

PHONE (575) 397-6388 • FAX (575) 397-0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805 E-MAIL: cbrunson@bbcinternational.com

DELINEATION WORKPLAN

COG – GUNSLINGER 11 FED COM #002

(Leak Date: 1/08/17)

RP # 1RP-4562 API # 30-025-38122 **APPROVED**

By Olivia Yu at 7:43 am, Jun 13, 2017

NMOCD approves the delineation workplan and proposed remediation for 1RP-4562.

This delineation workplan and remediation proposal addresses the release associated with RP # 1RP-4562.

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.

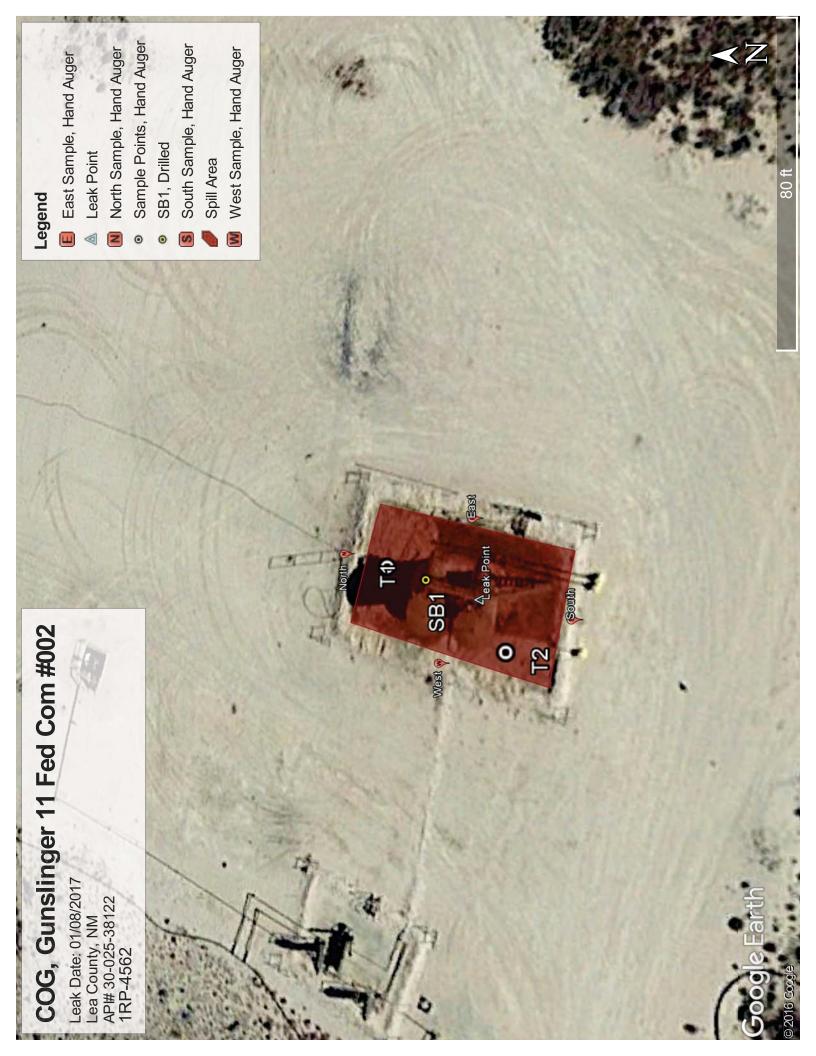
Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

COG will excavate the spill area as depicted on the following site diagram. The entire leak area will be excavated to a depth of 2 feet then install a liner and backfill. Since this is a working facility, this is all that can be removed due to safety concerns around the production equipment.

If this plan is not acceptable, then COG respectfully requests a deferment until this facility is closed.

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.



