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DELINEATION WORKPLAN

COG – TREASURE ISLAND FEDERAL #1H BATTERY (Leak Date: 11/13/16)

RP # 1RP-4521

This delineation workplan and remediation proposal addresses the release associated with RP # 1 RP-4521.

The following information includes:

1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
2. GPS information for sample points and sample methodology
3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
4. Laboratory analysis results summary table and original laboratory analysis reports
5. A copy of the initial C-141
6. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

COG will excavate the spill area as depicted on the following site diagram. The leak area near SP1 will be excavated to a depth of 2.5 feet. The leak area near SP2-sp5 will be excavated to a depth of 6 inches.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

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

APPROVED

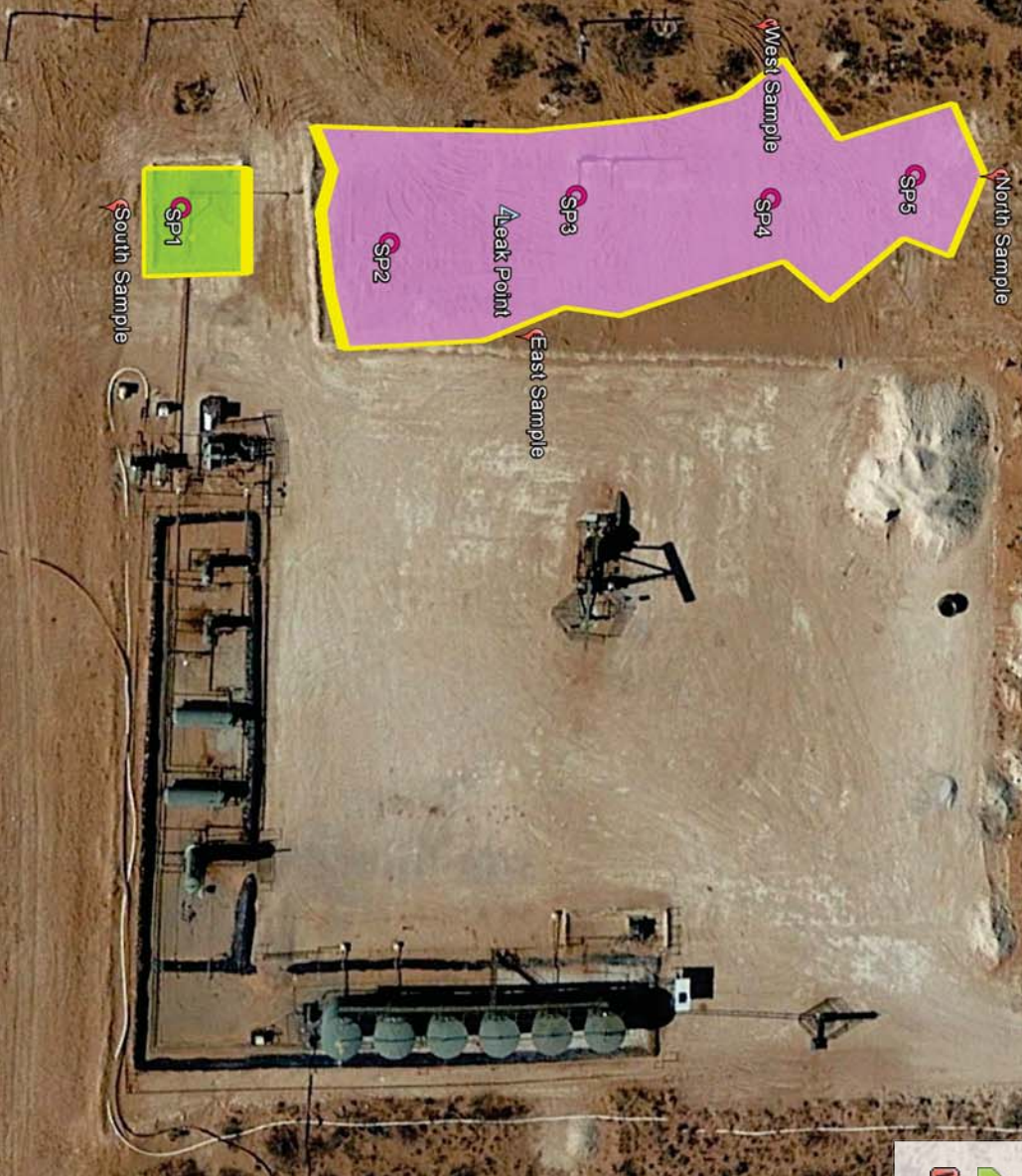
By Olivia Yu at 12:30 pm, Apr 21, 2017

Delineation workplan is approved for 1RP-4521 with the following condition:

SP1: bottom and sidewall soil samples for laboratory analyses of BTEX and TPH at 2.5 ft. If above permissible levels, excavate to 3 ft. bgs.

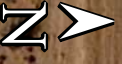
COG, Treasure Island Federal #1H Battery

Leak Date: 11/13/2016
Lea County, NM
API# 30-025-41776
RP# 1RP-4521



Legend

- E East Sample
- Sample Points, Hand Auger
- ▲ Leak Point
- N North Sample
- S South Sample
- Spill Area, 6 Inch Scrape
- Spill Area, 2.5ft Excavation
- W 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°

