Closure Report

	Site Description
Site Name:	SRO State Com #48H
Company:	COG Operating LLC
Legal Description:	U/L B, Section 7, T26S, R28E
County:	Eddy County, NM
GPS Coordinates:	N 32.06424° W-104.11165°

	Release Data
Date of Release:	04/21/2017
Type of Release:	Produced water
Source of Release:	Compromised 4" poly line
Volume of Release:	40 bbls
Volume Recovered:	0 bbls

	Remediatio	n Specifications
Remediation Parameters:	SP5/SB5, T-1, ar excavation, back the area near T-3	as of SP1/SB1, SP2/SB2, SP3/SB3, SP4/SB4, and T-2 to a depth of 4 feet, then place a liner in the fill with caliche, then top off with topsoil. Excavate to a depth of 1 foot. The area of T-4 will not on. Backfill the site with clean soil.
Remediation Activities:	03/16/2018 to 0	4/13/2018
Plan Sent to OCD:	11/22/2017	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	02/22/2018	Email from Mike Bratcher to Cliff Brunson
Plan Sent to SLO:	11/22/2017	Email from Cliff Brunson to Mark Naranjo
SLO Approval of Plan:	03/19/2018	Email from Mark Naranjo to Cliff Brunson

	Supporting Documentation
Initial C-141	Signed 04/22/2017
Final C-141	Signed 04/26/2018
Site Diagram	June 2017
Groundwater Plot	<50°
TOPO Maps	June 2017
Lab Summary	05/03/2017, 08/25/2017-08/28/2017, and 10/10/2017
Lab Analysis	05/03/2017, 08/25/2017-08/28/2017, and 10/10/2017
Correspondence	Request and approval of remediation plan via email

Request for Closure

Based on the completion of the remediation plan, BBC International, Inc. requests closure approval from NMOCD.

Cliff Brunson, President, BBC International, Inc.

04/30/2018

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

NM OIL CONSERVATION

State of New Mexico

ARTESIA DISTRICT

Form C-141 Revised August 8, 2011

Energy Minerals and Natural Resources Oil Conservation Division

APR 2 4 2017
Submit I Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 South St. Francis Dr.

1220 S. St. Fran	cis Dr., Santa Fe, N	NM 87505		Sa	inta Fe	, NM 875	05	ECEIA	EU			
]	Rele	ase Notific	eation	and Co	rrective A	ction		San Assertion		
NABI"	1115423	359				OPERAT	ror	×	Initial	Report	☐ Final I	Report
	mpany: COG	Operating I		OGRID# [229		Contact:		The second section is a second	rt McNei			
Address:				and TX 79701		Telephone N			83-7443			
Facility Nar	me: Si	RO STATE	COM	#48H		Facility Typ	e:	Tank	Battery			
Surface Ow	ner:	State		Mineral C)wner:				API No.	30-0	15-41779	
	***	Cathir		LOCA	ATION	OF REI	LEASE					
Unit Letter			ange	Feet from the	North/	South Line	Feet from the	East/We			County	
В	07	26S 2	28E]	190'	Marina Salar	North	2080*	Eas	st		Eddy	
			I	Latitude 32.06	3797	Longitu	ide 104.124832	2				
				NAT	TURE	OF REL						
Type of Rele			2007			Volume of			Volume	Recovered:	12-1	
Source of Re		roduced Wa	iter			Date and F	40bbls four of Occurrence	e.	Date and	0bb Hour of Dis		
Source of Re	ireuse,	4" Plotline	:				21/2017 6:00 pn	577.53		04/21/2017		
Was Immedi	ate Notice Given	The second second second		No El No B		If YES, To		MNO	CD / Ma	Canana SI (<u> </u>	
By Whom?	Do	bert Grubbs		No Not R	equirea	Date and F				Groves - SLO	nail #8:	64.0
	course Reached?		<u> </u>				olume Impacting t	he Waterc	ourse.	ille of this er	***	- D-F-C
		□ Y	es 🛭	No		5						
If a Watercon	urse was Impacte	d, Describe	Fully.*						•	***************************************		
Describe Car	use of Problem a	nd Remedial	Action	Taken.*								-
					5 50	81 0 80	10 100 100 10					
A 4" polylin	ie had a split due	to unknown	reason	. Cut out the bad	section	and refused t	he 4" poly line.					
Describe Are	ea Affected and (Cleanup Acti	on Tak	en.*			nomino man					
T1			m	CCO1 1	001	.L!!! L	111 -12					
							e the spill site sam rior to any signific				ntamination	irom
I haraby cort	if that the infor	mation diver	above	is true and some	nlete to ti	he best of my	knowledge and u	nderstand	that nurs	ant to NMO	CD rules and	.
regulations a	all operators are i	equired to re	port an	d/or file certain	release n	otifications a	nd perform correc	tive action	ns for rele	ases which n	ay endanger	â l
public health	n or the environm	ent. The acc	ceptanc	e of a C-141 rep	ort by the	e NMOCD π	narked as "Final R	eport" doe	es not relie	ve the opera	tor of liabilit	y
							ion that pose a thr					alth
	e, or local laws a			tance of a C-141	report a	oes not rene	re the operator of	responsion	ility loi co	inpliance wi	in any other	
Signature:	_	Zen	سر ــ	1 1			OIL CON	SERVA	TION	DIVISIO	4 0	
Signature.								/	A	10 V	///	\mathcal{Q}_{i}
Printed Nam	ie:	Robert G	rubbs Ji	r. ′		Approved by	Environmental S	pecialist:)W/	DIV	$V \cup$	\sim
Title:	Sanio	r HSE Coord	linator			Approval Da	A 25 1	7 5	epiration E	ate: NI	A	_ (0.0000
Title.	30110	1135 0000	attator			0.0		1 67	phanolit	are.		
E-mail Addr	ress:	rgrubbs@co	ncho.co	m		Conditions of	of Approval:	1 - 1		Attached	X	
Date:	April 22, 2017	Phone	e: 4:	32-683-7443		SCI	2 attac	neo			7	
	itional Sheets I					- 00				25	20 11	~~
										LX	Y-418	34

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 4/24/17 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number <u>320-4183</u> has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 5/24/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring
 wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit
 either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should
 not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location
 and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

Weaver, Crystal, EMNRD

From: Robert Grubbs <RGrubbs@concho.com>

Sent: Saturday, April 22, 2017 8:54 AM

To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; 'agroves@slo.state.nm.us'

Subject: (immediate Notification & Initial C-141) SRO State Com #048 4/21/17 (30-015-41779)

Attachments: SRO State Com #48 (FL) Initial.pdf

MR. BRATCHER / Ms. GROVES,

ATTACHED IS AN IMMEDIATE NOTIFICATION & C-141 FOR YOUR CONSIDERATION. IF YOU HAVE ANY ADDITIONAL QUESTIONS PLEASE FEEL FREE TO CONTACT ME.

THANK YOU,

ROBERT GRUBBS JR.
SR. HSE COORDINATOR
432.683.7443 (MAIN)
432.818.2369 (DIRECT)
432.661.6601 (CELL)
432.221.0892 (FAX)
RGRUBBS@CONCHO.COM
MAILING ADDRESS:
ONE CONCHO CENTER
600 W. ILLINOIS AVENUE
MIDLAND, TEXAS 79701

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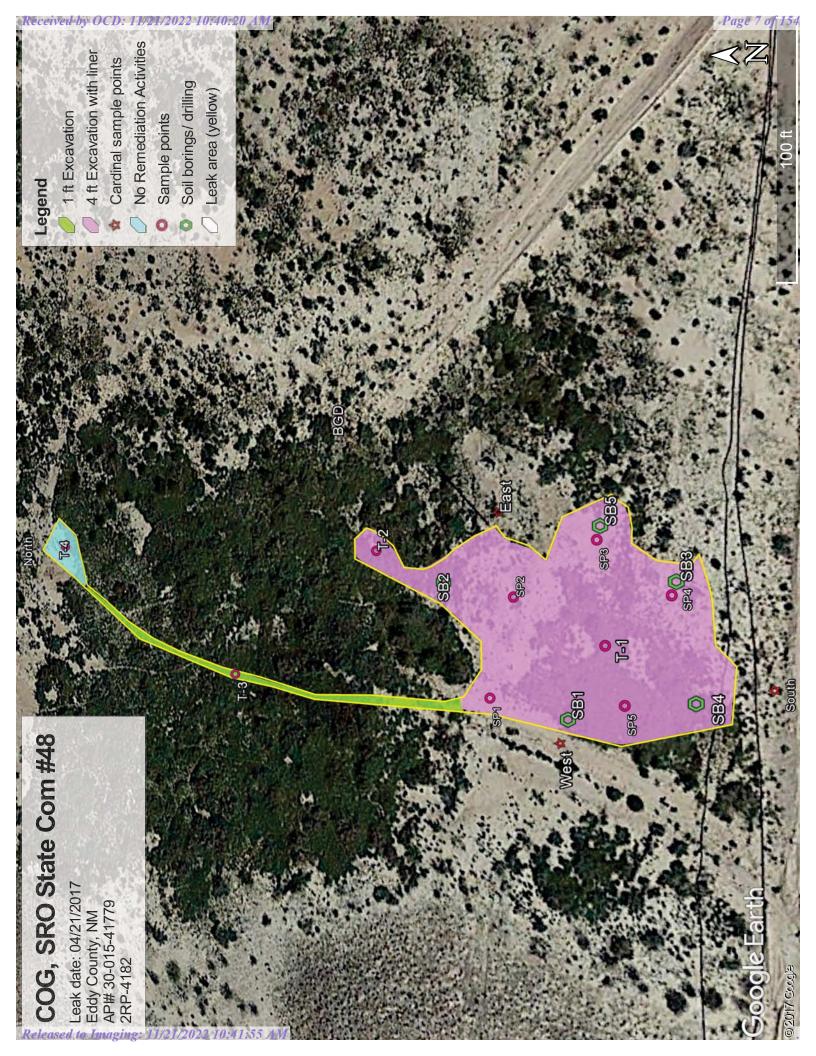
District I 1625 N. French Dr., Hobbs, NM 88240 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised April 3, 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