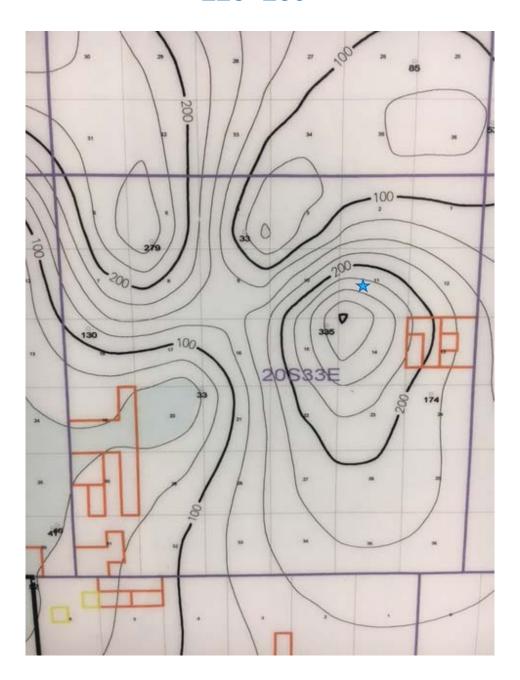
COG, Gunslinger 11 Fed Com #002

Sample Points, Hand Auger T1, N 32.58667 W-103.63699 T2, N 32.58657 W-103.63706

North Sample, N 32.58671 W-103.63698 South Sample, N 32.58652 W-103.63703 East Sample, N 32.58660 W-103.63694 West Sample, N 32.58663 W-103.63707

Sample Point, Drilled SB1, N 32.58664 W-103.63700

COG, Gunslinger 11 Fed Com #002 U/L K, Section 11, T20S, R33E 225'-250'





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): 628008 **Northing (Y):** 3606193 **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.

3/31/17 11:42 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

	0	Q64:	P (Q16: NE	ublic Land Su	urvey System (PLSS) Sec: 11 Tws: 20S Rng: 33E	
	0	X: 0 ft			dinate System - NAD27 Zone:	
	0	X: 0 ft		e Plane Coord	dinate System - NAD83 Zone:	
	0	Longitude (X): Latitude (Y):		grees: 0 °	Minutes: 0 ' Seconds: 0 " Minutes: 0 ' Seconds: 0 "	
	0	Easting (X): 0	mtrs Nor		M - NAD27 mtrs Zone:	
ı.				•	SUBMIT	
		All	Conversion R	Results are di	splayed as <u>NAD 1983 UTM Zone 13</u>	
		Easting (X):	628008.0	mtrs	Northing (Y): 3606193.0 mtrs	
			~~ Please kee	p screen open	to copy UTM values for Reports. ~~	

Laboratory Analytical Results Summary Gunslinger 11 Fed Com #002

		Sample	T1 @ 1.	T1 @ 2'	T1 @ 3'	T1 @ 4'	T1 @ 5'	T1 @ 6'	T1 @ 8'	T1 @ 10'	T1 @ 12'
Analyte	Method	Date	1/23/17	1/23/17	1/23/17	1/23/17	1/23/17	1/23/17	1/23/17	1/23/17	1/23/17
			mg/Kg	mg/Kg							
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	u/a	u/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	u/a	u/a	n/a	n/a
Ethylbenzene	Ethylbenzene BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	u/a	u/a	n/a	n/a
Total Xylenes	otal Xylenes BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	n/a	u/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		112	304	224	416	2760	1380	1800	1060	926
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	8'44	124	<10.0	<10.0	n/a	u/a	n/a	n/a

		Sample	T2 @ 1.5'	T2 @ 2'	T2 @ 3'	T2 @ 4'	T2 @ 5'	T2 @ 6'	T2 @ 8'	T2 @ 10'	T2 @ 12'
Analyte	Method	Date	1/23/17	1/23/17	1/23/17	1/23/17	1/23/17	1/23/17	1/23/17	1/23/17	1/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	u/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	u/a	n/a
Ethylbenzene BTEX 8021B	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	u/a	n/a
Total Xylenes BTEX 8021B	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	008.0>	n/a	n/a	u/a	n/a
Chloride	SM4500CI-B		128	64	96	80	96	96	16	08	16
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	n/a	n/a	u/a	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	n/a	n/a	u/a	n/a

Laboratory Analytical Results Summary Gunslinger 11 Fed Com #002

		Sample	SP1 @ 15' SB1 @ 17'	SB1 @ 17
Analyte	Method	Date	4/5/17	4/5/17
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		64	96

Sample Method Date
0.VF30005-10

				ı	
SAMPLE	4/5/17	mg/Kg	64		TO TAKE
Sample	Date				
	Method		SM4500CI-B		
	Analyte		Chloride		