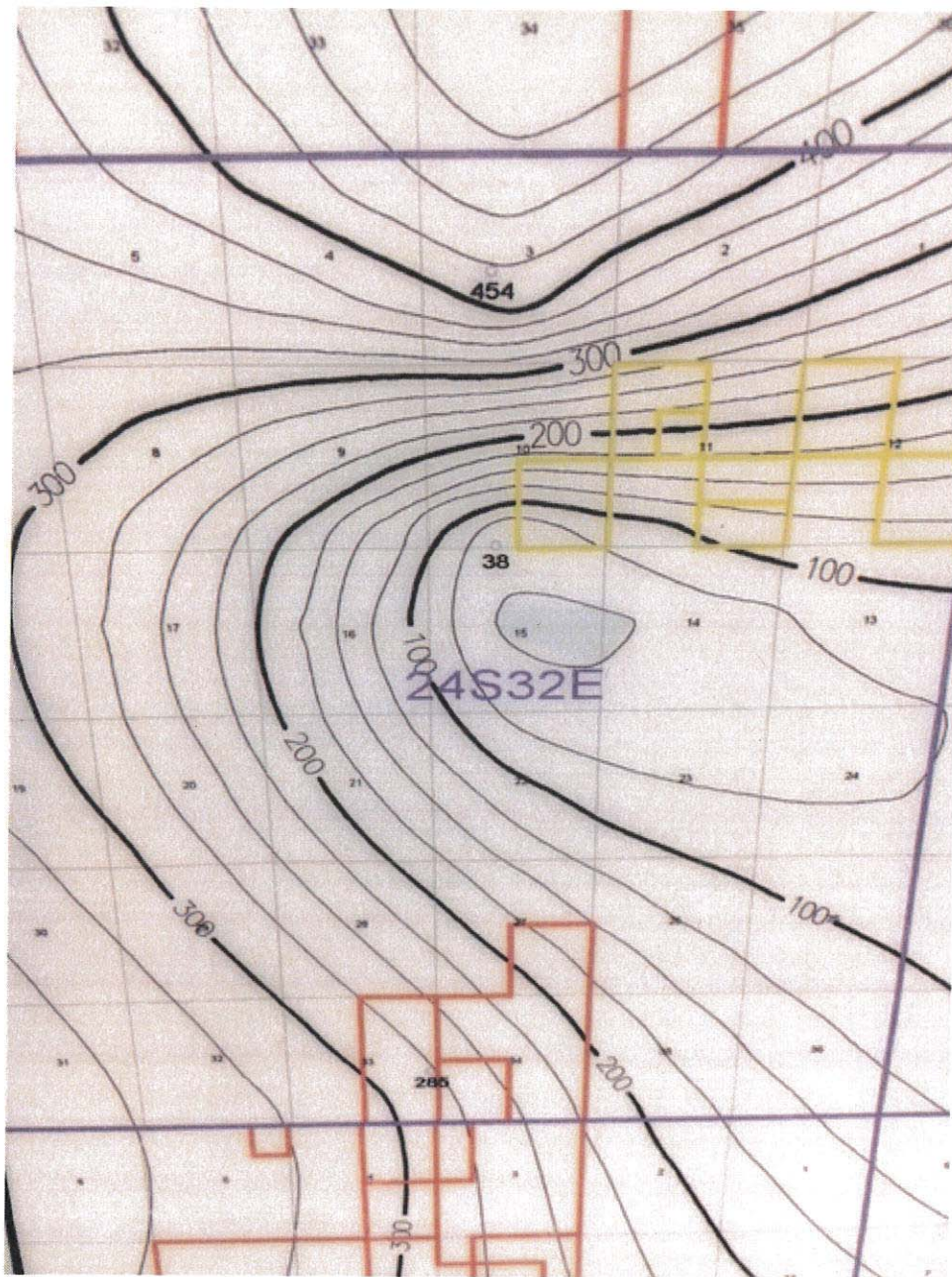
Samples, Hand Auger

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°





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.

UTMNA83 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: Q4: Sec: Tws: Rng:

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. ~~**



Groundwater Plot

COG Treasure Island Federal #1H Battery

County
Lea

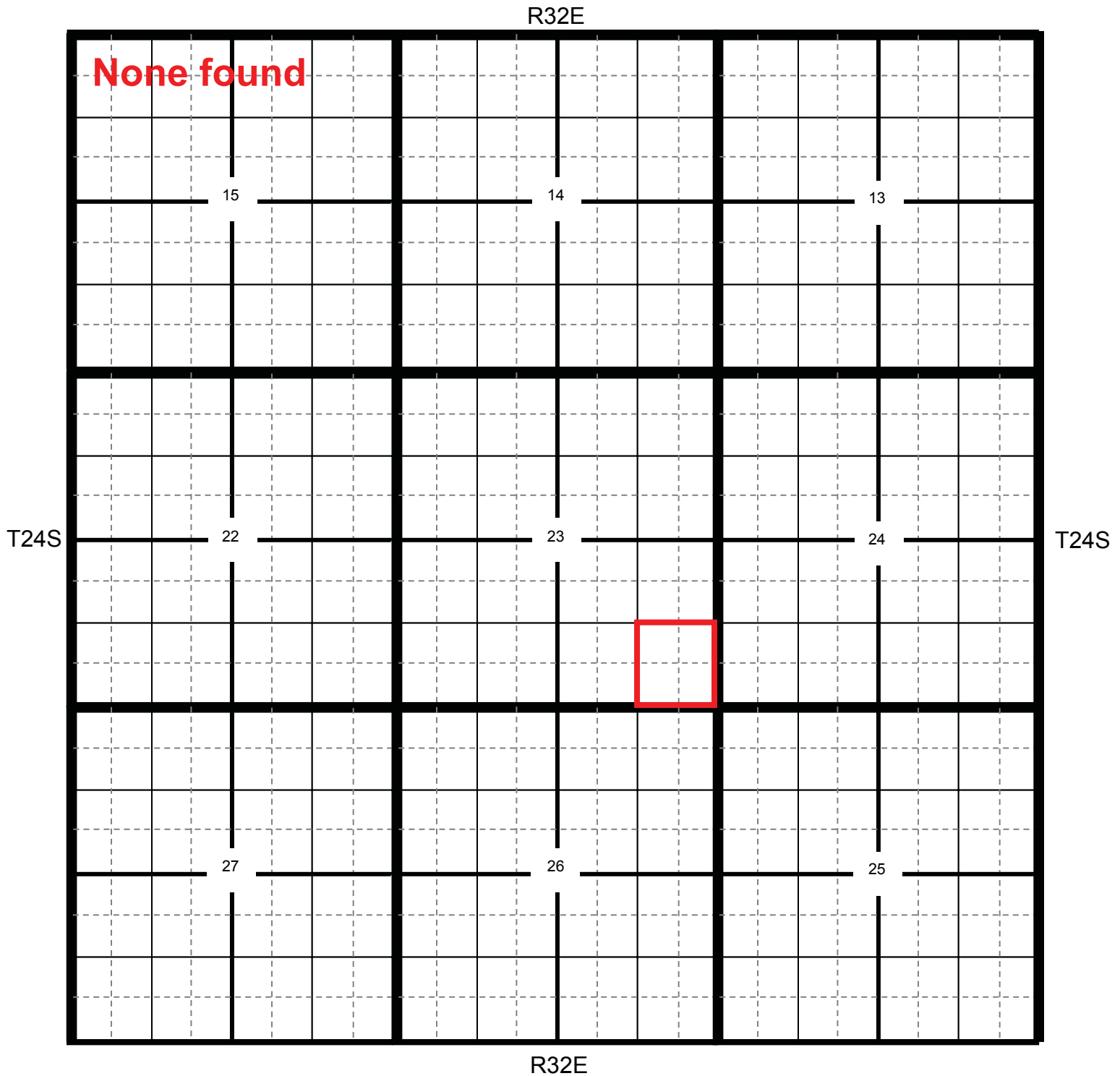
Unit Letter
P

Section
23

Township
24S

Range
32E

Trend Map 100'



Location

OCD

USGS

SEO

All Databases

COG Treasure Island Federal #1H Btry

County
Lea

Unit Letter
P

Section
23

Township
24S

Range
32E

Trend Map 100'

1

2

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

3

4

📍 Location

● OCD

● USGS

● SEO

● All Databases

**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

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)

BTEX 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 BTEX	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

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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

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*=Accredited Analyte

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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 @ 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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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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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 @ 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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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 @ 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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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 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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Analytical Results For:

BBC International, Inc.
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 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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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 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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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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Analytical Results For:

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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 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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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 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

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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: 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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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)