			Rele	ease Notific	atio	n and Co	rrective A	ction	1			
						OPERA?	ΓOR		☐ Initia	al Report	\boxtimes	Final Report
Name of Co							lobert McNeill			*		
				and, TX 79701	\longrightarrow	Telephone N						
Facility Nar	ne SRO	State Com #	748H			Facility Typ	e Tank Batte	ry				
Surface Ow	ner Stat	e		Mineral C)wner				API No	. 30-015	-4177	9
				LOCA	TIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/\	West Line	County		
В	07	26S	28E	190		North	2080		East	Eddy Cou	nty, NN	1
			Latit	ude <u>N 32.06424</u>	<u>°</u> 1	Longitude <u>V</u>	<u>/-104.11165°</u> N	NAD83	3			
	1000			NAT	URE	OF REL	EASE					
Type of Rele		iced water		*		Volume of				Recovered	0 bbls	
Source of Re	lease 4" j	olotline					Iour of Occurrence 7 @ 6:00 pm	e		Hour of Dis 17 @ 6:00 p		
Was Immedia	ate Notice (Yes [No Not Re	equired	If YES, To Mike Brate	Whom? cher, NMOCD; A	mber G	roves, NMS	SLO	•	
By Whom?							iour 04/22/2013					
Was a Water	course Read	:hed?	Yes ⊠] No		If YES, Vo	olume Impacting t	he Wat	ercourse.			
If a Watercon	ırse was Im	pacted, Descr	ibe Fully.	*		1			535			
N/A												
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.*								
A 4" poly lin	e had a spli	t due to unkno	own reason	n. The bad section	n was c	ut out.						
Describe Are	a Affected	and Cleanup A	Action Tal	ken.*								
Remediation Mark Naranj	was comple o of NMSL	eted in accord O via email o	ance with n 03/19/20	the remediation p)18.	olan app	roved by Mik	e site was delinea e Bratcher of NM	OCD vi	ia email on	02/22/2018	and ap	proved by
regulations a public health should their or or the enviro	II operators or the envi operations h nment. In a	are required to ronment. The save failed to	o report as acceptant adequately OCD accep	nd/or file certain r ce of a C-141 report investigate and r	release r ort by th remedia	notifications a ne NMOCD m te contaminati	knowledge and u nd perform correct arked as "Final Ri on that pose a thru the operator of a	tive act eport" o eat to g	ions for rel- loes not rel- round water	eases which ieve the ope r, surface wa	may er rator of iter, hu	ndanger Hiability man health
Signature: /		a Has ca Haskell	hell			Approved by	OIL CONS	-		DIVISIO) Jultan		lall
	or HSE Co	-				Approval Da	te: 11/21/202	2	Expiration	Date: N/A		
E-mail Addr		skell@concho	o.com			Conditions o			9			
Date: April	26, 2018		Phone:	432-683-7443			none			Attached	Ш	
* Attach Addi		ets If Necess		.52 005-19-15	100					-//		



COG, SRO State Com #48H

Sample points taken by BBC, hand auger

SP1, N 32.06449 W -104.11170

SP2, N 32.06446 W-104.11156

SP3, N 32.06436 W-104.11148

SP4, N 32.06428 W-104.11155

SP5, N 32.06433 W-104.11169

SOUTH, N 32.06417 W-104.11116

Sample points taken by COG, hand auger

T-1, N 32.06435 W-104.11162

T-2, N 32.06464 W-104.11149

T-3, N 32.06486 W-104.11169

T-4, N 32.06516 W-104.11149

NORTH, N 32.06523 W-104.11150

EAST, N 32.06448 W-104.11144

WEST, N 32.06441 W-104.11175

BACKGROUND, N 32.06469 W-104.11130

Soil borings, drilling

SB1, N 32.06439 W-104.11172

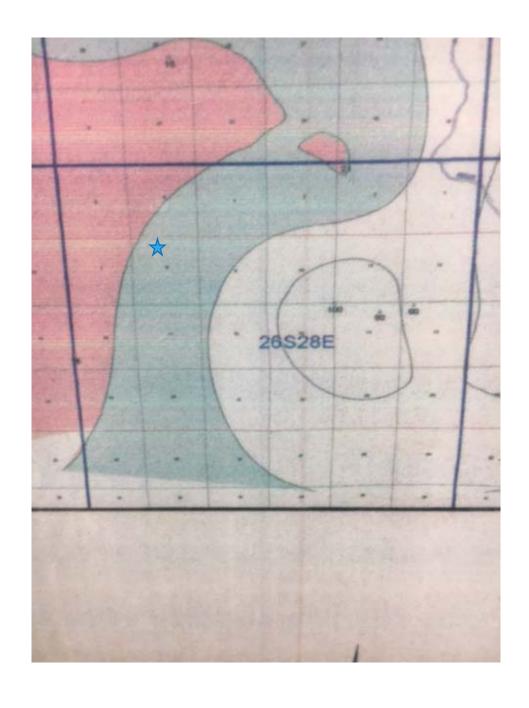
SB2, N 32.06455 W-104.11154

SB3, N 32.06427 W-104.11153

SB4, N 32.06425 W-104.11168

SB5, N 32.06436 W-104.11146

COG, SRO State Com #48H U/L C, Section 8, T26S, R28E Groundwater: <50'





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE)

closed) (quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD											
		Sub-		Q	Q								Water
POD Number	Code	basin	County	64 16	4	Sec	Tws	Rng	X	Y	DistanceDept	hWellDepthV	Vater Column
C 02478		CUB	ED	2	1	05	26S	28E	583848	3549325*	1619	100	

Average Depth to Water:

Minimum Depth:

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 583853 **Northing (Y):** 3547706 **Radius:** 1700

*UTM location was derived from PLSS - see Help

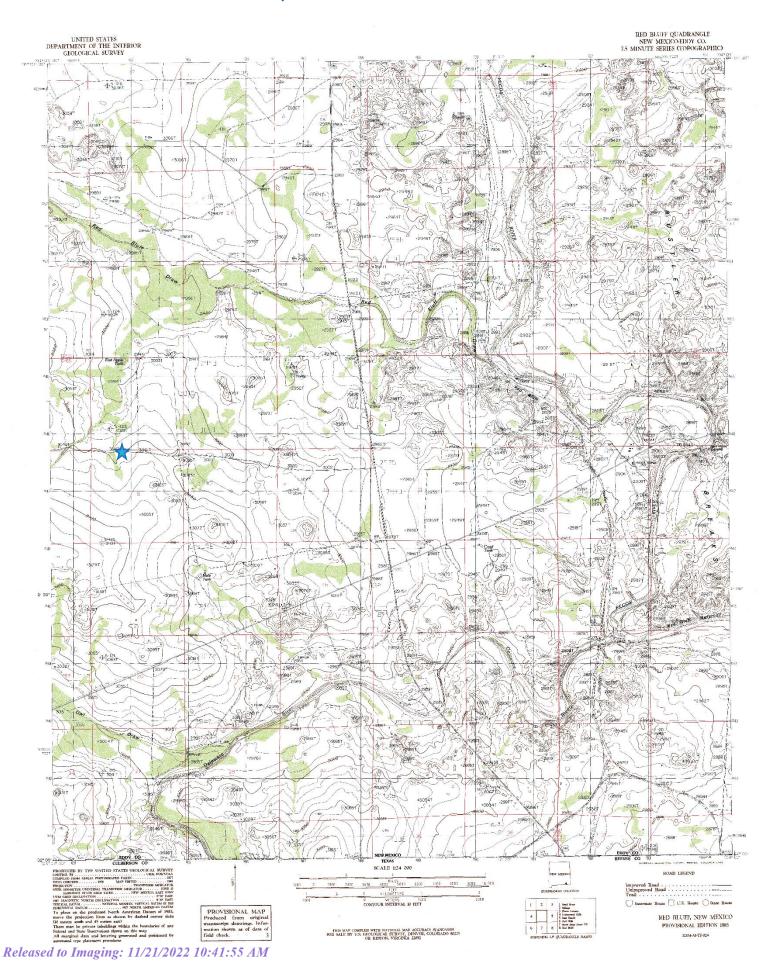
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/21/17 10:44 AM

