1.71	85.6	2.00	6.03	
Toluene*	<0.050	0.050	01/22/2016	ND	1.83	91.6	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/22/2016	ND	1.70	85.2	2.00	5.40	
Total Xylenes*	<0.150	0.150	01/22/2016	ND	5.26	87.7	6.00	5.81	
Total BTEX	<0.300	0.300	01/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 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	01/21/2016	ND	186	92.9	200	7.25	
DRO >C10-C28	<10.0	10.0	01/21/2016	ND	189	94.3	200	4.86	

Surrogate: 1-Chlorooctane 85.1 % 35-147

Surrogate: 1-Chlorooctadecane 84.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 01/20/2016
 Reported: 01/25/2016
 Project Name: SOPAPILLA ST #1 H BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/18/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1 - 2' (H600133-03)

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	01/22/2016	ND	1.71	85.6	2.00	6.03	
Toluene*	<0.050	0.050	01/22/2016	ND	1.83	91.6	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/22/2016	ND	1.70	85.2	2.00	5.40	
Total Xylenes*	<0.150	0.150	01/22/2016	ND	5.26	87.7	6.00	5.81	
Total BTEX	<0.300	0.300	01/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 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	01/21/2016	ND	186	92.9	200	7.25	
DRO >C10-C28	<10.0	10.0	01/21/2016	ND	189	94.3	200	4.86	

Surrogate: 1-Chlorooctane 74.7 % 35-147

Surrogate: 1-Chlorooctadecane 75.6 % 28-171

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Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 01/20/2016
Reported: 01/25/2016
Project Name: SOPAPILLA ST #1 H BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/18/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 3' (H600133-04)

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	01/22/2016	ND	1.71	85.6	2.00	6.03	
Toluene*	<0.050	0.050	01/22/2016	ND	1.83	91.6	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/22/2016	ND	1.70	85.2	2.00	5.40	
Total Xylenes*	<0.150	0.150	01/22/2016	ND	5.26	87.7	6.00	5.81	
Total BTEX	<0.300	0.300	01/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	01/21/2016	ND	186	92.9	200	7.25	
DRO >C10-C28	<10.0	10.0	01/21/2016	ND	189	94.3	200	4.86	

Surrogate: 1-Chlorooctane 85.2 % 35-147

Surrogate: 1-Chlorooctadecane 83.4 % 28-171

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Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 01/20/2016
Reported: 01/25/2016
Project Name: SOPAPILLA ST #1 H BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/18/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2 - SURFACE (H600133-05)

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	01/22/2016	ND	1.71	85.6	2.00	6.03	
Toluene*	0.094	0.050	01/22/2016	ND	1.83	91.6	2.00	5.89	
Ethylbenzene*	0.183	0.050	01/22/2016	ND	1.70	85.2	2.00	5.40	
Total Xylenes*	0.878	0.150	01/22/2016	ND	5.26	87.7	6.00	5.81	
Total BTEX	1.15	0.300	01/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 120 % 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	131	10.0	01/21/2016	ND	186	92.9	200	7.25	
DRO >C10-C28	1340	10.0	01/21/2016	ND	189	94.3	200	4.86	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 93.1 % 28-171

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Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 01/20/2016
Reported: 01/25/2016
Project Name: SOPAPILLA ST #1 H BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/18/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2 - 1' (H600133-06)

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	01/22/2016	ND	1.71	85.6	2.00	6.03	
Toluene*	<0.050	0.050	01/22/2016	ND	1.83	91.6	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/22/2016	ND	1.70	85.2	2.00	5.40	
Total Xylenes*	<0.150	0.150	01/22/2016	ND	5.26	87.7	6.00	5.81	
Total BTEX	<0.300	0.300	01/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	01/21/2016	ND	186	92.9	200	7.25	
DRO >C10-C28	<10.0	10.0	01/21/2016	ND	189	94.3	200	4.86	

Surrogate: 1-Chlorooctane 76.9 % 35-147

Surrogate: 1-Chlorooctadecane 79.1 % 28-171

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 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 01/20/2016
 Reported: 01/25/2016
 Project Name: SOPAPILLA ST #1 H BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/18/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S2 - 2' (H600133-07)

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	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	<0.050	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	<0.300	0.300	01/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 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	01/21/2016	ND	186	92.9	200	7.25	
DRO >C10-C28	<10.0	10.0	01/21/2016	ND	189	94.3	200	4.86	

Surrogate: 1-Chlorooctane 79.5 % 35-147

Surrogate: 1-Chlorooctadecane 80.0 % 28-171

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Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 01/20/2016
Reported: 01/25/2016
Project Name: SOPAPILLA ST #1 H BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/18/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2 - 3' (H600133-08)

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	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	<0.050	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	<0.300	0.300	01/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 99.8 % 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	01/21/2016	ND	186	92.9	200	7.25	
DRO >C10-C28	<10.0	10.0	01/21/2016	ND	189	94.3	200	4.86	

