

Closure Report

NMOCD approves
1RP-4521 for closure.

Site Description

Site Name:	Treasure Island Federal 1H Battery
Company:	COG Operating, LLC
Legal Description:	U/L P, Section 23, T24S, R32E
County:	Lea County, NM
GPS Coordinates:	N 32.19581° W 103.63860°

Release Data

Date of Release:	11/13/16
Type of Release:	Oil
Source of Release:	FWKO
Volume of Release:	10 bbls
Volume Recovered:	9 bbls

Remediation Specifications

Remediation Parameters:	Excavate the area around SP1 to a depth of 2.5 feet. Obtain confirmation bottom and sidewall samples at 2.5 ft. Excavate the area around SP2, SP3, SP4, and SP5 to a depth of 6 inches. Backfill the site with clean soil.	
Remediation Activities:	05/18/2017 to 05/24/2017	
Plan Sent to OCD:	03/23/2017	Email from Cliff Brunson to Olivia Yu
OCD Approval of Plan:	04/12/2017	Email from Olivia Yu to Cliff Brunson
Plan Sent to BLM:	03/23/2017	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	04/24/2017	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 11/15/2016
Final C-141	Signed 06/05/2017
Site Diagram	January 2017
Groundwater Plot	75'-100'
TOPO Maps	January 2017
Lab Summary	01/17/2017 and 05/23/2017
Lab Analysis	01/17/2017 and 05/23/2017
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, BBC International Inc.

06/08/2017

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.	432-683-7443
Facility Name:	Treasure Island Federal IH Battery	Facility Type:	Tank Battery
Surface Owner:	Federal	Mineral Owner:	API No. 30-025-41776

LOCATION OF RELEASE

Unit Letter P	Section 23	Township 24S	Range 32E	Feet from the 190	North/South Line South	Feet from the 380	East/West Line East	County Lea
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Latitude Longitude

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 10 bbls	Volume Recovered: 9 bbls
Source of Release: FWKO	Date and Hour of Occurrence: 11/13/2016 9:00 am	Date and Hour of Discovery: 11/13/2016 9:00am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Switch on FWKO was not working properly causing up upset. Repaired the switch on the FWKO.		
Describe Area Affected and Cleanup Action Taken.* The release occurred within the flare firewall on location and over sprayed onto the nearby pasture. Free standing fluids were removed via vacuum truck and a backhoe was utilized to scrape up impacted soil. Concho will have the spill site evaluated for any possible impact from the release and will present remediation work plan to the NMOCD for approval prior to any significant remediation activities.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: <i>Rebecca Haskell</i>	OIL CONSERVATION DIVISION	
Printed Name: Rebecca Haskell	Approved by Environmental Specialist:	
Title: Senior HSE Coordinator	Approval Date:	Expiration Date:
E-mail Address: rhaskell@concho.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: November 15, 2016	Phone: 432-683-7443	

* Attach Additional Sheets If Necessary

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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. 432-683-7443	
Facility Name: Treasure Island Federal 1H Battery	Facility Type: Tank battery	
Surface Owner: Federal	Mineral Owner:	API No. 30-025-41776

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	23	24S	32E	190	South	380	East	Lea County, NM

Latitude N 32.19581° Longitude W 103.63860°

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 10 bbls	Volume Recovered: 9 bbls
Source of Release: FWKO	Date and Hour of Occurrence 11/13/2016 @9:00 am	Date and Hour of Discovery 11/13/2016 @ 9:00 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.*		
<div>APPROVED By Olivia Yu at 7:51 am, Jan 04, 2018</div>		

Describe Cause of Problem and Remedial Action Taken.*

Switch on FWKO was not working properly causing upset. Repaired the switch on FWKO.

Describe Area Affected and Cleanup Action Taken.*

The release occurred within the flare firewall on location and over sprayed onto the nearby pasture. Free standing fluids were removed via vacuum truck and a backhoe was utilized to scrape up impacted soil. The site was delineated and a remediation plan was agreed upon. Remediation was completed in accordance with the remediation plan approved by Olivia Yu of NMOCD via email on 04/12/2017 and approved by Shelly Tucker of the BLM via email on 04/24/2017.

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: <i>Rebecca Haskell</i>		OIL CONSERVATION DIVISION	
Printed Name: Rebecca Haskell		Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Senior HSE Coordinator		Approval Date: 1/4/2018	Expiration Date: xx/xx/xxxx
E-mail Address: rhaskell@concho.com		Conditions of Approval:	
Date: June 5, 2017 Phone: (432) 683-7443		Attached <input type="checkbox"/>	