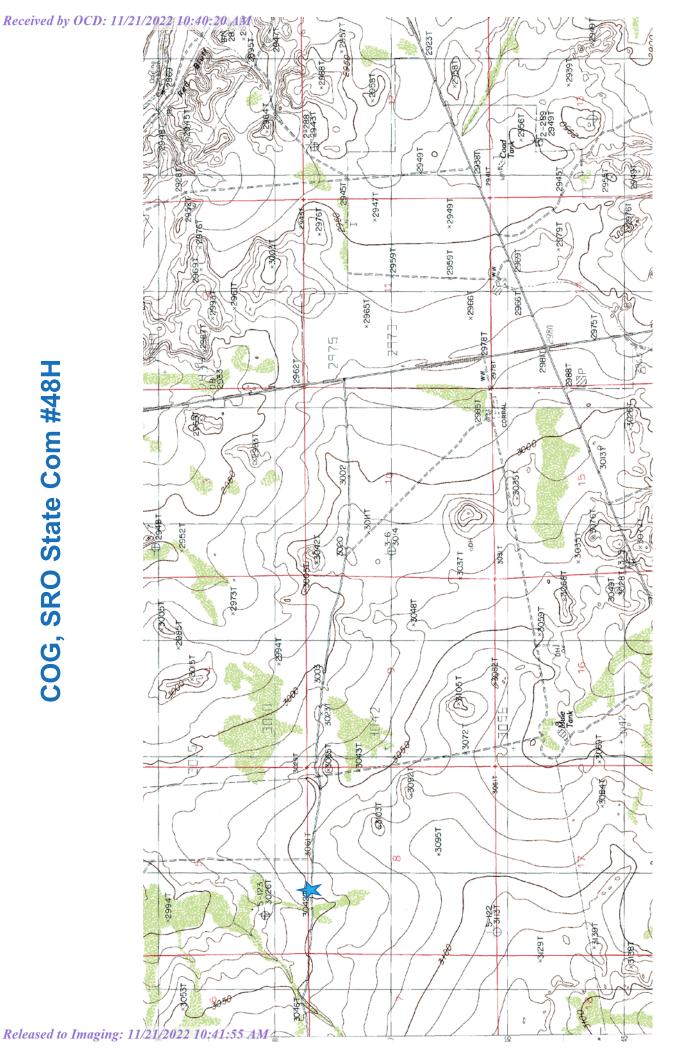
WATER COLUMN/ AVERAGE DEPTH TO WATER

0	Public Land Survey System (PLSS) Q64: Q16: NE Q4: NW Sec: 08 Tws: 26S Rng: 28E
0	State Plane Coordinate System - NAD27 X: 0 ft Y: 0 ft Zone:
0	State Plane Coordinate System - NAD83 X: 0 ft Y: 0 ft Zone:
0	Degrees/Minutes/Seconds Longitude (X): Degrees: 0 ° Minutes: 0 ' Seconds: 0 " Latitude (Y): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "
0	UTM - NAD27 Easting (X): 0 mtrs Northing (Y): 0 mtrs Zone:
	All Conversion Results are displayed as NAD 1983 UTM Zone 13 Easting (X): 583853.0 mtrs Northing (Y): 3547706.0 mtrs ~~ Please keep screen open to copy UTM values for Reports. ~~

COG, SRO State Com #48H



COG, SRO State Com #48H



Laboratory Analytical Results Summary SRO State Com #48H

Method Method Date	mg/kg <0.00935 <0.00935 <0.00935 <0.00935 <0.00935 <0.00935 <0.00936 <0.00938 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388 <0.00388	mg/kg <0.00337 0.0168 0.0379 0.0379 0.00548 0.00667 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <10.0380 <10.0080 <10.0080 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <10.00380 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <10.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0	10.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	กาล	туа пуа пуа пуа пуа пуа пуа пуа пуа пуа п	15.90 mg/kg n/a	mg/kg	104	17.9	10	та ти та ти та ти та ти та ти та ти	пла
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Sample Date		0.001689 0.001689 0.001689 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.001680 0.0016800 0.0016800 0.0016800 0.0016800 0.0016800 0.0016800 0.0016800 0.00168000 0.00168000000000000000000000000000000000	16800 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8	14600 178 178 178 178 178 178 178 178 178 178	178 178 179 179 179 179 179 179 179 179 179 179	10.40	17.4	1290 1730 1730 1730 1730 1730 1730 1730 173	10.48	10.4	17.8 98 18.8 17.9 17.8 17.9 17.9 17.9 17.9 17.9 17.9 17.9 17.9	10.4
Sample Date		0.00548 0.0766 12200 <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 0.00567 <0.00380 <0.00760 <0.00380 <0.00760 <0.00380 <0.00760 <0.00380 <0.00760 <0.00380 <0.00760 <0.00380 <0.00760 <0.00380 <0.00760 <0.00380 <0.00760 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00380 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <0.00880 <	16800	14600	14800 178 178 178 178 178 178 178 178 178 178	15400	10.4	1290 1290 1290 109 109 109 109 10	10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.4	10.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	17.8 98 98 98 98 98 98 98 98 98 98 98 98 98	163 163 163 172 @ 24* 172 @ 24* 174 174 174 174 174 174 174 174 174 174
Sample		12.00 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 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Date		8937 MgKq 0.00860 0.00860 0.00860 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760 0.00760	6/3/17 mg/kg n/a n/a n/a n/a n/a n/a n/a n/	6/3/17 mg/kg n/a n/a n/a n/a n/a n/a n/a n/	89лт Па Па Па Па Па Па Па Па Па Па	83377 mg/kg n/a	10.00 mg/kg mg/kg n/a	108 mg/kg mg/kg mg/kg mg/kg m/a	1350 178 178 178 178 178 178 178 178 1350 178 178	10 mg/kg mg/kg mg/kg m/a mg/kg m/a	63/17 10/8 10/8 10/8 10/8 10/8 10/8 10/8 10/8 10/8 10/8 10/8	6/3/17 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/
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		 -0.00380 <0.00760 <0.00380 0.00380 <15.0 <15.0 <15.0 	11/8 11/8 11/8 11/8 11/8 11/8 11/8 11/8	11/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3	17/a 17/a 17/a 17/a 13900 17/a 17/a 17/a 17/a 17/a 17/a 17/a	1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3	n/a n/a n/a n/a 9170 n/a n/a n/a	1/a	1/a	10/a 10/a 10/a 10/a 10/a 10/a 10/a 10/a	n/a	n/a
		 C0.00760 C0.00380 C0.00380 C0.00567 11900 <15.0 <15.0 <15.0 	10/a 10/a 10/a 10/a 10/a 10/a 10/a 10/a	17.8 17.8 17.8 17.8 17.8 17.8 17.8 17.8	178 178 17900 178 178 178 178 178 178 178 178 178 178	1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3	n/a n/a n/a 9170 n/a n/a n/a 13@ 8*	1/8	1/3 1/350 1/350 1/350 1/3	17/a 17/a 17/a 6.48 17/a 17/a 17/a	10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2
		 C.U.OV780 C.0.00380 C.0.00367 T1900 <15.0 <15.0 <15.0 	11/4 11/4 11/4 11/4 11/4 11/4 11/4 11/4	11/a 11/a 11/a 11/a 11/a 11/a 11/a 11/a	178 178 179 179 179 179 179 179 179 179 179 179	17.3 @ 6.	17.8	1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8	1/a 1/a 1/350 1/a 1/a 1/a	1.0a	1,74 1,74 1,74 1,74 1,74 1,74 1,74	11/a 11/a 11/a 11/a 11/a 11/a 11/a 11/a
	++++++	 C.U.0330 C.00380 C.00567 T1900 <15.0 <15.0 	11/4 11/4 11/4 11/4 11/4 11/4 11/4	11/a 11/a 11/a 11/a 11/a 11/a 11/a 11/a	174 17900 174 13900 174 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4* 173@4*	1/3 (1/3 (1/3 (1/3 (1/3 (1/3 (1/3 (1/3 (1/a 1/a 9170 1/a 1/a 1/a 1/a	1/8 1/8 1/8 1/8 1/8 1/8 1/8	1/a 1/350 1/350 1/a 1/a	6.48	1/a 1/a 1/a 1/a 1/a	17.8 17.8 17.8 17.8 17.8 17.8 17.8 17.8
		 COU 00380 COU 00380 T1900 COU COU <!--</td--><td>0720 0720 0720 078 078</td><td>1/a 1/a 1/a 1/a 1/a 1/a 1/a 1/a 1/a 1/a</td><td>13900 13900 17/a 17/a 17/3 173@4*</td><td>13300 1/3 1/3 11/3 11/3 11/3 11/3</td><td>n/a n/a n/a n/a 13@8°</td><td>n/a n/a 1180 n/a n/a</td><td>1350 1350 1/a 1/a 1/a</td><td>6.48 0.48 0.48 0.7a 0.7a</td><td>n/a 1/a 1/a 1/a 1/a</td><td>n/a n/a <49.7 n/a n/a n/a</td>	0720 0720 0720 078 078	1/a	13900 13900 17/a 17/a 17/3 173@4*	13300 1/3 1/3 11/3 11/3 11/3 11/3	n/a n/a n/a n/a 13@8°	n/a n/a 1180 n/a n/a	1350 1350 1/a 1/a 1/a	6.48 0.48 0.48 0.7a 0.7a	n/a 1/a 1/a 1/a 1/a	n/a n/a <49.7 n/a n/a n/a
EPA 8021B		0.00567 11900 <15.0 <15.0 <15.0	17/8 9720 17/8 17/8 17/8	8500 N/a n/a n/a	13900 17/a 17/a 17/a 17/a 13.@ 4*	13300 1/3 11/3 11/3 17/3 17/3 17/3	n/a 9170 n/a n/a n/a 13@8'	1180 1780 17/a 17/a 17/a	1350 1350 11/a 11/a	0.48 6.48 n/a n/a n/a	//a /25.0 //a //a //a	0.49.7 0.7 0.7 0.7 0.7 0.7 0.7
	9730 <14.9 <14.9 <14.9 T3@	415.0 <15.0 <15.0 <15.0	9720 n/a n/a n/a	n/a n/a n/a	13900 17/a 17/a 17/a 13.@ 4*	13300 n/a n/a T3 @ 6"	0170 n/a n/a T3@8'	1180 n/a n/a	1350 n/a n/a	6.48 n/a n/a n/a	~25.0 n/a n/a	~49.7 n/a n/a
	<14.9 <14.9 <14.9 T3 @	<15.0 <15.0 <15.0	n/a n/a n/a	n/a n/a n/a	η/a η/a η/a T3 @ 4'	n/a n/a n/a T3 @ 6'	n/a n/a n/a T3@8'	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a
GRO, C6-C10 SW8015 Mod	<14.9 <14.9 T3 @	<15.0	n/a n/a	n/a n/a	n/a n/a T3 @ 4'	n/a n/a T3@6'	n/a n/a T3@8'	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
5 Mod	<14.9 T3 @	<15.0	n/a	n/a	n/a T3@4'	n/a T3@6'	n/a T3@8'	n/a	n/a	n/a	n/a	n/a
SW8015 Mod	T3 @		600	12 @ 2.	T3 @ 4'	T3 @ 6'	T3@8'					
	T3 @		000	10 %	T3 @ 4'	T3 @ 6'	T3@8'					
Sample	TOTAL PROPERTY.	T3 @ 1.	13@2.	2 (0)	5/3/17			T3 @ 10'	T3@17	T3 @ 22'		
Method	5/3/17	5/3/17	5/3/17	5/3/17		5/3/17	5/3/17	5/3/17	5/3/17	5/3/17		
	ma/Ka	ma/Ka	ma/Ka	ma/Ka	ma/Ka	ma/Ka	ma/Ka	ma/Ka	ma/Ka	ma/Ka		
EPA 8021B	6	<0.00201	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	+	<0.00201	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	+	<0.00001	6/0	6/2	e/u	e/u	6/0	6/0	z /c	6/2		
	+	<0.0020	e/u	z /a	s /u	s /c	e/u	p/c	z /c	s e/c		
ED A 8021B	+	10.000	2 0	200	2,0	5 (2	2/2	5 0	2 6	2 0		
	+	-0.00201	11/4	11/4	IVa	n -/-	11/4	11/4	1/2	11/4		
Total barry FDA 6021B	-	<0.00201	1/3	1/9	ı/a	וומ	11/2	1/9	1/4	11/2		
	-	<0.0020 I	II/a	11/3	IVa	1/a	II/a	1/a	IV3	11/3		
	_	649	23	1130	<24.9	<24.9	<24.9	<24.9	209	209		
GRU, Ce-C10 SW8015 Mod	0.615	0.615	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	132	V 15.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	761	713.0	וומ	<u> </u>	2	מ	ומ	ווא	רמ	וומ		
Ę	T4@		(; ();	0		()				
Sample	SURFACE	14 @ 1	4 @ 2	14 @ 3	14 @ 4	14 @ 6	14 @ 11	14 @ 16				
Method Date	5/3/17	5/3/17	5/3/17	5/3/17	5/3/17	5/3/17	5/3/17	5/3/17				
	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg				
EPA 8021B	<0.00199	<0.00198	n/a	n/a	n/a	n/a	n/a	n/a				
		<0.00198	n/a	n/a	n/a	n/a	n/a	n/a				
Ethylbenzene EPA 8021B	_	<0.00198	n/a	n/a	n/a	n/a	n/a	n/a				
EPA 8021B	-	<0.00397	n/a	n/a	n/a	n/a	n/a	n/a				
	+	<0.00198	n/a	n/a	n/a	n/a	n/a	n/a				
	+	<0.00198	e/u	n/a	e/u	e/u	n/a	e/u	1			
	+	<0.00198	s/u	s/u	s/u	s/u	s/u	s/u	1			
0.1	37.2	<48.9	2.12	<49.5	<24.6	7.83	14.8	271				
	<150	<15.0	a/u	n/a	n/a	e/u	e/u	e/u				
5 Mod	<15.0	<15.0	e/u	n/a	n/a	e/u	e/u	n/a	ı			
Total TPH SW8015 Mod	<15.0	<15.0	s/u	p/u	: 'u	s/u	e/u	e/u				