Surrogate: 1-Chlorooctane 81.4 % 35-147

Surrogate: 1-Chlorooctadecane 80.9 % 28-171

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Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 01/20/2016
 Reported: 01/25/2016
 Project Name: SOPAPILLA ST #1 H BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/18/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3 - SURFACE (H600133-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	11.9	1.00	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	10.5	1.00	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	40.8	3.00	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	63.2	6.00	01/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 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	2020	50.0	01/22/2016	ND	199	99.5	200	1.09	
DRO >C10-C28	5210	50.0	01/22/2016	ND	202	101	200	1.53	

Surrogate: 1-Chlorooctane 133 % 35-147

Surrogate: 1-Chlorooctadecane 125 % 28-171

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Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 01/20/2016
Reported: 01/25/2016
Project Name: SOPAPILLA ST #1 H BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/18/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3 - 1' (H600133-10)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.17	2.00	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	38.0	2.00	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	16.1	2.00	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	59.4	6.00	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	117	12.0	01/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 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	3810	50.0	01/22/2016	ND	199	99.5	200	1.09		
DRO >C10-C28	7760	50.0	01/22/2016	ND	202	101	200	1.53		

Surrogate: 1-Chlorooctane 161 % 35-147

Surrogate: 1-Chlorooctadecane 157 % 28-171

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Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 01/20/2016
Reported: 01/25/2016
Project Name: SOPAPILLA ST #1 H BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/18/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3 - 2' (H600133-11)

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	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	<0.050	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	<0.300	0.300	01/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 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	01/22/2016	ND	199	99.5	200	1.09	
DRO >C10-C28	<10.0	10.0	01/22/2016	ND	202	101	200	1.53	

Surrogate: 1-Chlorooctane 69.8 % 35-147

Surrogate: 1-Chlorooctadecane 71.8 % 28-171

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Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 01/20/2016
Reported: 01/25/2016
Project Name: SOPAPILLA ST #1 H BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/18/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3 - 3' (H600133-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	0.173	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	<0.300	0.300	01/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 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	01/22/2016	ND	199	99.5	200	1.09	
DRO >C10-C28	<10.0	10.0	01/22/2016	ND	202	101	200	1.53	

Surrogate: 1-Chlorooctane 69.5 % 35-147

Surrogate: 1-Chlorooctadecane 72.1 % 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.
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



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: COG Operating LLC

Project Manager: Dakota Neel

Address: 2208 West Main

City: Artesia

Phone #: (575) 748-6930

Project #:

Project Name: Sopapilla St #1H Battery

Project Location:

Sampler Name: Dakota Neel

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

S1- Surface

S1-1'

S1-2'

S1-3'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

MATRIX

PRESERV

SAMPLING

BILL TO

P.O. #:

Company: COG Operating LLC

Attn:

Robert McNeill

Address:

600 W Illinois

City:

Midland

State: TX

Zip: 79701

Phone #:

(432) 221-0388

Fax #:

ANALYSIS REQUEST

BTEX

TPH

Chloride

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Relinquished By:

Date: 1-20-16

Time: 2:00

Relinquished By:

Date:

Received By:

Time:

Received By:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

CHECKED BY:

Cool Intact

(Initials)

Yes Yes

No No

No No

cd

REMARKS:

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

Yes No

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101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: COG Operating LLC

Attn: Robert McNeill

Address: 600 W Illinois

City: Midland

State: TX Zip: 79701

Phone #: (432) 221-0388

Fax #:

Company Name: COG Operating LLC

Project Manager: Dakota Neel

Address: 2208 West Main

City: Artesia

Phone #: (575) 748-6930

State: NM Zip: 88210

Fax #:

Project #: Project Owner:

Project Name: Sopapilla St #1H Battery

Project Location:

Sampler Name: Dakota Neel

MATRIX

PRESERV

SAMPLING

Lab I.D.

Sample I.D.

S2- Surface

S2-1'

S2-2'

S2-3'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

BTEX

TPH

Chloride

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Relinquished By:

Date:

Time:

Received By:

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date:

Time:

Received By:

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

CHECKED BY: (Initials)

Cool

Intact

Yes

Yes

No

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No

5. Please fax written changes to 575-393-2476



(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 17 of 17

February 23, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: SOPAPILLA ST #1 H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/17/16 10:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 02/17/2016
Reported: 02/23/2016
Project Name: SOPAPILLA ST #1 H BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-SURFACE (H600368-01)

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	02/19/2016	ND	2.04	102	2.00	0.658	
Toluene*	<0.050	0.050	02/19/2016	ND	2.01	101	2.00	0.555	
Ethylbenzene*	<0.050	0.050	02/19/2016	ND	1.82	91.1	2.00	0.118	
Total Xylenes*	<0.150	0.150	02/19/2016	ND	5.64	94.0	6.00	0.224	
Total BTEX	<0.300	0.300	02/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/19/2016	ND	416	104	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	02/19/2016	ND	198	99.1	200	5.85	
DRO >C10-C28	353	10.0	02/19/2016	ND	216	108	200	12.2	