* Attach Additional Sheets If Necessary

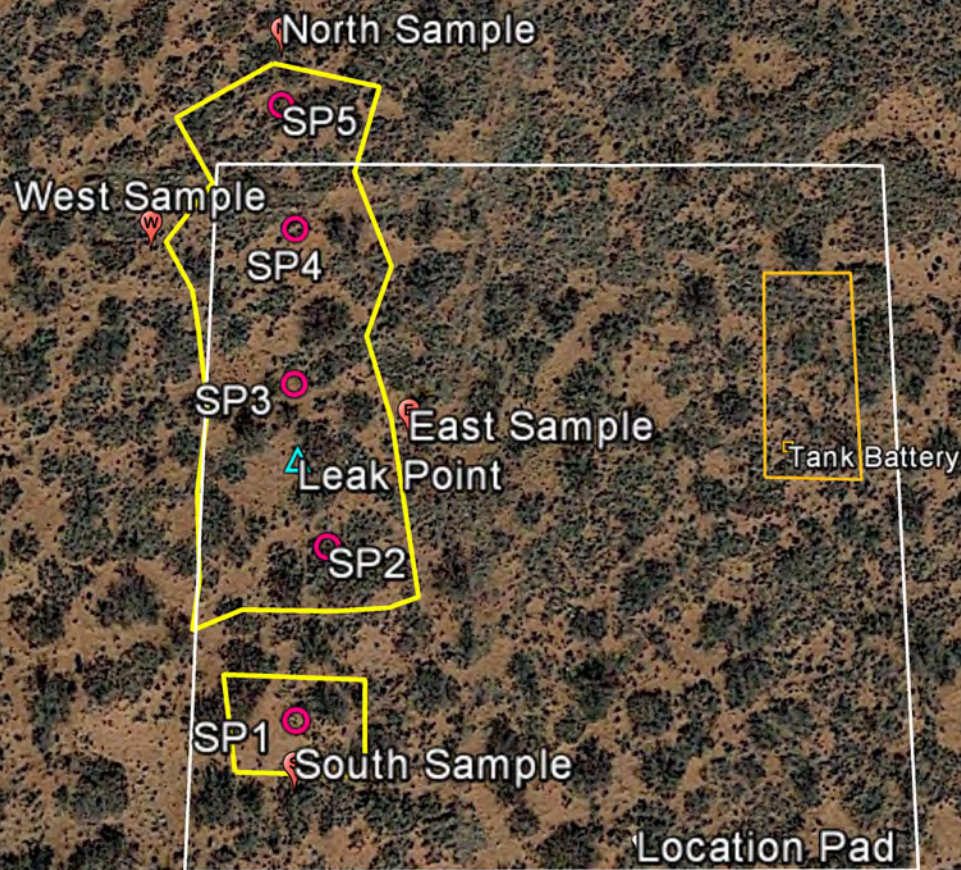
1RP-4521

Treasure Island Fed #1H Battery

Leak Date: 11/13/2016

Legend

-  East Sample
-  Leak Point
-  Location Pad
-  North Sample
-  Sample points, Hand Auger
-  South Sample
-  Tank Battery
-  West Sample



COG, Treasure Island Fed #1H Battery

Samples, Hand Auger

SP1, GPS point: N 32.19600° W-103.63861°

SP2, GPS point: N 32.19621° W-103.63857°

SP3, GPS point: N 32.19640° W-103.63863°

SP4, GPS point: N 32.19660° W-103.63863°

SP5, GPS point: N 32.19675° W-103.63866°

Samples, Hand Auger

North Sample, GPS point: N 32.19682° W-103.63866°

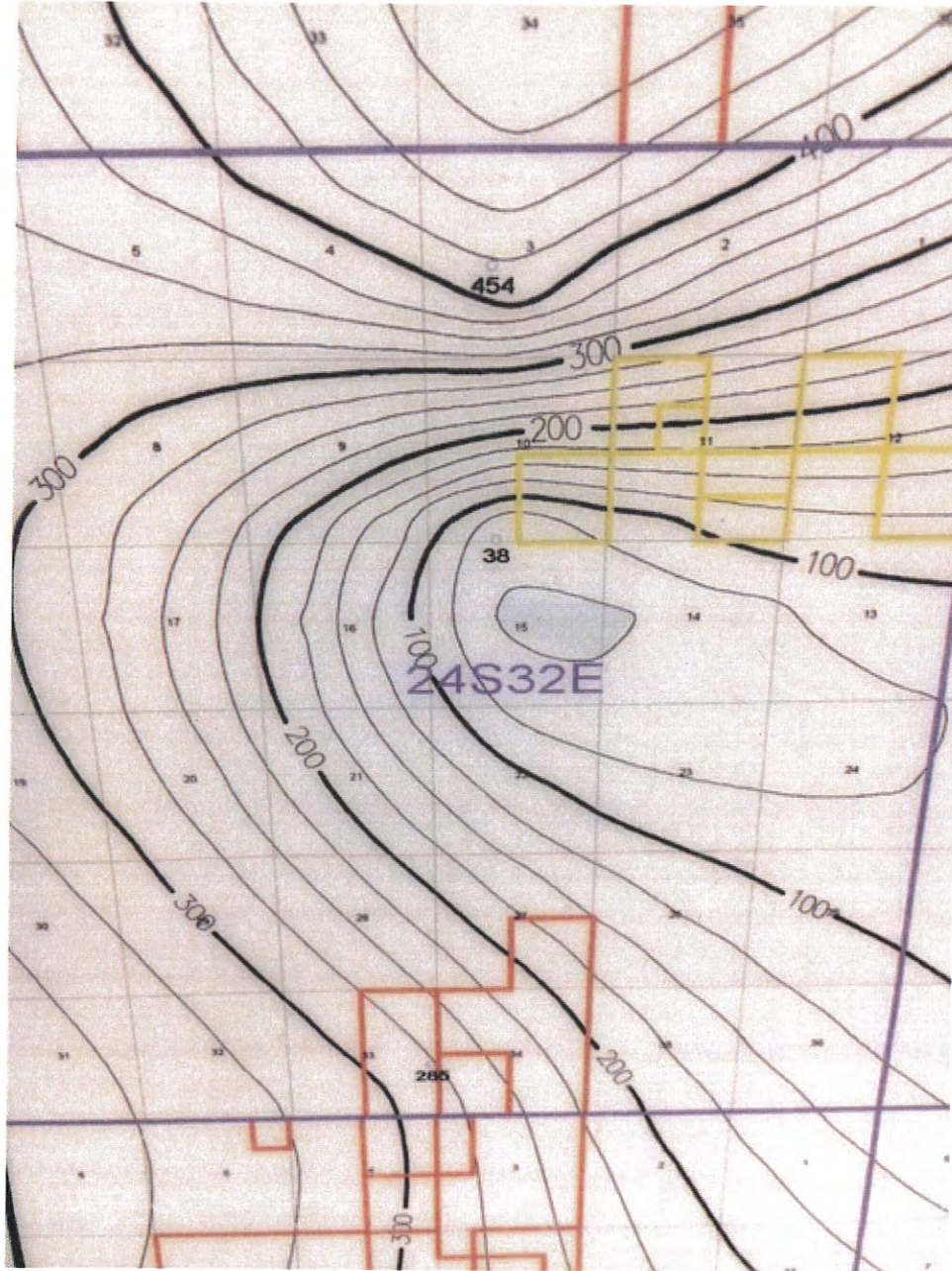
South Sample, GPS point: N 32.19592° W-103.63861°

East Sample, GPS point: N 32.19634° W-103.63846°

West Sample, GPS point: N 32.19658° W-103.63884°

A topographic map showing a hill with contour lines. The map includes a grid with letters A through S and numbers 1 through 34. Key features include:

- Contour Lines:** Labeled with elevations of 100, 200, 300, and 400 feet.
- Spot Elevation:** A point labeled 454 is located near the top of the hill.
- Water Feature:** A small pond or lake is labeled 38 and 24S32E.
- Infrastructure:** A road or path is shown running horizontally across the middle of the map, and another road or path is shown running vertically on the right side.
- Hand-drawn Markings:** A yellow rectangular box is drawn around the area containing the 200 and 300 foot contour lines. A red rectangular box is drawn around the area containing the 100 and 200 foot contour lines.