		Sample	Background @ 5'	Background Background Background @ 5' @ 10' @ 15'	Background @ 15'
Analyte	Method	Date	5/3/17	5/3/17	5/3/17
			mg/Kg	mg/Kg	mg/Kg
Chloride	EPA300/300.1		<49.0	<24.4	<24.6
		Sample	North @	North @ 1.	
			Surface)	
Analyte	Method	Date	5/3/17	5/3/17	
			mg/Kg	mg/Kg	
Benzene	EPA 8021B		68800'0>	<0.00201	
Toluene	EPA 8021B		60:00:0>	<0.00201	
Ethylbenzene EPA 8021B	EPA 8021B		<0.00339	<0.00201	
m,p-Xylenes	EPA 8021B		8/900.0>	<0.00402	
o-Xylene	EPA 8021B		60:00:0>	<0.00201	
Total Xylenes EPA 8021B	EPA 8021B		68800.0>	<0.00201	
Total BTEX	EPA 8021B		60:00:0>	<0.00201	
Chloride	EPA300/300.1		13.7	<4.93	
GRO, C6-C10 SW8015 Mod	SW8015 Mod		<15.0	<15.0	
DRO, C10-C28 SW8015 Mod	SW8015 Mod		<15.0	<15.0	
Total TPH	SW8015 Mod		<15.0	<15.0	

		Sample	East @ Surface	East @ 1'
Analyte	Method	Date	5/3/17	5/3/17
			mg/Kg	gy/gm
Benzene	EPA 8021B		<0.00200	<0.00202
Toluene	EPA 8021B		<0.00200	<0.00202
Ethylbenzene	EPA 8021B		<0.00200	<0.00202
m,p-Xylenes	EPA 8021B		66800'0>	<0.00404
o-Xylene	EPA 8021B		<0.00200	<0.00202
Total Xylenes	EPA 8021B		<0.00200	<0.00202
Total BTEX	EPA 8021B		<0.00200	<0.00202
Chloride	EPA300/300.1		20	6'9
GRO, C6-C10 SW8015 Mod	SW8015 Mod		<15.0	<15.0
DRO, C10-C28 SW8015 Mod	SW8015 Mod		<15.0	<15.0
Total TPH	SW8015 Mod		<15.0	<15.0

		Sample	West @ Surface	West @ 1'
Analyte	Method	Date	5/3/17	5/3/17
			mg/Kg	mg/Kg
Benzene	EPA 8021B		<0.00199	<0.00200
Toluene	EPA 8021B		<0.00199	<0.00200
Ethylbenzene EPA 8021B	EPA 8021B		<0.00199	0.00238
m,p-Xylenes	EPA 8021B		<0.00398	<0.00399
o-Xylene	EPA 8021B		<0.00199	<0.00200
Total Xylenes EPA 8021B	EPA 8021B		<0.00199	<0.00200
Total BTEX	EPA 8021B		<0.00199	0.00238
Chloride	EPA300/300.1		26.8	<4.99
GRO, C6-C10 SW8015 Mod	SW8015 Mod		<15.0	<15.0
DRO, C10-C28 SW8015 Mod	SW8015 Mod		<15.0	<15.0
Total TPH	SW8015 Mod		<15.0	<15.0

Laboratory Analytical Results Summary SRO State Com #48H

16'	SP1 @ 18'			Sample	SOUTH @ SURFACE
	8/25/17	Analyte	Method	Date	8/28/17
g	mg/Kg				mg/Kg
	n/a	Benzene	BTEX 8021B		<0.050
	n/a	Toluene	BTEX 8021B		<0.050
	n/a	Ethylbenzene	BTEX 8021B		<0.050
	n/a	Total Xylenes	BTEX 8021B		<0.150
	n/a	Total BTEX	BTEX 8021B		<0.300
	5920	Chloride	SM4500CI-B		32
	n/a	GRO	TPH 8015M		<10.0
	n/a	DRO	TPH 8015M		<10.0
	n/a	EXT DRO	TPH 8015M		<10.0

		Sample	SP1 @ 1.	SP1@3'	SP1 @ 6.	SP1@9'	SP1 @ 12'	SP1 @ 16'	SP1 @ 18'
Analyte	Method	Date	8/25/17	8/25/17	8/25/17	8/25/17	8/25/17	8/25/17	8/25/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	u/a	n/a	u/a	u/a	u/a
Total Xylenes BTEX 8021B	BTEX 8021B		<0.150	n/a	u/a	n/a	u/a	u/a	u/a
Total BTEX	BTEX 8021B		<0.300	n/a	u/a	n/a	u/a	u/a	u/a
Chloride	SM4500CI-B		0086	8800	6100	8900	0086	4400	5920
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a
		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 6'	SP2@9'	SP2 @ 12'	SP2 @ 16'	SP2 @ 18'
Analyte	Method	Date	8/25/17	8/25/17	8/25/17	8/28/17	8/28/17	8/28/17	8/28/17
Chloride	SM4500CI-B		10700	mg/Kg 8700	93/Kg 6800	mg/Kg 7600	mg/Kg 11400	mg/Kg 2200	mg/Kg 1280
		Sample	SP3 @ 1'	SP3 @ 3.	.9 @ cds	SP3 @ 9'	SP3 @ 12'	SP3 @ 16'	SP3 @ 18'
Analyte	Method	Date	8/28/17	8/28/17	8/28/17	8/28/17	8/28/17	8/28/17	8/28/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
es			<0.150	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a
aniolida	TEL SOMEN		007/	0001	0006	3200	ege	004	996
Out	TELL SO 15IM		0.01	בי/ט	וו/מ	מ/ט	D/U	D/U	0/0
שאט	IPH 80 ISIN		0.01 >	II/a	II/a	11/3		P/II	P/II
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a
		Sample	SP4 @ 1.	SP4 @ 3'	SP4 @ 6'	SP4 @ 9.	SP4 @ 12'	SP4 @ 16'	SP4 @ 18'
Analyte	Method	Date	8/28/17	8/28/17	8/28/17	8/28/17	8/28/17	8/28/17	8/28/17
Chlorido	CMAROOCIP		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
9010	a-100000+1v10		20400	0.61	0000	0000	0700	0000	1
		Sample	SP5@1	SP5 @ 3.	.9 @ sds	SP5 @ 9.	SP5 @ 12'	SP5 @ 16'	SP5 @ 18'
Analyte	Method	Date	8/28/17	8/28/17	8/28/17	8/28/17	8/28/17	8/28/17	8/28/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	u/a
Toluene	BTEX 8021B		<0.050	n/a	u/a	n/a	u/a	e/u	u/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	u/a	n/a	u/a	e/u	u/a
es	BTEX 8021B		<0.150	n/a	e/u	n/a	e/u	e/u	e/u
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		34800	1840	0002	8000	6400	0069	0099
	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a
	TPH 8015M		11.8	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a