		Sample	SAMPLE
Analyte	Method	Date	4/5/17
			mg/Kg
Chloride	SM4500CI-B		64
		Sample	SOUTH
		Salliple	SAMPLE
Analyte	Method	Date	4/5/17
			mg/Kg
Chloride	SM4500CI-R		80

WEST SAMPLE	4/5/17	mg/Kg	64	SOUTH	4/5/17	gy/gm	
Sample	Date			Sample	Date		
	Method		SM4500CI-B		Method		
	Analyte		hloride		Analyte		



January 30, 2017

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: GUNSLINGER 11 #2H

Enclosed are the results of analyses for samples received by the laboratory on 01/25/17 12:15.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keene

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



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

 Received:
 01/25/2017
 Sampling Date:
 01/23/2017

 Reported:
 01/30/2017
 Sampling Type:
 Soil

Project Name: GUNSLINGER 11 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Angela Cabrera

Project Location: NOT GIVEN

Sample ID: T1 - 1' (H700185-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2017	ND	1.91	95.6	2.00	0.678	
Toluene*	<0.050	0.050	01/30/2017	ND	1.92	95.9	2.00	0.381	
Ethylbenzene*	<0.050	0.050	01/30/2017	ND	1.96	98.2	2.00	0.486	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.55	92.6	6.00	0.146	
Total BTEX	<0.300	0.300	01/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/27/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2017	ND	204	102	200	3.84	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	215	108	200	7.32	
Surrogate: 1-Chlorooctane	96.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	105 9	% 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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Received: 01/25/2017 Sampling Date: 01/23/2017

Reported: 01/30/2017 Sampling Type: Soil

Project Name: GUNSLINGER 11 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Angela Cabrera

Project Location: NOT GIVEN

Sample ID: T1 - 2' (H700185-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2017	ND	1.91	95.6	2.00	0.678	
Toluene*	< 0.050	0.050	01/30/2017	ND	1.92	95.9	2.00	0.381	
Ethylbenzene*	< 0.050	0.050	01/30/2017	ND	1.96	98.2	2.00	0.486	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.55	92.6	6.00	0.146	
Total BTEX	<0.300	0.300	01/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/27/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2017	ND	204	102	200	3.84	
DRO >C10-C28	77.8	10.0	01/27/2017	ND	215	108	200	7.32	
Surrogate: 1-Chlorooctane	102 %	6 35-147	,						
Surrogate: 1-Chlorooctadecane	97.2	% 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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Received: 01/25/2017 Sampling Date: 01/23/2017

Reported: 01/30/2017 Sampling Type: Soil

Project Name: GUNSLINGER 11 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Angela Cabrera

Project Location: NOT GIVEN

Sample ID: T1 - 3' (H700185-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2017	ND	1.91	95.6	2.00	0.678	
Toluene*	<0.050	0.050	01/30/2017	ND	1.92	95.9	2.00	0.381	
Ethylbenzene*	<0.050	0.050	01/30/2017	ND	1.96	98.2	2.00	0.486	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.55	92.6	6.00	0.146	
Total BTEX	<0.300	0.300	01/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/27/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	124	10.0	01/27/2017	ND	209	104	200	1.15	QM-07
Surrogate: 1-Chlorooctane	80.9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	98.0	% 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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Received: 01/25/2017 Sampling Date: 01/23/2017

Reported: 01/30/2017 Sampling Type: Soil

Project Name: GUNSLINGER 11 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Angela Cabrera

Project Location: NOT GIVEN

Sample ID: T1 - 4' (H700185-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2017	ND	1.91	95.6	2.00	0.678	
Toluene*	<0.050	0.050	01/30/2017	ND	1.92	95.9	2.00	0.381	
Ethylbenzene*	<0.050	0.050	01/30/2017	ND	1.96	98.2	2.00	0.486	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.55	92.6	6.00	0.146	
Total BTEX	<0.300	0.300	01/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/27/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	209	104	200	1.15	
Surrogate: 1-Chlorooctane	87.4 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	89.2 9	% 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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Received: 01/25/2017 Sampling Date: 01/23/2017

Reported: 01/30/2017 Sampling Type: Soil

Project Name: GUNSLINGER 11 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Angela Cabrera