New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 628282

Northing (Y): 3563153

Radius: 1700

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

2/27/17 2:12 PM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Public Land Survey System (PLSS)

☒ Q64: Q16: SE Q4: SE Sec: 23 Tws: 24S Rng: 32E

State Plane Coordinate System - NAD27

☐ X: ft Y: ft Zone:

State Plane Coordinate System - NAD83

☐ X: ft Y: ft Zone:

Degrees/Minutes/Seconds

☐ Longitude (X): Degrees: ° Minutes: ' Seconds: "

Latitude (Y): Degrees: ° Minutes: ' Seconds: "

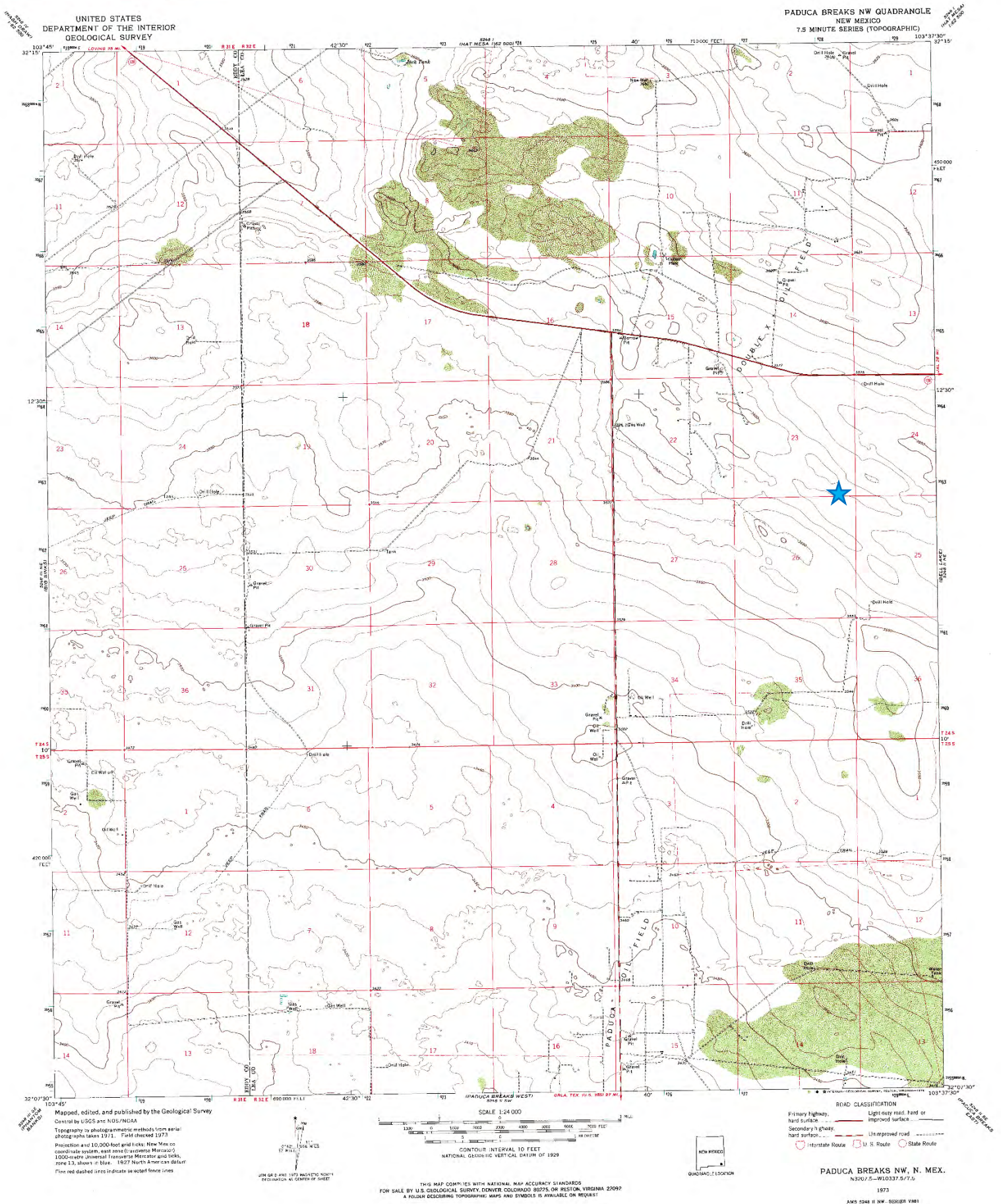
UTM - NAD27

☐ Easting (X): mtrs Northing (Y): mtrs Zone:

SUBMIT**All Conversion Results are displayed as NAD 1983 UTM Zone 13**Easting (X): mtrsNorthing (Y): mtrs**~~ Please keep screen open to copy UTM values for Reports. ~~**