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 87.6 % 35-147

Surrogate: 1-Chlorooctadecane 92.4 % 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: 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

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: SOUTH (H700123-17)

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) 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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sampler Name:

BILL TO

P.O. #:

Company:

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H7B0123

SP101

SP201

SP301

SP401

SP501

SP601

SP701

SP801

SP901

SP1001

SP1101

SP1201

SP1301

SP1401

SP1501

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

BTEX
TPH

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Relinquished By:

Date: 1-18-17

Received By:

Semra Guler

Relinquished By:

Date: 1-19-17

Received By:

Semra Guler

Relinquished By:

Date: 1-19-17

Received By:

Semra Guler

Delivered By: (Circle One)

Time: 9:05

Received By:

Semra Guler

Sampler - UPS - Bus - Other: #75

Time: 5:30

Sample Condition

CHECKED BY: (initials)

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



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.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: *TruBac*

Project Location: *1278*

Sampler Name: *1278*

P.O. #:

Company:

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.

Sample I.D.

H76123

SP 421

SP 502

SP 503

SP 504

SP 505

SP 506

SP 507

SP 508

SP 509

SP 510

SP 511

SP 512

SP 513

SP 514

SP 515

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

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Relinquished By:

Date: *1-18-17*

Received By:

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Relinquished By:

Date: *1-18-17*

Received By:

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TIME

DATE

TIME

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

#75 5:30

Cool Intact

Checked By: *Initials*

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

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 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

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:	<u>Rebecca Haskell</u>				
Printed Name:	Rebecca Haskell				
Title:	Senior HSE Coordinator				
E-mail Address:	rhaskell@concho.com				
Date:	November 15, 2016				
Phone:	432-683-7443				
OIL CONSERVATION DIVISION			Approved by Environmental Specialist:		
Approval Date:			Expiration Date:		
Conditions of Approval:			Attached <input type="checkbox"/>		

* Attach Additional Sheets If Necessary