Project Location: NOT GIVEN

Sample ID: T1 - 5' (H700185-05)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2017	ND	1.91	95.6	2.00	0.678	
Toluene*	< 0.050	0.050	01/30/2017	ND	1.92	95.9	2.00	0.381	
Ethylbenzene*	< 0.050	0.050	01/30/2017	ND	1.96	98.2	2.00	0.486	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.55	92.6	6.00	0.146	
Total BTEX	<0.300	0.300	01/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	01/27/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	209	104	200	1.15	
Surrogate: 1-Chlorooctane	88.7	% 35-147	,						
Surrogate: 1-Chlorooctadecane	101 9	6 28-171							

Sample ID: T1 - 6' (H700185-06)

Chloride, SM4500CI-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	01/27/2017	ND	416	104	400	3.77	

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Received: 01/25/2017 Reported: 01/30/2017

GUNSLINGER 11 #2H

Project Name: Project Number: NONE GIVEN

Project Location: NOT GIVEN Sampling Date: 01/23/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Angela Cabrera

Sample ID: T1 - 8' (H700185-07)

Chloride, SM4500CI-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	01/27/2017	ND	416	104	400	3.77	

Sample ID: T1 - 10' (H700185-08)

Chloride, SM4500CI-B	OCI-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	01/27/2017	ND	416	104	400	3.77	

Sample ID: T1 - 12' (H700185-09)

Chloride, SM4500Cl-B	M4500Cl-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	01/27/2017	ND	416	104	400	3.77	

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 competent 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.



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

Received: 01/25/2017 Sampling Date: 01/23/2017

Reported: 01/30/2017 Sampling Type: Soil

Project Name: GUNSLINGER 11 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Angela Cabrera

Project Location: NOT GIVEN

Sample ID: T2 - 1.5' (H700185-10)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2017	ND	1.91	95.6	2.00	0.678	
Toluene*	< 0.050	0.050	01/30/2017	ND	1.92	95.9	2.00	0.381	
Ethylbenzene*	< 0.050	0.050	01/30/2017	ND	1.96	98.2	2.00	0.486	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.55	92.6	6.00	0.146	
Total BTEX	<0.300	0.300	01/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/27/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	209	104	200	1.15	
Surrogate: 1-Chlorooctane	87.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	98.9	% 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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Received: 01/25/2017 Sampling Date: 01/23/2017

Reported: 01/30/2017 Sampling Type: Soil

Project Name: GUNSLINGER 11 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Angela Cabrera

Project Location: NOT GIVEN

Sample ID: T2 - 2' (H700185-11)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2017	ND	1.91	95.6	2.00	0.678	
Toluene*	<0.050	0.050	01/30/2017	ND	1.92	95.9	2.00	0.381	
Ethylbenzene*	<0.050	0.050	01/30/2017	ND	1.96	98.2	2.00	0.486	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.55	92.6	6.00	0.146	
Total BTEX	<0.300	0.300	01/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/27/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	209	104	200	1.15	
Surrogate: 1-Chlorooctane	86.8	% 35-147	,						
Surrogate: 1-Chlorooctadecane	92.3	% 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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Received: 01/25/2017 Sampling Date: 01/23/2017

Reported: 01/30/2017 Sampling Type: Soil

Project Name: GUNSLINGER 11 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Angela Cabrera

Project Location: NOT GIVEN

Sample ID: T2 - 3' (H700185-12)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2017	ND	1.91	95.6	2.00	0.678	
Toluene*	< 0.050	0.050	01/30/2017	ND	1.92	95.9	2.00	0.381	
Ethylbenzene*	< 0.050	0.050	01/30/2017	ND	1.96	98.2	2.00	0.486	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.55	92.6	6.00	0.146	
Total BTEX	<0.300	0.300	01/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/27/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	209	104	200	1.15	
Surrogate: 1-Chlorooctane	99.3	% 35-147	,						
Surrogate: 1-Chlorooctadecane	100 %	6 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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Received: 01/25/2017 Sampling Date: 01/23/2017

Reported: 01/30/2017 Sampling Type: Soil

Project Name: GUNSLINGER 11 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Angela Cabrera