Surrogate: 1-Chlorooctane 96.8 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 02/17/2016
 Reported: 02/23/2016
 Project Name: SOPAPILLA ST #1 H BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/05/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1-1' (H600368-02)

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	02/19/2016	ND	2.04	102	2.00	0.658	
Toluene*	<0.050	0.050	02/19/2016	ND	2.01	101	2.00	0.555	
Ethylbenzene*	<0.050	0.050	02/19/2016	ND	1.82	91.1	2.00	0.118	
Total Xylenes*	<0.150	0.150	02/19/2016	ND	5.64	94.0	6.00	0.224	
Total BTEX	<0.300	0.300	02/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	02/19/2016	ND	416	104	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	02/19/2016	ND	198	99.1	200	5.85	
DRO >C10-C28	<10.0	10.0	02/19/2016	ND	216	108	200	12.2	

Surrogate: 1-Chlorooctane 106 % 35-147

Surrogate: 1-Chlorooctadecane 117 % 28-171

Cardinal Laboratories

*=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

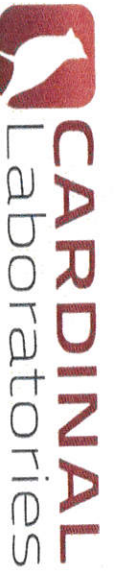
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: COG Operating LLC		P.O. #:		BILL TO																																									
Project Manager: Dakota Neel		Company: COG Operating LLC		ANALYSIS REQUEST																																									
Address: 2208 West Main		Attn: Robert McNeill																																											
City: Artesia	State: NM	Zip: 88210	Address: 600 W Illinois																																										
Phone #: (575) 748-6930	Fax #:		City: Midland																																										
Project #:	Project Owner:		State: TX	Zip: 79701																																									
Project Location: Sopapilla State 1H Battery	Phone #: (432) 221-0388		Fax #:																																										
Sampler Name: Dakota Neel																																													
FOR LAB USE ONLY																																													
Lab I.D.		Sample I.D.																																											
H100368		S1-Surface																																											
2		S1-1'																																											
				(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		BTX		TPH		Chloride											
												X		X												2/5/16		10:00 AM		X		X		X											
												X														2/5/16		10:00 AM																	

From: [Keyes, Jamie, EMNRD](#)
To: [Cliff Brunson](#)
Cc: [Robert Grubbs](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Amber Groves](#); [Kathy Purvis](#)
Subject: RE: Concho - Sopapilla State #1 - Remediation Plan
Date: Tuesday, August 9, 2016 12:51:34 PM

Good afternoon,

The work plan is approved.

Thank you,

Jamie

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Friday, August 05, 2016 5:01 PM
To: Keyes, Jamie, EMNRD; Amber Groves
Cc: Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Concho - Sopapilla State #1 - Remediation Plan

Jamie and Amber,

I have attached the remediation packet that we used in our discussion of the remediation plan for the Concho Sopapilla State #1 leak site. You will find the details of the remediation plan on the first page of the packet. Both agencies have given their verbal approval of this plan and I am requesting that you reply via e-mail with your 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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From: [Groves, Amber](#)
To: [Keyes, Jamie, EMNRD](#); [Cliff Brunson](#)
Cc: [Robert Grubbs](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)
Subject: RE: Concho - Sopapilla State #1 - Remediation Plan
Date: Thursday, August 18, 2016 3:20:29 PM
Attachments: [image002.png](#)
[image001.png](#)

Good Afternoon,

NMSLO is in concurrence with NMOCD.

Thank you,

Amber Groves

Remediation Specialist

Field Operations Division

(575)392-3697

(575)263-3209 cell

New Mexico State Land Office

2827 N. Dal Paso Suite 117

Hobbs, NM 88260

.....
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From: Keyes, Jamie, EMNRD [mailto:Jamie.Keyes@state.nm.us]
Sent: Tuesday, August 09, 2016 12:52 PM
To: Cliff Brunson <cbrunson@bbcinternational.com>
Cc: Robert Grubbs <RGrubbs@concho.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Groves, Amber <agroves@slo.state.nm.us>; Kathy Purvis <kathy@bbcinternational.com>
Subject: RE: Concho - Sopapilla State #1 - Remediation Plan

Good afternoon,

The work plan is approved.

Thank you,

Jamie

From: Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Friday, August 05, 2016 5:01 PM
To: Keyes, Jamie, EMNRD; Amber Groves
Cc: Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Concho - Sopapilla State #1 - Remediation Plan

Jamie and Amber,

I have attached the remediation packet that we used in our discussion of the remediation plan for the Concho Sopapilla State #1 leak site. You will find the details of the remediation plan on the first page of the packet. Both agencies have given their verbal approval of this plan and I am requesting that you reply via e-mail with your 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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