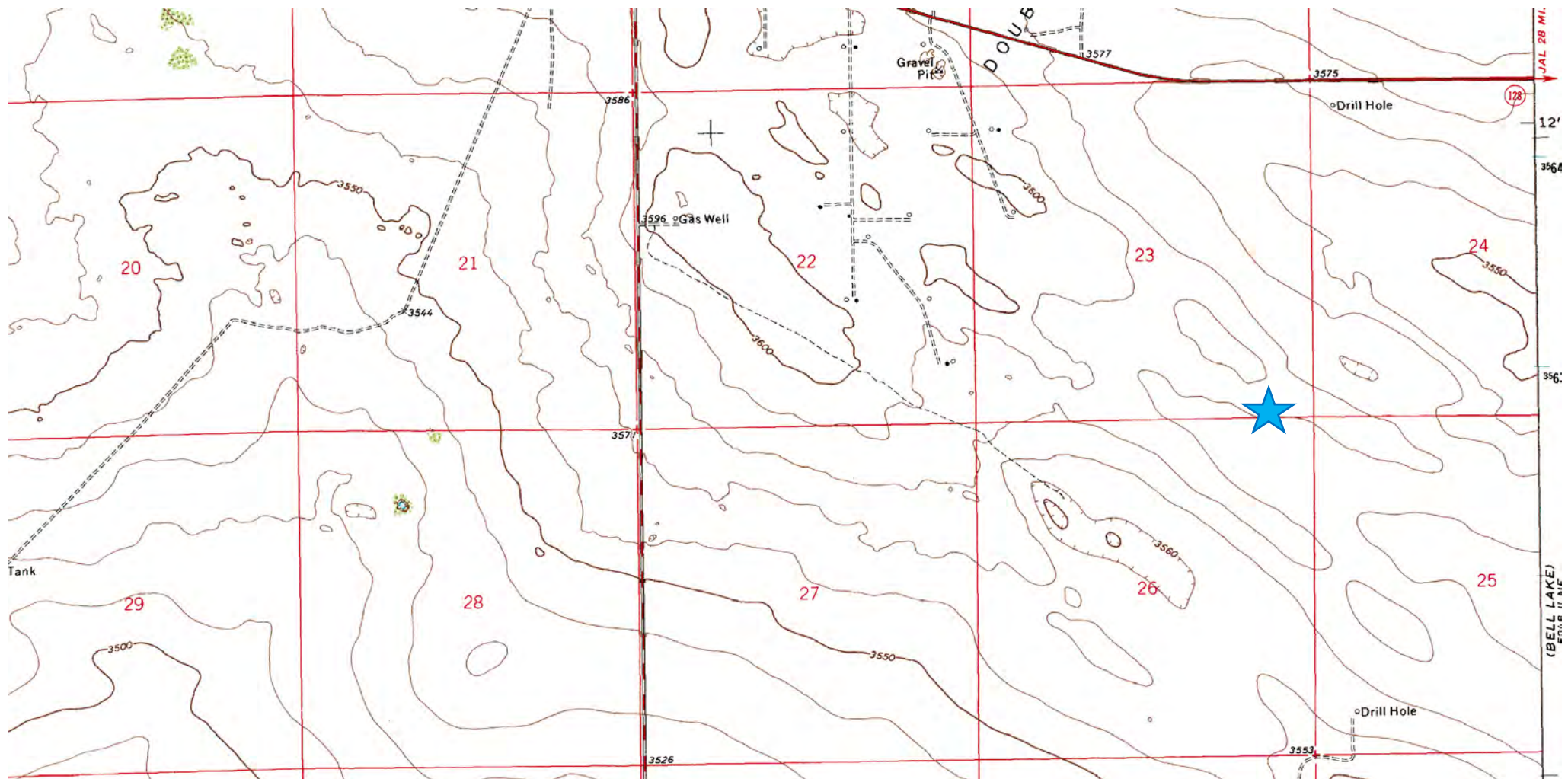
COG

Treasure Island Federal #1H Battery



COG

Treasure Island Federal #1H Battery



**Laboratory Analytical Results Summary
Treasure Island Federal #1H Battery**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'	SP1 @ 9'
Analyte	Method	Date	1/17/17	1/17/17	1/17/17	1/17/17	1/17/17	1/17/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		12.9	2.95	<0.050	<0.500	<0.050	<0.050
Toluene	BTEX 8021B		85.9	28.7	0.062	0.785	<0.050	<0.050
Ethylbenzene	BTEX 8021B		29.3	13	<0.050	0.635	<0.050	<0.050
Total Xylenes	BTEX 8021B		152	64.4	<0.150	3.95	<0.150	<0.150
Total BTEX	BTEX 8021B		280	109	<0.300	5.37	<0.300	<0.300
GRO	TPH 8015M		2930	1800	<10.0	291	<10.0	<10.0
DRO	TPH 8015M		6520	4090	58.8	2270	43.1	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	1/17/17	1/17/17
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	1/17/17	1/17/17
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	1/17/17	1/17/17
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP5 @ SURFACE
Analyte	Method	Date	1/17/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	NORTH SAMPLE
Analyte	Method	Date	1/17/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	EAST SAMPLE
Analyte	Method	Date	1/17/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	WEST SAMPLE
Analyte	Method	Date	1/17/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SOUTH SAMPLE
Analyte	Method	Date	1/17/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

**Laboratory Analytical Results Summary
Treasure Island Federal #1H Battery**

Confirmation		Sample	SP1 @ 2.5'	SIDEWALL #1	SIDEWALL #2	SIDEWALL #3	SIDEWALL #4
Analyte	Method	Date	5/23/17	5/23/17	5/23/17	5/23/17	5/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.056	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.205	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.169	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		0.43	<0.300	<0.300	<0.300	<0.300
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		168	<10.0	<10.0	<10.0	<10.0

January 25, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: TREASURE ISLAND FEDERAL #1H

Enclosed are the results of analyses for samples received by the laboratory on 01/19/17 9:05.

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:	01/19/2017	Sampling Date:	01/17/2017
Reported:	01/25/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SP 1 @ 1' (H700123-01)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	12.9	5.00	01/23/2017	ND	2.22	111	2.00	1.35	
Toluene*	85.9	5.00	01/23/2017	ND	2.21	110	2.00	1.27	
Ethylbenzene*	29.3	5.00	01/23/2017	ND	2.25	112	2.00	1.62	
Total Xylenes*	152	15.0	01/23/2017	ND	6.37	106	6.00	1.55	
Total BTX	280	30.0	01/23/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2930	10.0	01/19/2017	ND	195	97.3	200	1.16		
DRO >C10-C28	6520	10.0	01/19/2017	ND	201	100	200	0.152		

Surrogate: 1-Chlorooctane 211 % 35-147

Surrogate: 1-Chlorooctadecane 171 % 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:

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

Received:	01/19/2017	Sampling Date:	01/17/2017
Reported:	01/25/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SP 1 @ 2' (H700123-02)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.95	2.00	01/23/2017	ND	2.22	111	2.00	1.35	
Toluene*	28.7	2.00	01/23/2017	ND	2.21	110	2.00	1.27	
Ethylbenzene*	13.0	2.00	01/23/2017	ND	2.25	112	2.00	1.62	
Total Xylenes*	64.4	6.00	01/23/2017	ND	6.37	106	6.00	1.55	
Total BTEX	109	12.0	01/23/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1800	10.0	01/20/2017	ND	192	95.9	200	2.88		
DRO >C10-C28	4090	10.0	01/20/2017	ND	200	99.9	200	15.9		

Surrogate: 1-Chlorooctane 224 % 35-147

Surrogate: 1-Chlorooctadecane 148 % 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:

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

Received:	01/19/2017	Sampling Date:	01/17/2017
Reported:	01/25/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SP 1 @ 3' (H700123-03)

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	01/23/2017	ND	2.22	111	2.00	1.35		
Toluene*	0.062	0.050	01/23/2017	ND	2.21	110	2.00	1.27		
Ethylbenzene*	<0.050	0.050	01/23/2017	ND	2.25	112	2.00	1.62		
Total Xylenes*	<0.150	0.150	01/23/2017	ND	6.37	106	6.00	1.55		
Total BTEX	<0.300	0.300	01/23/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 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	01/20/2017	ND	192	95.9	200	0.904		
DRO >C10-C28	58.8	10.0	01/20/2017	ND	200	100	200	1.12		

Surrogate: 1-Chlorooctane 98.3 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

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Analytical Results For:

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

Received:	01/19/2017	Sampling Date:	01/17/2017
Reported:	01/25/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SP 1 @ 5' (H700123-04)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/23/2017	ND	2.22	111	2.00	1.35	
Toluene*	0.785	0.500	01/23/2017	ND	2.21	110	2.00	1.27	
Ethylbenzene*	0.635	0.500	01/23/2017	ND	2.25	112	2.00	1.62	
Total Xylenes*	3.95	1.50	01/23/2017	ND	6.37	106	6.00	1.55	
Total BTEX	5.37	3.00	01/23/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	291	10.0	01/20/2017	ND	192	95.9	200	0.904	
DRO >C10-C28	2270	10.0	01/20/2017	ND	200	100	200	1.12	

Surrogate: 1-Chlorooctane 119 % 35-147

Surrogate: 1-Chlorooctadecane 122 % 28-171

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Analytical Results For:

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

Received:	01/19/2017	Sampling Date:	01/17/2017
Reported:	01/25/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SP 1 @ 7' (H700123-05)

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	01/23/2017	ND	2.22	111	2.00	1.35		
Toluene*	<0.050	0.050	01/23/2017	ND	2.21	110	2.00	1.27		
Ethylbenzene*	<0.050	0.050	01/23/2017	ND	2.25	112	2.00	1.62		
Total Xylenes*	<0.150	0.150	01/23/2017	ND	6.37	106	6.00	1.55		
Total BTEX	<0.300	0.300	01/23/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 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	01/20/2017	ND	192	95.9	200	0.904		
DRO >C10-C28	43.1	10.0	01/20/2017	ND	200	100	200	1.12		

Surrogate: 1-Chlorooctane 83.3 % 35-147

Surrogate: 1-Chlorooctadecane 97.4 % 28-171

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Received:	01/19/2017	Sampling Date:	01/17/2017
Reported:	01/25/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SP 1 @ 9' (H700123-06)

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	01/23/2017	ND	2.22	111	2.00	1.35	
Toluene*	<0.050	0.050	01/23/2017	ND	2.21	110	2.00	1.27	
Ethylbenzene*	<0.050	0.050	01/23/2017	ND	2.25	112	2.00	1.62	
Total Xylenes*	<0.150	0.150	01/23/2017	ND	6.37	106	6.00	1.55	
Total BTEX	<0.300	0.300	01/23/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	01/20/2017	ND	192	95.9	200	0.904	
DRO >C10-C28	<10.0	10.0	01/20/2017	ND	200	100	200	1.12	

Surrogate: 1-Chlorooctane 90.4 % 35-147

Surrogate: 1-Chlorooctadecane 98.7 % 28-171

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Received:	01/19/2017	Sampling Date:	01/17/2017
Reported:	01/25/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SP 2 @ 1' (H700123-07)

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	01/23/2017	ND	2.22	111	2.00	1.35	
Toluene*	<0.050	0.050	01/23/2017	ND	2.21	110	2.00	1.27	
Ethylbenzene*	<0.050	0.050	01/23/2017	ND	2.25	112	2.00	1.62	
Total Xylenes*	<0.150	0.150	01/23/2017	ND	6.37	106	6.00	1.55	
Total BTEX	<0.300	0.300	01/23/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	01/20/2017	ND	192	95.9	200	0.904	
DRO >C10-C28	<10.0	10.0	01/20/2017	ND	200	100	200	1.12	

Surrogate: 1-Chlorooctane 83.7 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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Received:	01/19/2017	Sampling Date:	01/17/2017
Reported:	01/25/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SP 2 @ 2' (H700123-08)

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	01/23/2017	ND	2.22	111	2.00	1.35	
Toluene*	<0.050	0.050	01/23/2017	ND	2.21	110	2.00	1.27	
Ethylbenzene*	<0.050	0.050	01/23/2017	ND	2.25	112	2.00	1.62	
Total Xylenes*	<0.150	0.150	01/23/2017	ND	6.37	106	6.00	1.55	
Total BTEX	<0.300	0.300	01/23/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	01/20/2017	ND	192	95.9	200	0.904	
DRO >C10-C28	<10.0	10.0	01/20/2017	ND	200	100	200	1.12	

Surrogate: 1-Chlorooctane 86.2 % 35-147

Surrogate: 1-Chlorooctadecane 98.2 % 28-171

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Received:	01/19/2017	Sampling Date:	01/17/2017
Reported:	01/25/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SP 3 @ 1' (H700123-09)

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	01/23/2017	ND	2.22	111	2.00	1.35		
Toluene*	<0.050	0.050	01/23/2017	ND	2.21	110	2.00	1.27		
Ethylbenzene*	<0.050	0.050	01/23/2017	ND	2.25	112	2.00	1.62		
Total Xylenes*	<0.150	0.150	01/23/2017	ND	6.37	106	6.00	1.55		
Total BTEX	<0.300	0.300	01/23/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 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	01/20/2017	ND	192	95.9	200	0.904		
DRO >C10-C28	<10.0	10.0	01/20/2017	ND	200	100	200	1.12		

Surrogate: 1-Chlorooctane 84.7 % 35-147

Surrogate: 1-Chlorooctadecane 99.3 % 28-171

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Fax To: (575) 397-0397

Received:	01/19/2017	Sampling Date:	01/17/2017
Reported:	01/25/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SP 3 @ 2' (H700123-10)