Project Location: NOT GIVEN

Sample ID: T2 - 4' (H700185-13)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2017	ND	1.91	95.6	2.00	0.678	
Toluene*	< 0.050	0.050	01/30/2017	ND	1.92	95.9	2.00	0.381	
Ethylbenzene*	< 0.050	0.050	01/30/2017	ND	1.96	98.2	2.00	0.486	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.55	92.6	6.00	0.146	
Total BTEX	<0.300	0.300	01/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	73.6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/27/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	209	104	200	1.15	
Surrogate: 1-Chlorooctane	78.5	% 35-147	,						
Surrogate: 1-Chlorooctadecane	92.1	% 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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Received: 01/25/2017 Sampling Date: 01/23/2017

Reported: 01/30/2017 Sampling Type: Soil

Project Name: GUNSLINGER 11 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Angela Cabrera

Project Location: NOT GIVEN

Sample ID: T2 - 5' (H700185-14)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2017	ND	1.91	95.6	2.00	0.678	
Toluene*	<0.050	0.050	01/30/2017	ND	1.92	95.9	2.00	0.381	
Ethylbenzene*	<0.050	0.050	01/30/2017	ND	1.96	98.2	2.00	0.486	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.55	92.6	6.00	0.146	
Total BTEX	<0.300	0.300	01/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/27/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	209	104	200	1.15	
Surrogate: 1-Chlorooctane	86.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	99.2	% 28-171							

Sample ID: T2 - 6' (H700185-15)

Chloride, SM4500Cl-B	mg	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/27/2017	ND	416	104	400	3.77	

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Received: 01/25/2017 Reported: 01/30/2017

Project Name: GUNSLINGER 11 #2H

Project Number: NONE GIVEN NOT GIVEN

Project Location:

Sampling Date: 01/23/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Angela Cabrera

Sample ID: T2 - 8' (H700185-16)

Chloride, SM4500CI-B	4500CI-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/27/2017	ND	416	104	400	3.77	

Sample ID: T2 - 10' (H700185-17)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/27/2017	ND	416	104	400	3.77	

Sample ID: T2 - 12' (H700185-18)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/27/2017	ND	416	104	400	3.77	

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 competent 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.



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

Priority

Project Manager:	: Dakota Neel		-				ANALYSIS RE	REQUEST
	l		7.0. #			-		
Address: 2208	2208 West Main		Company: COG	COG Operating LLC		_		
City: Artesia	State: NM	M Zip 88210		Robert McNeill				
Phone #:	432-215-2783 Fax #:		Address: 60	600 W Illinois				
Project #:	Project Owner:	wner:	City:	Midland				
Project Name: G	Gunslinger 11 #2H		 Z	Zip: 79701				
Project Location:			143	0388		_		
Sampler Name:	DAKOTA NEEL		Fav #-	0000				
FOR LAB LISE ONLY						_		
TOR CHB USE ONLY		MATRIX	PRESERV. SA	SAMPLING				
Lab I.D.	Sample I.D.	AB OR (C)OMP NTAINERS UNDWATER TEWATER	POGE ER: (BASE: COOL ER:			de		
0	T1-1'	# G W S	O'	2:00 PM	≺ B1	< Ch		
9	T1- 2'		1/22/17		< ;	+		
S	T1-3'		1/23/17	-	< >	< >		
bo	T1- 4'		1/23/17		× :	+		
20	T1-5'		1/23/17		×	+		
99	T1- 6'		1/23/17					
EO	T1-8'		1/23/17			×		
B	T1-10'		1/23/17	/17 2:00 PM		×		
70	T1-12'		1/23/17	/17 2:00 PM		×		
EASE NOTE: Liability and Da tyses. All claims including the	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	for any claim arising whether based in contra	ct or fort, shall be limited to the amount	unt paid by the client for the	F	\vdash		
vice. In no event shall Cardin. lates or successors arising ou	service. In no event shall Cardinal be label for incidental or consequential damages, including whole il mailtonia by said received by Cardinal within 30 days after completion of the applicable artificial incidental or consequential damages, including whole il mailston, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is heard from one of the absolute or control than the control of the cont	iii be deemed waved unless made in writing a luding without limitation, business interruptions by Cardinal, regardless of whether such clair	ind received by Cardinal within 30 da , loss of use, or loss of profits incurre m is based incoment of the above of	ys after completion of the a ed by client, its subsidiaries,	pplicable			
Xeminduisiled by:	Date: 125-17	Received By:		Phone Result:	- 1	□ Vac 「	No Add'l Phone #:	

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

Sampler - UPS - Bus - Other:

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY:

RVN DEEPER BENZENE

NO 016

878x > 50 PPM

5,000

PPM.