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Laboratory Ana	

		Sample ID	SB1 @ 20'	SB1 @ 25'	SB1@30'	SB1@35'
Analyte	Method	Date	10/10/17	10/10/17	10/10/17	10/10/17
			mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B		304	48	48	48
		Sample ID	SB2@20'	SB2 @ 25'	SB2 @ 30'	SB2 @ 35'
Analyte	Method	Date	10/10/17	10/10/17	10/10/17	10/10/17
			mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B		4320	48	48	16
		_				
		Sample ID	SB3@20'	SB3 @ 25'	SB3 @ 30'	SB3@35.
Analyte	Method	Date	10/10/17	10/10/17	10/10/17	10/10/17
			mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B		8260	320	208	240
		Cl alames	SB4 @ 20.	SB4 @ 25'	SB4@30'	
Analyte	Method	Date	10/10/17	10/10/17	10/10/17	
,			mg/kg	mg/kg	mg/kg	
Chloride	SM4500CI-B		240	112	160	
		Sample ID	SB5@20'	SB5 @ 25'	SB5@30	SB5@35.
Analyte	Method	Date	10/10/17	10/10/17	10/10/17	10/10/17
			mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B		352	192	160	208

Certificate of Analysis Summary 552580 COG Operating LLC, Artesia, NM

Project Name: SRO STATE COM #48H

Date Received in Lab: Fri May-05-17 11:00 am

Report Date: 15-MAY-17 Project Manager: Liz Givens

	Lab Id:	552580-001	552580-002	552580-003	552580-004	552580-005	552580-006
Andheic Dogwooted	Field Id:	T1-SURF	T1-1'	T1-2'	T1-3'	T1-4'	T1-6'
Analysis requesied	Depth:		1 ft	2 ft	3 ft	4 ft	6 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	May-03-17 09:30	May-03-17 09:35	May-03-17 09:37	May-03-17 09:40	May-03-17 09:42	May-03-17 09:45
BTEX by EPA 8021B	Extracted:	May-08-17 16:00	May-08-17 09:00				
	Analyzed:	May-09-17 12:07	May-09-17 00:43				
	Units/RL:	mg/kg RL	mg/kg RL	_	_		
Benzene		<0.00935 0.00935	<0.00337 0.00337				
Toluene		<0.00935 0.00935	0.0158 0.00337				
Ethylbenzene		<0.00935 0.00935	<0.00337 0.00337				
m,p-Xylenes		<0.0187 0.0187	0.0379 0.00673				
o-Xylene		<0.00935 0.00935	0.0169 0.00337				
Total Xylenes		<0.00935 0.00935	0.0548 0.00337				
Total BTEX		<0.00935 0.00935	0.0706 0.00337				
Inorganic Anions by EPA 300/300.1	Extracted:	May-15-17 08:00	May-13-17 15:00	May-13-17 15:00	May-13-17 15:00	May-13-17 15:00	May-13-17 15:00
	Analyzed:	May-15-17 09:26	May-13-17 18:27	May-13-17 18:35	May-13-17 18:43	May-13-17 18:50	May-13-17 19:13
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		11000 97.5	12200 97.7	16800 250	14600 247	14800 249	15400 249
TPH By SW8015 Mod	Extracted:	May-08-17 15:00	May-08-17 15:00				
	Analyzed:	May-08-17 20:06	May-08-17 20:25				
	Units/RL:	mg/kg RL	mg/kg RL				
C6-C10 Gasoline Range Hydrocarbons		<15.0 15.0	<15.0 15.0				
C10-C28 Diesel Range Hydrocarbons		<15.0 15.0	<15.0 15.0				
Total TPH		<15.0 15.0	<15.0 15.0				

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Brandi Ritcherson Project Manager

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SRO STATE COM #48H

Aaron Lieb

COG Operating LLC, Artesia, NM

Project Name: SRO STATE COM #48H

Date Received in Lab: Fri May-05-17 11:00 am Report Date: 15-MAY-17

Project Manager: Liz Givens

	Lab Id:	552580-007	552580-008	552580-009	552580-010	552580-011	552580-012
A walneig Dogwood	Field Id:	T1-8'	T1-10'	T1-12'	T1-14'	T1-18'	T1-24'
Analysis nequested	Depth:	8 ft	10 ft	12 ft	14 ft	18 ft	24 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	May-03-17 09:47	May-03-17 09:50	May-03-17 09:52	May-03-17 09:54	May-03-17 09:57	May-03-17 09:58
Inorganic Anions by EPA 300/300.1	Extracted:	May-13-17 15:00	May-13-17 15:00	May-13-17 15:00	May-13-17 15:00	May-13-17 15:00	May-13-17 15:00
	Analyzed:	Analyzed: May-13-17 19:21	May-13-17 19:28	May-13-17 19:36	May-13-17 19:43	May-13-17 19:51	May-13-17 20:14
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		6140 99.4	1290 48.7	271 24.9	28.3 4.89	98.0 4.93	163 4.88

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SRO STATE COM #48H

Project Location:

Project Id: Contact:

Aaron Lieb

COG Operating LLC, Artesia, NM

Project Name: SRO STATE COM #48H

Date Received in Lab: Fri May-05-17 11:00 am Report Date: 15-MAY-17

Project Manager: Liz Givens

Analysis Requested Depth: Matrix: Sampled:				010-000700	11000000	0100000
~	T2- SURF	T2-1'	T2-2'	T2- 3'	T2- 4'	T2- 6'
Matrix: Sampled:		1 ft	2 ft	3 ft	4 ft	6 ft
Sampled:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
•	May-03-17 10:05	5 May-03-17 10:10	May-03-17 10:13	May-03-17 10:15	May-03-17 10:17	May-03-17 10:20
BTEX by EPA 8021B Extracted:	May-08-17 16:00	0 May-08-17 16:00				
Analyzed:	May-09-17 10:13	3 May-09-17 10:29				
Units/RL:	mg/kg	RL mg/kg RL				
Benzene	<0.00388 0.00	0.00388 <0.00380 0.00380				
Toluene	<0.00388 0.00	0.00388 0.00567 0.00380				
Ethylbenzene	<0.00388 0.00	0.00388 <0.00380 0.00380				
m,p-Xylenes	<0.00775 0.00	0.00775 <0.00760 0.00760				
o-Xylene	<0.00388 0.00	0.00388 <0.00380 0.00380				
Total Xylenes	<0.00388 0.00	0.00388 <0.00380 0.00380				
Total BTEX	<0.00388 0.00	0.00388 0.00567 0.00380				
Inorganic Anions by EPA 300/300.1 Extracted:	May-13-17 15:00	0 May-13-17 15:00	May-13-17 15:00	May-13-17 15:00	May-13-17 15:00	May-13-17 15:00
Analyzed:	May-13-17 20:21	.1 May-13-17 20:44	May-13-17 20:52	May-13-17 20:59	May-13-17 21:07	May-13-17 21:14
Units/RL:	mg/kg	RL mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride	5 0826	99.4 11900 99.6	9720 98.8	8200 97.8	13900 249	13300 100
TPH By SW8015 Mod Extracted:	May-08-17 15:00	0 May-08-17 15:00				
Analyzed:	May-08-17 21:23	.3 May-08-17 21:43				
Units/RL:	mg/kg	RL mg/kg RL				
C6-C10 Gasoline Range Hydrocarbons	<14.9	14.9 <15.0 15.0				
C10-C28 Diesel Range Hydrocarbons	<14.9	14.9 <15.0 15.0				
Total TPH	<14.9	14.9 <15.0 15.0				

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Brandi Ritcherson Project Manager

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SRO STATE COM #48H Project Location:

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COG Operating LLC, Artesia, NM

Project Name: SRO STATE COM #48H

Date Received in Lab: Fri May-05-17 11:00 am

Report Date: 15-MAY-17

Project Manager: Liz Givens

	Lab Id:	552580-019	552580-020	552580-021	552580-022	552580-023	552580-024
Amalucie Dogwootod	Field Id:	T2- 8'	T2-10'	T2-12'	T2-14'	T2-19'	T2-24'
Analysis Nequesieu	Depth:	8 ft	10 ft	12 ft	14 ft	19 ft	24 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	May-03-17 10:22	May-03-17 10:25	May-03-17 10:30	May-03-17 10:35	May-03-17 10:37	May-03-17 10:40
Inorganic Anions by EPA 300/300.1	Extracted:	May-13-17 15:00	May-13-17 15:00	May-14-17 13:00	May-14-17 13:00	May-14-17 13:00	May-14-17 13:00
	Analyzed:	Analyzed: May-13-17 21:22	May-13-17 21:30	May-14-17 15:16	May-14-17 14:53	May-14-17 15:24	May-14-17 15:31
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		9170 97.1	1180 24.9	1350 24.8	6.48 4.94	<25.0 25.0	<49.7 49.7

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SRO STATE COM #48H

Project Location:

Project Id: Contact:

Aaron Lieb

COG Operating LLC, Artesia, NM

Project Name: SRO STATE COM #48H

Date Received in Lab: Fri May-05-17 11:00 am

Report Date: 15-MAY-17 Project Manager: Liz Givens

Lab Id:	552580-025	552580-026	552580-027	552580-028	552580-029	552580-030
Field Id.	T3_STIRE	T3_1'	T3_21	T3_3'	T3_4'	13-61