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	01/23/2017	ND	2.22	111	2.00	1.35	
Toluene*	<0.050	0.050	01/23/2017	ND	2.21	110	2.00	1.27	
Ethylbenzene*	<0.050	0.050	01/23/2017	ND	2.25	112	2.00	1.62	
Total Xylenes*	<0.150	0.150	01/23/2017	ND	6.37	106	6.00	1.55	
Total BTEX	<0.300	0.300	01/23/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	01/20/2017	ND	192	95.9	200	0.904	
DRO >C10-C28	<10.0	10.0	01/20/2017	ND	200	100	200	1.12	

Surrogate: 1-Chlorooctane 81.3 % 35-147

Surrogate: 1-Chlorooctadecane 99.4 % 28-171

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Analytical Results For:

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

Received:	01/19/2017	Sampling Date:	01/17/2017
Reported:	01/25/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SP 4 @ 1' (H700123-11)

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	01/25/2017	ND	1.89	94.7	2.00	1.16		
Toluene*	<0.050	0.050	01/25/2017	ND	1.88	94.0	2.00	0.834		
Ethylbenzene*	<0.050	0.050	01/25/2017	ND	1.91	95.4	2.00	0.817		
Total Xylenes*	<0.150	0.150	01/25/2017	ND	5.41	90.1	6.00	0.648		
Total BTEX	<0.300	0.300	01/25/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 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	01/20/2017	ND	192	95.9	200	0.904		
DRO >C10-C28	<10.0	10.0	01/20/2017	ND	200	100	200	1.12		

Surrogate: 1-Chlorooctane 79.6 % 35-147

Surrogate: 1-Chlorooctadecane 94.6 % 28-171

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Fax To: (575) 397-0397

Received:	01/19/2017	Sampling Date:	01/17/2017
Reported:	01/25/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SP 4 @ 2' (H700123-12)

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	01/25/2017	ND	1.89	94.7	2.00	1.16		
Toluene*	<0.050	0.050	01/25/2017	ND	1.88	94.0	2.00	0.834		
Ethylbenzene*	<0.050	0.050	01/25/2017	ND	1.91	95.4	2.00	0.817		
Total Xylenes*	<0.150	0.150	01/25/2017	ND	5.41	90.1	6.00	0.648		
Total BTEX	<0.300	0.300	01/25/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	01/20/2017	ND	192	95.9	200	0.904	
DRO >C10-C28	<10.0	10.0	01/20/2017	ND	200	100	200	1.12	

Surrogate: 1-Chlorooctane 82.8 % 35-147

Surrogate: 1-Chlorooctadecane 93.8 % 28-171

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Received:	01/19/2017	Sampling Date:	01/17/2017
Reported:	01/25/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SP 5 @ SURFACE (H700123-13)

BTX 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	01/25/2017	ND	1.89	94.7	2.00	1.16		
Toluene*	<0.050	0.050	01/25/2017	ND	1.88	94.0	2.00	0.834		
Ethylbenzene*	<0.050	0.050	01/25/2017	ND	1.91	95.4	2.00	0.817		
Total Xylenes*	<0.150	0.150	01/25/2017	ND	5.41	90.1	6.00	0.648		
Total BTX	<0.300	0.300	01/25/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 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	01/20/2017	ND	192	95.9	200	0.904	
DRO >C10-C28	<10.0	10.0	01/20/2017	ND	200	100	200	1.12	

Surrogate: 1-Chlorooctane 88.7 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 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:	01/19/2017	Sampling Date:	01/17/2017
Reported:	01/25/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: NORTH (H700123-14)

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	01/25/2017	ND	1.89	94.7	2.00	1.16		
Toluene*	<0.050	0.050	01/25/2017	ND	1.88	94.0	2.00	0.834		
Ethylbenzene*	<0.050	0.050	01/25/2017	ND	1.91	95.4	2.00	0.817		
Total Xylenes*	<0.150	0.150	01/25/2017	ND	5.41	90.1	6.00	0.648		
Total BTEX	<0.300	0.300	01/25/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	01/20/2017	ND	192	95.9	200	0.904		
DRO >C10-C28	<10.0	10.0	01/20/2017	ND	200	100	200	1.12		

Surrogate: 1-Chlorooctane 83.3 % 35-147

Surrogate: 1-Chlorooctadecane 95.9 % 28-171

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Analytical Results For:

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

Received:	01/19/2017	Sampling Date:	01/17/2017
Reported:	01/25/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: EAST (H700123-15)

BTX 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	01/25/2017	ND	1.89	94.7	2.00	1.16	
Toluene*	<0.050	0.050	01/25/2017	ND	1.88	94.0	2.00	0.834	
Ethylbenzene*	<0.050	0.050	01/25/2017	ND	1.91	95.4	2.00	0.817	
Total Xylenes*	<0.150	0.150	01/25/2017	ND	5.41	90.1	6.00	0.648	
Total BTX	<0.300	0.300	01/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	01/20/2017	ND	192	95.9	200	0.904	
DRO >C10-C28	<10.0	10.0	01/20/2017	ND	200	100	200	1.12	

Surrogate: 1-Chlorooctane 87.6 % 35-147

Surrogate: 1-Chlorooctadecane 92.4 % 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:	01/19/2017	Sampling Date:	01/17/2017
Reported:	01/25/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: WEST (H700123-16)

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	01/25/2017	ND	1.89	94.7	2.00	1.16		
Toluene*	<0.050	0.050	01/25/2017	ND	1.88	94.0	2.00	0.834		
Ethylbenzene*	<0.050	0.050	01/25/2017	ND	1.91	95.4	2.00	0.817		
Total Xylenes*	<0.150	0.150	01/25/2017	ND	5.41	90.1	6.00	0.648		
Total BTEX	<0.300	0.300	01/25/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 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	01/20/2017	ND	192	95.9	200	0.904	
DRO >C10-C28	<10.0	10.0	01/20/2017	ND	200	100	200	1.12	

Surrogate: 1-Chlorooctane 84.9 % 35-147

Surrogate: 1-Chlorooctadecane 98.4 % 28-171

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Analytical Results For:

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

Received:	01/19/2017	Sampling Date:	01/17/2017
Reported:	01/25/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SOUTH (H700123-17)