Delivered By: (Circle One)

Relinquished By:

X

Time: [2:]5 Date: Time:

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes☐ Yes

O No

Add'l Phone #: Add'l Fax #:

dneel2@concho.com

HORIZONS OFFIR RTEXATOH

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:

Privaity

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Collipany Name: COG Operating LLC	5/1/2	3	ANALYSIS REQUEST
Project Manager: Dakota Neel	P.O. #:		
Address: 2208 West Main	Company: co	COG Operating LLC	
City: Artesia State: NM	Zip 88210 Attn:	Robert McNeill	
Phone #: 432-215-2783 Fax #:	Address: 6	600 W Illinois	
Project #: Project	Project Owner: City:	Midland	
Project Name: Gunslinger 11 #2H	State: ⊤X Zip	Zip: 79701	
Project Location:	Phone #: (432) 221-0388	1-0388	
Sampler Name:	Fax#:		
EOD I AR LISE ON V	1 an #.		
	TACOCKY.	SAMPLING	
H100 85-	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME BTEX	Chloride
IO T2-1.5'		2:30 PM X	+
T2- 2'	1/2	2:30 PM X	+
[2 T2-3'	1/2	2:30 PM X	
15 T2-4'	1/2	2:30 PM X	
<i>1</i> Ψ T2-5'	1/2	2:30 PM X	
15 12-6'	1/2	2:30 PM	+
16 T2-8'	1/2		× ;
[7] T2-10'	1/2		× :
18 72-12'	lh lh		×:
PLEASE NOTE: Liability and Damanne Confinate inhiby and aliante and aliante			

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Sample Condition
Cool Intact

Yes Yes
No No

CHECKED BY: (Initials)

RUN DEEPER

BENZENE

Excess 10 pp, BTEXEXCESS HORIZONS FOR BIEX 4 TPH

50 ppm, 4

TPH

5033>x3

5,000 ppm.

Relinquished By:

Time: /2:15 Date:) - 25-17

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes

No No

Add'l Phone #: Add'l Fax #:

dneel2@concho.com

Date: Time:

Received By:

Relinguished By:



April 13, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: GUNSLINGER 11 FED COM #2

Enclosed are the results of analyses for samples received by the laboratory on 04/10/17 8:25.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/10/2017 Sampling Date: 04/05/2017

Reported: 04/13/2017 Sampling Type: Soil

Project Name: GUNSLINGER 11 FED COM #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: SB1 @ 15' (H700940-01)

Chloride, SM4500CI-B	ISOOCI-B mg/kg Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	64.0 16.0		ND	432	108	400	7.14	
Sample ID: SB1 @ 17' (H7	'00940-0 2)								
Chloride, SM4500Cl-B	e, SM4500Cl-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/11/2017	ND	432	108	400	7.14	
Sample ID: NORTH SAMP Chloride, SM4500Cl-B	Analyze	d By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/11/2017	ND	432	108	400	7.14	
Sample ID: EAST SAMPLE	(H700940-04	!)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
	mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/10/2017 Sampling Date: 04/05/2017

Reported: 04/13/2017 Sampling Type: Soil

Project Name: GUNSLINGER 11 FED COM #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: WEST SAMPLE (H700940-05)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 64.0 16.0 04/11/2017 ND 432 108 400 7.14

Sample ID: SOUTH SAMPLE (H700940-06)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/11/2017	ND	432	108	400	7.14	

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 whistoever 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, saffiliates 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.