	Lab Id:	552580-025	552580-026	552580-027	552580-028	552580-029	552580-030
Andreis Domostod	Field Id:	T3-SURF	T3-1'	T3-2'	T3-3'	T3-4'	T3-6'
Analysis Nequesiea	Depth:		1 ft	2 ft	3 ft	4 ft	6 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	May-03-17 10:55	May-03-17 11:00	May-03-17 11:03	May-03-17 11:05	May-03-17 11:08	May-03-17 11:10
BTEX by EPA 8021B	Extracted:	May-08-17 09:00	May-08-17 09:00				
	Analyzed:	May-09-17 01:31	May-09-17 01:47				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		<0.00319 0.00319	<0.00201 0.00201				
Toluene		<0.00319 0.00319	<0.00201 0.00201				
Ethylbenzene		<0.00319 0.00319	<0.00201 0.00201				
m,p-Xylenes		<0.00639 0.00639	<0.00402 0.00402				
o-Xylene		<0.00319 0.00319	<0.00201 0.00201				
Total Xylenes		<0.00319 0.00319	<0.00201 0.00201				
Total BTEX		<0.00319 0.00319	<0.00201 0.00201				
Inorganic Anions by EPA 300/300.1	Extracted:	May-14-17 13:00	May-14-17 13:00	May-14-17 13:00	May-14-17 13:00	May-14-17 13:00	May-14-17 13:00
	Analyzed:	May-14-17 15:39	May-14-17 16:02	May-14-17 16:09	May-14-17 16:17	May-14-17 16:24	May-14-17 16:32
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		29000 250	649 4.94	23.0 4.97	1130 50.0	<24.9 24.9	<24.9 24.9
TPH By SW8015 Mod	Extracted:	May-08-17 15:00	May-08-17 15:00				
	Analyzed:	May-08-17 22:02	May-08-17 22:22				
	Units/RL:	mg/kg RL	mg/kg RL				
C6-C10 Gasoline Range Hydrocarbons		<15.0 15.0	<15.0 15.0				
C10-C28 Diesel Range Hydrocarbons		132 15.0	<15.0 15.0				
Total TPH		132 15.0	<15.0 15.0				

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Brandi Ritcherson Project Manager

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SRO STATE COM #48H

Project Location:

Project Id: Contact:

Aaron Lieb

Certificate of Analysis Summary 552580 COG Operating LLC, Artesia, NM

Project Name: SRO STATE COM #48H

Date Received in Lab: Fri May-05-17 11:00 am Report Date: 15-MAY-17

Project Manager: Liz Givens

	Lab Id:	552580-031	552580-032	552580-033	552580-034	552580-035	552580-036
Analysis Romostod	Field Id:	T3-8'	T3-10'	T3-17'	T3-22'	T4-SURF	T4-1'
Analysis requested	Depth:	8 ft	10 ft	17 ft	22 ft		1 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	May-03-17 11:45	May-03-17 11:50	May-03-17 11:55	May-03-17 12:35	May-03-17 12:40	May-03-17 12:42
BTEX by EPA 8021B	Extracted:					May-08-17 09:00	May-08-17 09:00
	Analyzed:					May-09-17 02:03	May-09-17 02:19
	Units/RL:					mg/kg RL	mg/kg RL
Benzene						<0.00199 0.00199	<0.00198 0.00198
Toluene						0.00334 0.00199	<0.00198 0.00198
Ethylbenzene						<0.00199 0.00199	<0.00198 0.00198
m,p-Xylenes						<0.00398 0.00398	<0.00397 0.00397
o-Xylene						<0.00199 0.00199	<0.00198 0.00198
Total Xylenes						<0.00199 0.00199	<0.00198 0.00198
Total BTEX						0.00334 0.00199	<0.00198 0.00198
Inorganic Anions by EPA 300/300.1	Extracted:	May-14-17 13:00	May-14-17 13:00				
	Analyzed:	May-14-17 17:02	May-14-17 17:10	May-14-17 16:40	May-14-17 17:33	May-14-17 17:40	May-14-17 17:48
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		<24.9 24.9	<24.9 24.9	209 4.92	209 4.94	37.2 4.92	<48.9 48.9
TPH By SW8015 Mod	Extracted:					May-08-17 15:00	May-08-17 15:00
	Analyzed:					May-08-17 22:41	May-08-17 23:00
	Units/RL:					mg/kg RL	mg/kg RL

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15.0 15.0

15.0 15.0

15.0

<15.0 <15.0 <15.0

15.0

<15.0 <15.0 <15.0

C6-C10 Gasoline Range Hydrocarbons

C10-C28 Diesel Range Hydrocarbons

Total TPH

Brandi Ritcherson Project Manager

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SRO STATE COM #48H Project Location:

COG Operating LLC, Artesia, NM

Project Name: SRO STATE COM #48H

Date Received in Lab: Fri May-05-17 11:00 am

Project Manager: Liz Givens

Report Date: 15-MAY-17

	Lab Id:	552580-037	552580-038	552580-039	552580-040	552580-041	552580-042
Amalucia Domoctod	Field Id:	T4-2'	T4-3'	T4-4'	T4-6'	T4-11'	T4-16'
Analysis Nequesica	Depth:	2 ft	3 ft	4 ft	6 ft	11 ft	16 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Sampled: May-03-17 12:45	May-03-17 12:50	May-03-17 12:55	May-03-17 12:58	May-03-17 01:05	May-03-17 01:10
Inorganic Anions by EPA 300/300.1	Extracted:	May-14-17 13:00	May-14-17 13:00	May-14-17 13:00	May-14-17 13:00	May-14-17 13:30	May-14-17 13:30
	Analyzed:	Analyzed: May-14-17 17:56	May-14-17 18:03	May-14-17 18:11	May-14-17 18:18	May-14-17 19:04	May-14-17 19:27
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		51.1 49.9	<49.5 49.5	<24.6 24.6	7.83 4.92	14.8 4.99	271 4.92

Grand Lectionson

Brandi Ritcherson Project Manager

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Final 1.000

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and mis as no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

SRO STATE COM #48H

Project Location:

Project Id: Contact:

Aaron Lieb

Analytical Report 552580

COG Operating LLC

Project Manager: Aaron Lieb SRO STATE COM #48H

15-MAY-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

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Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





15-MAY-17

Project Manager: Aaron Lieb COG Operating LLC 2407 Pecos Avenue Artesia, NM 88210

Reference: XENCO Report No(s): **552580 SRO STATE COM #48H**

Project Address: SRO STATE COM #48H

Aaron Lieb:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 552580. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 552580 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Grand'

Brandi Ritcherson

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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Sample Cross Reference 552580

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COG Operating LLC, Artesia, NM