BTX 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	01/25/2017	ND	1.89	94.7	2.00	1.16		
Toluene*	<0.050	0.050	01/25/2017	ND	1.88	94.0	2.00	0.834		
Ethylbenzene*	<0.050	0.050	01/25/2017	ND	1.91	95.4	2.00	0.817		
Total Xylenes*	<0.150	0.150	01/25/2017	ND	5.41	90.1	6.00	0.648		
Total BTX	<0.300	0.300	01/25/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 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	01/20/2017	ND	192	95.9	200	0.904	
DRO >C10-C28	<10.0	10.0	01/20/2017	ND	200	100	200	1.12	

Surrogate: 1-Chlorooctane 92.2 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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

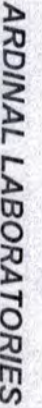
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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 20 of 21



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: *Traverse*

Project Location: *1228*

Sampler Name: *1228*

P.O. #:

Company:

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

BILL TO

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :												
H760123	SP 421	G	1	X	X	X	X	X	X	5/7	149	X	X	X	X	X	X	X	X	X	X
11	SP 421	G	1	X	X	X	X	X	X	5/7	159	X	X	X	X	X	X	X	X	X	X
12	SP 421	G	1	X	X	X	X	X	X	5/7	215	X	X	X	X	X	X	X	X	X	X
13	SP 421	G	1	X	X	X	X	X	X	5/7	220	X	X	X	X	X	X	X	X	X	X
14	SP 421	G	1	X	X	X	X	X	X	5/7	229	X	X	X	X	X	X	X	X	X	X
15	SP 421	G	1	X	X	X	X	X	X	5/7	235	X	X	X	X	X	X	X	X	X	X
16	SP 421	G	1	X	X	X	X	X	X	5/7	243	X	X	X	X	X	X	X	X	X	X
17	SP 421	G	1	X	X	X	X	X	X	5/7	243	X	X	X	X	X	X	X	X	X	X

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Relinquished By:

Date: 1-18-17

Received By:

Phone Result:

Fax Result:

REMARKS:

Relinquished By:

Date: 1/19/17

Received By:

Phone Result:

Relinquished By:

Date: 1/19/17

Received By:

Phone Result:

Relinquished By:

Date: 1/19/17

Received By:

Phone Result:

Relinquished By:

Date: 1/19/17

Received By:

Phone Result:

Relinquished By:

Date: 1/19/17

Received By:

Phone Result:

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 01, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: TREASURE ISLAND FEDERAL #1H

Enclosed are the results of analyses for samples received by the laboratory on 05/26/17 16:15.

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, flowing 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:	05/26/2017	Sampling Date:	05/23/2017
Reported:	06/01/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP1 @ 2.5' (H701411-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.056	0.050	05/31/2017	ND	1.89	94.5	2.00	0.0256	
Toluene*	0.205	0.050	05/31/2017	ND	1.83	91.5	2.00	0.445	
Ethylbenzene*	<0.050	0.050	05/31/2017	ND	1.91	95.6	2.00	0.290	
Total Xylenes*	0.169	0.150	05/31/2017	ND	5.23	87.2	6.00	0.317	
Total BTX	0.430	0.300	05/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

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	05/30/2017	ND	193	96.4	200	1.63	
DRO >C10-C28	168	10.0	05/30/2017	ND	186	93.0	200	2.70	

Surrogate: 1-Chlorooctane 70.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 58.6 % 34.7-157

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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:	05/26/2017	Sampling Date:	05/23/2017
Reported:	06/01/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SIDEWALL #1 (H701411-02)

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	05/31/2017	ND	1.89	94.5	2.00	0.0256		
Toluene*	<0.050	0.050	05/31/2017	ND	1.83	91.5	2.00	0.445		
Ethylbenzene*	<0.050	0.050	05/31/2017	ND	1.91	95.6	2.00	0.290		
Total Xylenes*	<0.150	0.150	05/31/2017	ND	5.23	87.2	6.00	0.317		
Total BTEX	<0.300	0.300	05/31/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 72-148

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	05/30/2017	ND	193	96.4	200	1.63		
DRO >C10-C28	<10.0	10.0	05/30/2017	ND	186	93.0	200	2.70		

Surrogate: 1-Chlorooctane 89.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 75.1 % 34.7-157

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Analytical Results For:

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

Received:	05/26/2017	Sampling Date:	05/23/2017
Reported:	06/01/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SIDEWALL #2 (H701411-03)

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	05/31/2017	ND	1.89	94.5	2.00	0.0256		
Toluene*	<0.050	0.050	05/31/2017	ND	1.83	91.5	2.00	0.445		
Ethylbenzene*	<0.050	0.050	05/31/2017	ND	1.91	95.6	2.00	0.290		
Total Xylenes*	<0.150	0.150	05/31/2017	ND	5.23	87.2	6.00	0.317		
Total BTEX	<0.300	0.300	05/31/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 72-148

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	05/30/2017	ND	193	96.4	200	1.63		
DRO >C10-C28	<10.0	10.0	05/30/2017	ND	186	93.0	200	2.70		

Surrogate: 1-Chlorooctane 99.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 77.9 % 34.7-157

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Analytical Results For:

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

Received:	05/26/2017	Sampling Date:	05/23/2017
Reported:	06/01/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SIDEWALL #3 (H701411-04)

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	05/31/2017	ND	1.89	94.5	2.00	0.0256		
Toluene*	<0.050	0.050	05/31/2017	ND	1.83	91.5	2.00	0.445		
Ethylbenzene*	<0.050	0.050	05/31/2017	ND	1.91	95.6	2.00	0.290		
Total Xylenes*	<0.150	0.150	05/31/2017	ND	5.23	87.2	6.00	0.317		
Total BTEX	<0.300	0.300	05/31/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 72-148

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	05/30/2017	ND	193	96.4	200	1.63		
DRO >C10-C28	<10.0	10.0	05/30/2017	ND	186	93.0	200	2.70		

Surrogate: 1-Chlorooctane 89.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 76.1 % 34.7-157

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:	05/26/2017	Sampling Date:	05/23/2017
Reported:	06/01/2017	Sampling Type:	Soil
Project Name:	TREASURE ISLAND FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SIDEWALL #4 (H701411-05)

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	05/31/2017	ND	1.89	94.5	2.00	0.0256		
Toluene*	<0.050	0.050	05/31/2017	ND	1.83	91.5	2.00	0.445		
Ethylbenzene*	<0.050	0.050	05/31/2017	ND	1.91	95.6	2.00	0.290		
Total Xylenes*	<0.150	0.150	05/31/2017	ND	5.23	87.2	6.00	0.317		
Total BTEX	<0.300	0.300	05/31/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 72-148