Celeg D. Freene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476		
company Name: BBC International, Inc.	BILLTO	ANALYSIS REQUEST
roject Manager: Cliff Brunson	P.O. #:	
Address: P.O. Box 805	Company:	
city: Hobbs State: NM Zip: 88241	1 Attn:	
5-397-6388 F	Address:	
Project #: Project Owner: 20	City:	
roject Name:	State: Zip:	
roject Location: GUNS/INGER // FED COM# 2	Phone #:	
Draw Heren	Fax #:	
	MATRIX PRESERV. SAMPLING	
(G)RAB OR (C)OME # CONTAINERS GROUNDWATER	WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: TIME	
SBI @ 15. 61	N 41517 170	
3 NOWTH Sample CI	1 000 11 100	
1 2 miles 1197 5	1 051 LIST 1	
6 SOUTH Groupell 61	- M.1 171.50 A	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
claim arisi emed waiv vithout limit	her based in contract or tort, shall be limited to the amount paid by the client for the a made in writing and received by Cardinal within 30 days after completion of the applicable siness interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, siness interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	
Relinquished By: Manual Manual Time:	ved By: Phone Result: □ Yes Fax Result: □ Yes REMARKS:	es □ No Add'l Phone #: es □ No Add'l Fax #:
Relinquished By: Received By: Time: 7.25	ra Ola	
(Circle One)	Sample Condition CHECKED BY: Cool Intact (Initials)	
Sampler - UPS - Bus - Other: -13.5 &	HYes HYes T. D. #78	

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

Revised August 8, 2011
Submit 1 Copy to appropriate District Office in

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

						OPERA	OR		🔀 Initia	l Report		Final F	Report
Name of Co	mpany:	COC	Operati	ng LLC		Contact:		Rol	bert McNe	ill			
Address:		t Illinois Ave	nue, Mic	land TX 79701	7	relephone N	lo.	432	2-683-7443	3			
Facility Nan	ne: Gunsli	nger 11 Fede	ral Com	#002	F	acility Typ	e: Tank Batte	ry					
Surface Own	ner:	Federal		Mineral O	wner:								
				'				<u>' </u>					
,			_			OF REI			Т				
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the		Vest Line		Cou	_	
K	11	20S	33E	2380		South	1675		Vest		Le	<u>a</u>	
				Latitude 32.5	869484	Longitud	le 103.6371307						
				NAT	URE (OF RELI	EASE						
Type of Relea	ase:					Volume of			Volume R	ecovered:			
		Oil					10 bbls	,		8 bt			
Source of Rel	ease:			our of Occurrence			Hour of Dis						
Was Immedia	4- NI-4: C	Tank	<u> </u>				y 8, 2017 11:20 a	m	Ja	nuary 8, 20	17 11	:20 am	-
was immedia	ne Notice C		Yes 🗵	No 🛛 Not Re	quired	If YES, To	wnom?						
		By Who	nm?			Date and H	lour:						
Was a Watero	ourse Read						lume Impacting t	he Wate	ercourse.				
☐ Yes ⊠ No													
If a Watercourse was Impacted, Describe Fully.*										\dashv			
n a materiousse was impacted, Describe i dity.													
Describe Cause of Problem and Remedial Action Taken.* The release was due to a hole in the tank. Transferred oil into another tank, repair or replace the tank.													
The release v	vas due to a	i hole in the ta	nk. Trans	erred oil into ano	ther tank	c, repair or re	place the tank.						
Describe Are	Affected	and Cleanup A	Action Tak	en *									\dashv
					as dispa	tched to rem	ove all freestandir	ng fluid:	s. Concho w	ill have the	spill	area sami	pled
							rk plan to the NM						·
remediation a	ctivities.												
11. 1	C. A d !		1		11	1 C		1	1.41	NIN (. 1 1	\rightarrow
							knowledge and used perform correct						
							arked as "Final R						
							on that pose a thre						
or the enviror	iment. In a	ddition, NMC	CD accep				e the operator of t						
federal, state,	or local la	ws and/or regu	llations.										
Signature: 1	elrece	2 Hosk					OIL CONS	SERV	'ATION	<u>DIVISIC</u>	<u>)N</u>		
Printed Name	2:	Rebecca	Haskell			Approved by	Environmental S	pecialis	t:				
Title:		Senior HS	SE Coordi	nator		Approval Dat	te:		Expiration I	Date:			
								Ċ.					
E-mail Addre	ess:	rhaskell@	concho.c	<u>om</u>		Conditions of	f Approval:			Attached			

Date: January 10, 2017 Phone: 43

* Attach Additional Sheets If Necessary