SRO STATE COM #48H

T1-SURF	Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T1-2' S 05-03-17 09:37 - 2 ft 552580-003 T1-3' S 05-03-17 09:40 - 3 ft 552580-004 T1-4' S 05-03-17 09:45 - 6 ft 552580-006 T1-6' S 05-03-17 09:45 - 6 ft 552580-006 T1-8' S 05-03-17 09:47 - 8 ft 552580-006 T1-10' S 05-03-17 09:50 - 10 ft 552580-008 T1-12' S 05-03-17 09:50 - 10 ft 552580-008 T1-14' S 05-03-17 09:54 - 14 ft 552580-009 T1-14' S 05-03-17 09:57 - 18 ft 552580-010 T1-24' S 05-03-17 09:58 - 24 ft 552580-011 T1-24' S 05-03-17 10:05 N/A 552580-012 T2-2 I' S 05-03-17 10:05 N/A 552580-013 T2-1' S 05-03-17 10:10 - 1 ft 552580-015 T2-2' S 05-03-17 10:11 - 2 ft 552580-015 <tr< td=""><td>T1-SURF</td><td>S</td><td>05-03-17 09:30</td><td>N/A</td><td>552580-001</td></tr<>	T1-SURF	S	05-03-17 09:30	N/A	552580-001
T11-3' S 05-03-17 09:40 - 3 ft 552580-004 T11-4' S 05-03-17 09:42 - 4 ft 552580-006 T1-6' S 05-03-17 09:47 - 6 ft 552580-006 T1-8' S 05-03-17 09:50 - 10 ft 552580-007 T1-10' S 05-03-17 09:52 - 12 ft 552580-009 T1-14' S 05-03-17 09:52 - 12 ft 552580-009 T1-18' S 05-03-17 09:57 - 18 ft 552580-001 T1-18' S 05-03-17 09:57 - 18 ft 552580-010 T1-18' S 05-03-17 10:57 - 18 ft 552580-010 T1-24' S 05-03-17 10:57 - 18 ft 552580-010 T2-1' S 05-03-17 10:10 - 1 ft 552580-013 T2-1' S 05-03-17 10:13 - 2 ft 552580-013 T2-2' S 05-03-17 10:13 - 2 ft 552580-013 T2-2' S 05-03-17 10:10 - 1 ft 552580-016	T1-1'	S	05-03-17 09:35	- 1 ft	552580-002
T1-4' S 05-03-17 09:42 -4 ft 552580-005 T1-6' S 05-03-17 09:45 -6 ft 552580-006 T1-18'' S 05-03-17 09:50 -10 ft 552580-008 T1-10' S 05-03-17 09:50 -10 ft 552580-008 T1-12' S 05-03-17 09:52 -12 ft 552580-008 T1-14' S 05-03-17 09:57 -18 ft 552580-010 T1-18' S 05-03-17 09:57 -18 ft 552580-010 T1-124' S 05-03-17 09:58 -24 ft 552580-011 T2-21' S 05-03-17 10:15 N/A 552580-012 T2-3' S 05-03-17 10:15 -3 ft 552580-014 T2-2' S 05-03-17 10:15 -3 ft 552580-015 T2-3' S 05-03-17 10:15 -3 ft 552580-015 T2-4' S 05-03-17 10:20 -6 ft 552580-017 T2-18' S 05-03-17 10:20 -6 ft 552580-017	T1-2'	S	05-03-17 09:37	- 2 ft	552580-003
T1-6' S 05-03-17 09:45 - 6 ft 552580-006 T1-8' S 05-03-17 09:50 - 8 ft 552580-008 T1-10' S 05-03-17 09:50 - 10 ft 552580-009 T1-12' S 05-03-17 09:52 - 12 ft 552580-009 T1-14' S 05-03-17 09:54 - 14 ft 552580-010 T1-18' S 05-03-17 09:57 - 18 ft 552580-011 T1-24' S 05-03-17 09:58 - 24 ft 552580-012 T2- I' S 05-03-17 10:10 - 1 ft 552580-013 T2- I' S 05-03-17 10:10 - 1 ft 552580-015 T2- 2' S 05-03-17 10:10 - 1 ft 552580-015 T2- 2' S 05-03-17 10:10 - 1 ft 552580-015 T2- 2' S 05-03-17 10:17 - 4 ft 552580-015 T2- 2' S 05-03-17 10:17 - 4 ft 552580-015 T2- 2' S 05-03-17 10:17 - 4 ft 552580-017 <td>T1-3'</td> <td>S</td> <td>05-03-17 09:40</td> <td>- 3 ft</td> <td>552580-004</td>	T1-3'	S	05-03-17 09:40	- 3 ft	552580-004
T1-8' S 05-03-17 09:47 - 8 ft 552580-007 T1-10' S 05-03-17 09:50 - 10 ft 552580-008 T1-12' S 05-03-17 09:52 - 12 ft 552580-009 T1-14' S 05-03-17 09:54 - 14 ft 552580-010 T1-18' S 05-03-17 09:58 - 24 ft 552580-011 T1-24' S 05-03-17 09:58 - 24 ft 552580-012 T2- SURF S 05-03-17 10:05 N/A 552580-013 T2- 1' S 05-03-17 10:10 - 1 ft 552580-013 T2- 1' S 05-03-17 10:13 - 2 ft 552580-014 T2- 2' S 05-03-17 10:13 - 2 ft 552580-014 T2- 2' S 05-03-17 10:15 - 3 ft 552580-015 T2- 3' S 05-03-17 10:15 - 3 ft 552580-016 T2- 2' S 05-03-17 10:15 - 3 ft 552580-017 T2- 8' S 05-03-17 10:20 - 6 ft 552580-017 <td>T1-4'</td> <td>S</td> <td>05-03-17 09:42</td> <td>- 4 ft</td> <td>552580-005</td>	T1-4'	S	05-03-17 09:42	- 4 ft	552580-005
T1-10' S 05-03-17 09:50 - 10 ft 552580-008 T1-12' S 05-03-17 09:52 - 12 ft 552580-009 T1-14' S 05-03-17 09:54 - 14 ft 552580-010 T1-18' S 05-03-17 09:57 - 18 ft 552580-012 T1-24' S 05-03-17 09:58 - 24 ft 552580-012 T2-SURF S 05-03-17 10:05 N/A 552580-012 T2-1' S 05-03-17 10:13 - 2 ft 552580-015 T2-2' S 05-03-17 10:13 - 2 ft 552580-015 T2-3' S 05-03-17 10:15 - 3 ft 552580-015 T2-4' S 05-03-17 10:15 - 3 ft 552580-016 T2-4' S 05-03-17 10:10 - 4 ft 552580-017 T2-12' S 05-03-17 10:20 - 6 ft 552580-018 T2-2' S 05-03-17 10:20 - 6 ft 552580-019 T2-10' S 05-03-17 10:25 - 10 ft 552580-019	T1-6'	S	05-03-17 09:45	- 6 ft	552580-006
T1-12' S 05-03-17 09:52 - 12 ft 552580-009 T1-14' S 05-03-17 09:54 - 14 ft 552580-010 T1-18' S 05-03-17 09:58 - 24 ft 552580-011 T1-24' S 05-03-17 10:05 N/A 552580-013 T2- SURF S 05-03-17 10:10 - 1 ft 552580-013 T2- 1' S 05-03-17 10:10 - 1 ft 552580-014 T2- 2' S 05-03-17 10:10 - 1 ft 552580-015 T2- 2' S 05-03-17 10:15 - 3 ft 552580-015 T2- 2' S 05-03-17 10:15 - 3 ft 552580-015 T2- 4' S 05-03-17 10:17 - 4 ft 552580-015 T2- 4' S 05-03-17 10:20 - 6 ft 552580-017 T2- 6' S 05-03-17 10:20 - 6 ft 552580-019 T2- 10' S 05-03-17 10:20 - 10 ft 552580-022 T2- 12' S 05-03-17 10:20 - 12 ft 552580-022	T1-8'	S	05-03-17 09:47	- 8 ft	552580-007
T1-14' S 05-03-17 09:54 - 14 ft 552580-010 T1-18' S 05-03-17 09:57 - 18 ft 552580-011 T1-24' S 05-03-17 09:58 - 24 ft 552580-012 T2- SURF S 05-03-17 10:05 N/A 552580-013 T2- 1' S 05-03-17 10:10 - 1 ft 552580-015 T2- 2' S 05-03-17 10:13 - 2 ft 552580-015 T2- 3' S 05-03-17 10:15 - 3 ft 552580-015 T2- 3' S 05-03-17 10:15 - 3 ft 552580-015 T2- 4' S 05-03-17 10:10 - 4 ft 552580-015 T2- 2' S 05-03-17 10:10 - 6 ft 552580-015 T2- 2' S 05-03-17 10:20 - 6 ft 552580-017 T2- 10' S 05-03-17 10:25 - 10 ft 552580-020 T2- 12' S 05-03-17 10:35 - 14 ft 552580-021 T2- 19' S 05-03-17 10:37 - 19 ft 552580-022	T1-10'	S	05-03-17 09:50	- 10 ft	552580-008
T1-18' S 05-03-17 09:57 - 18 ft 552580-011 T1-24' S 05-03-17 09:58 - 24 ft 552580-013 T2- SURF S 05-03-17 10:05 N/A 552580-013 T2- 1' S 05-03-17 10:10 - 1 ft 552580-015 T2- 2' S 05-03-17 10:13 - 2 ft 552580-015 T2- 3' S 05-03-17 10:15 - 3 ft 552580-015 T2- 4' S 05-03-17 10:17 - 4 ft 552580-016 T2- 4' S 05-03-17 10:20 - 6 ft 552580-018 T2- 8' S 05-03-17 10:22 - 8 ft 552580-018 T2- 10' S 05-03-17 10:25 - 10 ft 552580-019 T2- 10' S 05-03-17 10:35 - 14 ft 552580-020 T2- 12' S 05-03-17 10:35 - 14 ft 552580-021 T2- 12' S 05-03-17 10:35 - 14 ft 552580-022 T2- 14' S 05-03-17 10:37 - 19 ft 552580-022	T1-12'	S	05-03-17 09:52	- 12 ft	552580-009
T1-24' S 05-03-17 10:05 N/A 552580-012 T2- SURF S 05-03-17 10:05 N/A 552580-013 T2- 1' S 05-03-17 10:10 - 1 ft 552580-014 T2- 2' S 05-03-17 10:13 - 2 ft 552580-015 T2- 3' S 05-03-17 10:15 - 3 ft 552580-016 T2- 4' S 05-03-17 10:17 - 4 ft 552580-017 T2- 6' S 05-03-17 10:20 - 6 ft 552580-018 T2- 8' S 05-03-17 10:25 - 10 ft 552580-019 T2- 10' S 05-03-17 10:30 - 12 ft 552580-020 T2- 12' S 05-03-17 10:30 - 12 ft 552580-021 T2- 14' S 05-03-17 10:35 - 14 ft 552580-022 T2- 19' S 05-03-17 10:37 - 19 ft 552580-022 T2- 24' S 05-03-17 10:35 N/A 552580-025 T3-1' S 05-03-17 10:05 N/A 552580-025	T1-14'	S	05-03-17 09:54	- 14 ft	552580-010