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	05/30/2017	ND	193	96.4	200	4.77		
DRO >C10-C28	<10.0	10.0	05/30/2017	ND	187	93.7	200	5.60		

Surrogate: 1-Chlorooctane 90.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 78.5 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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.		P.O. #:		BILL TO																													
Project Manager: Cliff Brunson		Company:		ANALYSIS REQUEST																													
Address: P.O. Box 805		Attn:																															
City: Hobbs		Address:																															
Phone #: 575-397-6388		City:																															
Fax #: 575-397-0397		State:																															
Project #:		Zip:																															
Project Name: TREASURE ISLAND Fcd #1H		Phone #:																															
Project Location:		Fax #:																															
Sample Name: PAPER WASTE		PRESERV		SAMPLING																													
FOR LAB USE ONLY																																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :																								
H701411	SP1 @ 2.5'		1														5-23-17	400			TPH												
1	SIDEWALL #1		1														5-23-17	400			BTEX												
2	SIDEWALL #2		1														5-23-17	400															
3	SIDEWALL #3		1														5-23-17	400															
4	SIDEWALL #4		1														5-23-17	400															
5	SIDEWALL #5		1														5-23-17	430															

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Relinquished By: <i>Cliff Brunson</i>	Date: _____	Received By: _____	Date: _____
Relinquished By: _____	Date: _____	Received By: _____	Date: _____
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: _____ (Initials)	701415

Phone Result: ☐ Yes ☐ No Add'l Phone #: _____
Fax Result: ☐ Yes ☐ No Add'l Fax #: _____

REMARKS:

From: Yu, Olivia, EMNRD
To: [Cliff Brunson](#); [Shelly Tucker](#)
Cc: [Becky Haskell](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)
Subject: RE: COG - Treasure Island Federal #1H Battery - Delineation Workplan
Date: Wednesday, April 12, 2017 1:21:05 PM

Dear Mr. Brunson:

The delineation workplan for 1RP-4521 is approved with one condition:

There is no certainty that BTEX is below permissible levels at 2.5 ft bgs. NMOCD requests bottom and sidewall soil samples for laboratory analyses of BTEX and TPH for SP1 at 2.5 ft. If levels are above permissible values (>50 mg/kg BTEX; >5000 mg/kg TPH), excavate to 3 ft. Please confirm.

Thanks,
Olivia

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Thursday, March 23, 2017 6:30 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Shelly Tucker <stucker@blm.gov>
Cc: Becky Haskell <rhaskell@concho.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>
Subject: COG - Treasure Island Federal #1H Battery - Delineation Workplan

Olivia and Shelly,

Please find the attached Delineation Workplan and remediation proposal for the COG Treasure Island Federal #1H Battery (1RP-4521). COG is requesting that you review this plan and is looking forward to the OCD's and BLM's approval.

If you have any questions, please let me know.

Thanks, Cliff

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



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From: Tucker, Shelly
To: [Cliff Brunson](#)
Cc: [Becky Haskell](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)
Subject: Re: FW: COG - Treasure Island Federal #1H Battery - Delineation Workplan
Date: Monday, April 24, 2017 12:36:01 PM

BLM concurs with the NMOCD.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
O&G Spill/Release Coordinator

Bureau of Land Management
620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular
575.234.6235 - Emergency Spill Number

stucker@blm.gov

The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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On Fri, Apr 21, 2017 at 3:08 PM, Cliff Brunson <cbrunson@bbcinternational.com> wrote:

Shelly,

Per our discussion earlier today, I have attached the approved plan from Olivia. If you would reply with your approval as well, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

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From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]

Sent: Friday, April 21, 2017 12:39 PM

To: Cliff Brunson <cbrunson@bbcinternational.com>; 'Shelly Tucker' <stucker@blm.gov>

Cc: 'Becky Haskell' <rhaskell@concho.com>; 'Ken Swinney' <kswinney@bbcinternational.com>; 'Jennifer Gilkey' <jgilkey@bbcinternational.com>; 'Kathy Purvis' <kathy@bbcinternational.com>

Subject: RE: COG - Treasure Island Federal #1H Battery - Delineation Workplan

Mr. Brunson:

Please see the attachment for your records.

Thanks,

Olivia

From: Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Friday, April 21, 2017 11:33 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; 'Shelly Tucker' <stucker@blm.gov>
Cc: 'Becky Haskell' <rhaskell@concho.com>; 'Ken Swinney' <kswinney@bbcinternational.com>; 'Jennifer Gilkey' <jgilkey@bbcinternational.com>; 'Kathy Purvis' <kathy@bbcinternational.com>
Subject: RE: COG - Treasure Island Federal #1H Battery - Delineation Workplan

Olivia,

This is to confirm that COG will take bottom and sidewall confirmation samples and analyze for BTEX and TPH at SP1 at 2.5 ft. to verify levels are at permissible levels. If not, further excavation to 3 feet will be conducted.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

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From: Yu, Olivia, EMNRD [<mailto:Olivia.Yu@state.nm.us>]
Sent: Wednesday, April 12, 2017 1:21 PM
To: Cliff Brunson <cbrunson@bbcinternational.com>; Shelly Tucker <stucker@blm.gov>
Cc: Becky Haskell <rhaskell@concho.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>
Subject: RE: COG - Treasure Island Federal #1H Battery - Delineation Workplan

Dear Mr. Brunson:

The delineation workplan for 1RP-4521 is approved with one condition:

There is no certainty that BTEX is below permissible levels at 2.5 ft bgs. NMOCD requests bottom and sidewall soil samples for laboratory analyses of BTEX and TPH for SP1 at 2.5 ft. If levels are above permissible values (>50 mg/kg BTEX; >5000 mg/kg TPH), excavate to 3 ft. Please confirm.

Thanks,

Olivia

From: Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Thursday, March 23, 2017 6:30 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Shelly Tucker <stucker@blm.gov>
Cc: Becky Haskell <rhaskell@concho.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>
Subject: COG - Treasure Island Federal #1H Battery - Delineation Workplan

Olivia and Shelly,

Please find the attached Delineation Workplan and remediation proposal for the COG Treasure Island Federal #1H Battery (1RP-4521). COG is requesting that you review this plan and is looking forward to the OCD's and BLM's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

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