T2- SURF S 05-03-17 10:05 N/A 552580-013 T2- 1' S 05-03-17 10:10 -1 ft 552580-015 T2- 2' S 05-03-17 10:13 -2 ft 552580-016 T2- 3' S 05-03-17 10:15 -3 ft 552580-016 T2- 4' S 05-03-17 10:20 -6 ft 552580-017 T2- 6' S 05-03-17 10:20 -6 ft 552580-018 T2- 8' S 05-03-17 10:25 -10 ft 552580-019 T2- 10' S 05-03-17 10:25 -10 ft 552580-020 T2- 12' S 05-03-17 10:35 -14 ft 552580-021 T2- 14' S 05-03-17 10:35 -14 ft 552580-022 T2- 19' S 05-03-17 10:37 -19 ft 552580-022 T2- 24' S 05-03-17 10:40 -24 ft 552580-022 T3-1' S 05-03-17 11:00 -1 ft 552580-025 T3-2' S 05-03-17 11:05 N/A 552580-026 <tr< td=""><td>T1-18'</td><td>S</td><td>05-03-17 09:57</td><td>- 18 ft</td><td>552580-011</td></tr<>	T1-18'	S	05-03-17 09:57	- 18 ft	552580-011
T2- 1' S 05-03-17 10:10 - 1 ft 552580-014 T2- 2' S 05-03-17 10:13 - 2 ft 552580-015 T2- 3' S 05-03-17 10:17 - 3 ft 552580-016 T2- 4' S 05-03-17 10:17 - 4 ft 552580-017 T2- 6' S 05-03-17 10:20 - 6 ft 552580-018 T2- 8' S 05-03-17 10:22 - 8 ft 552580-019 T2- 10' S 05-03-17 10:25 - 10 ft 552580-020 T2- 12' S 05-03-17 10:30 - 12 ft 552580-020 T2- 14' S 05-03-17 10:35 - 14 ft 552580-022 T2- 24' S 05-03-17 10:37 - 19 ft 552580-022 T2- 24' S 05-03-17 10:55 N/A 552580-025 T3-1' S 05-03-17 11:00 - 1 ft 552580-025 T3-2' S 05-03-17 11:00 - 1 ft 552580-025 T3-3' S 05-03-17 11:05 N/A 552580-035	T1-24'	S	05-03-17 09:58	- 24 ft	552580-012
T2- 2' S 05-03-17 10:13 - 2 ft 552580-015 T2- 3' S 05-03-17 10:15 - 3 ft 552580-016 T2- 4' S 05-03-17 10:17 - 4 ft 552580-017 T2- 6' S 05-03-17 10:20 - 6 ft 552580-018 T2- 8' S 05-03-17 10:22 - 8 ft 552580-019 T2- 10' S 05-03-17 10:30 - 12 ft 552580-020 T2- 12' S 05-03-17 10:30 - 12 ft 552580-021 T2- 14' S 05-03-17 10:35 - 14 ft 552580-022 T2- 19' S 05-03-17 10:37 - 19 ft 552580-022 T2- 24' S 05-03-17 10:37 - 19 ft 552580-022 T3-1' S 05-03-17 10:55 N/A 552580-025 T3-1' S 05-03-17 11:00 - 1 ft 552580-025 T3-3' S 05-03-17 11:05 - 3 ft 552580-026 T3-4' S 05-03-17 11:05 - 3 ft 552580-036 <td>T2- SURF</td> <td>S</td> <td>05-03-17 10:05</td> <td>N/A</td> <td>552580-013</td>	T2- SURF	S	05-03-17 10:05	N/A	552580-013
T2- 3' S 05-03-17 10:15 - 3 ft 552580-016 T2- 4' S 05-03-17 10:17 - 4 ft 552580-017 T2- 6' S 05-03-17 10:20 - 6 ft 552580-018 T2- 8' S 05-03-17 10:22 - 8 ft 552580-019 T2- 10' S 05-03-17 10:32 - 10 ft 552580-020 T2- 12' S 05-03-17 10:30 - 12 ft 552580-021 T2- 14' S 05-03-17 10:35 - 14 ft 552580-022 T2- 19' S 05-03-17 10:37 - 19 ft 552580-022 T2- 24' S 05-03-17 10:37 - 19 ft 552580-023 T3-1' S 05-03-17 10:55 N/A 552580-025 T3-1' S 05-03-17 11:00 - 1 ft 552580-025 T3-3' S 05-03-17 11:05 - 3 ft 552580-025 T3-4' S 05-03-17 11:05 - 3 ft 552580-032 T3-4' S 05-03-17 11:05 - 3 ft 552580-033 <td>T2- 1'</td> <td>S</td> <td>05-03-17 10:10</td> <td>- 1 ft</td> <td>552580-014</td>	T2- 1'	S	05-03-17 10:10	- 1 ft	552580-014
T2- 4' S 05-03-17 10:17 - 4 ft 552580-017 T2- 6' S 05-03-17 10:20 - 6 ft 552580-018 T2- 8' S 05-03-17 10:22 - 8 ft 552580-019 T2- 10' S 05-03-17 10:25 - 10 ft 552580-020 T2- 12' S 05-03-17 10:30 - 12 ft 552580-021 T2- 14' S 05-03-17 10:35 - 14 ft 552580-022 T2- 19' S 05-03-17 10:37 - 19 ft 552580-023 T2- 24' S 05-03-17 10:40 - 24 ft 552580-024 T3-SURF S 05-03-17 11:00 - 1 ft 552580-025 T3-1' S 05-03-17 11:00 - 1 ft 552580-026 T3-2' S 05-03-17 11:03 - 2 ft 552580-026 T3-3' S 05-03-17 11:05 - 3 ft 552580-027 T3-3' S 05-03-17 11:05 - 3 ft 552580-029 T3-6' S 05-03-17 11:05 - 3 ft 552580-030	T2- 2'	S	05-03-17 10:13	- 2 ft	552580-015
T2- 6' S 05-03-17 10:20 - 6 ft 552580-018 T2- 8' S 05-03-17 10:22 - 8 ft 552580-019 T2- 10' S 05-03-17 10:25 - 10 ft 552580-020 T2- 12' S 05-03-17 10:30 - 12 ft 552580-021 T2- 14' S 05-03-17 10:35 - 14 ft 552580-022 T2- 19' S 05-03-17 10:37 - 19 ft 552580-023 T2- 24' S 05-03-17 10:37 - 19 ft 552580-023 T3-SURF S 05-03-17 10:55 N/A 552580-025 T3-1' S 05-03-17 11:00 - 1 ft 552580-025 T3-2' S 05-03-17 11:03 - 2 ft 552580-026 T3-3' S 05-03-17 11:05 - 3 ft 552580-027 T3-3' S 05-03-17 11:05 - 3 ft 552580-028 T3-4' S 05-03-17 11:05 - 3 ft 552580-029 T3-6' S 05-03-17 11:05 - 8 ft 552580-030 <td>T2- 3'</td> <td>S</td> <td>05-03-17 10:15</td> <td>- 3 ft</td> <td>552580-016</td>	T2- 3'	S	05-03-17 10:15	- 3 ft	552580-016
T2-8' S 05-03-17 10:22 - 8 ft 552580-019 T2-10' S 05-03-17 10:25 - 10 ft 552580-020 T2-12' S 05-03-17 10:30 - 12 ft 552580-021 T2-14' S 05-03-17 10:35 - 14 ft 552580-022 T2-19' S 05-03-17 10:37 - 19 ft 552580-023 T2-24' S 05-03-17 10:40 - 24 ft 552580-024 T3-SURF S 05-03-17 10:55 N/A 552580-025 T3-1' S 05-03-17 11:00 - 1 ft 552580-026 T3-2' S 05-03-17 11:03 - 2 ft 552580-027 T3-3' S 05-03-17 11:05 - 3 ft 552580-028 T3-4' S 05-03-17 11:05 - 3 ft 552580-028 T3-8' S 05-03-17 11:05 - 4 ft 552580-029 T3-6' S 05-03-17 11:05 - 10 ft 552580-031 T3-10' S 05-03-17 11:55 - 17 ft 552580-033	T2- 4'	S	05-03-17 10:17	- 4 ft	552580-017
T2-10' S 05-03-17 10:25 - 10 ft 552580-020 T2-12' S 05-03-17 10:30 - 12 ft 552580-021 T2-14' S 05-03-17 10:35 - 14 ft 552580-022 T2-19' S 05-03-17 10:37 - 19 ft 552580-023 T2-24' S 05-03-17 10:40 - 24 ft 552580-024 T3-SURF S 05-03-17 10:55 N/A 552580-025 T3-1' S 05-03-17 11:00 - 1 ft 552580-025 T3-2' S 05-03-17 11:03 - 2 ft 552580-026 T3-3' S 05-03-17 11:03 - 2 ft 552580-027 T3-4' S 05-03-17 11:05 - 3 ft 552580-028 T3-4' S 05-03-17 11:06 - 4 ft 552580-029 T3-6' S 05-03-17 11:0 - 6 ft 552580-030 T3-8' S 05-03-17 11:5 - 8 ft 552580-031 T3-10' S 05-03-17 11:5 - 17 ft 552580-033 <t< td=""><td>T2- 6'</td><td>S</td><td>05-03-17 10:20</td><td>- 6 ft</td><td>552580-018</td></t<>	T2- 6'	S	05-03-17 10:20	- 6 ft	552580-018
T2- 12' S 05-03-17 10:30 - 12 ft 552580-021 T2- 14' S 05-03-17 10:35 - 14 ft 552580-022 T2- 19' S 05-03-17 10:37 - 19 ft 552580-023 T2- 24' S 05-03-17 10:40 - 24 ft 552580-024 T3-SURF S 05-03-17 10:55 N/A 552580-025 T3-1' S 05-03-17 11:00 - 1 ft 552580-026 T3-2' S 05-03-17 11:03 - 2 ft 552580-027 T3-3' S 05-03-17 11:05 - 3 ft 552580-027 T3-4' S 05-03-17 11:08 - 4 ft 552580-028 T3-6' S 05-03-17 11:08 - 4 ft 552580-030 T3-8' S 05-03-17 11:10 - 6 ft 552580-031 T3-10' S 05-03-17 11:50 - 10 ft 552580-031 T3-17' S 05-03-17 11:55 - 17 ft 552580-032 T3-17' S 05-03-17 12:35 - 22 ft 552580-034 <td>T2- 8'</td> <td>S</td> <td>05-03-17 10:22</td> <td>- 8 ft</td> <td>552580-019</td>	T2- 8'	S	05-03-17 10:22	- 8 ft	552580-019
T2- 14' S 05-03-17 10:35 - 14 ft 552580-022 T2- 19' S 05-03-17 10:37 - 19 ft 552580-023 T2- 24' S 05-03-17 10:40 - 24 ft 552580-024 T3-SURF S 05-03-17 10:55 N/A 552580-025 T3-1' S 05-03-17 11:00 - 1 ft 552580-026 T3-2' S 05-03-17 11:03 - 2 ft 552580-026 T3-3' S 05-03-17 11:05 - 3 ft 552580-027 T3-3' S 05-03-17 11:05 - 3 ft 552580-028 T3-4' S 05-03-17 11:08 - 4 ft 552580-028 T3-6' S 05-03-17 11:10 - 6 ft 552580-029 T3-8' S 05-03-17 11:45 - 8 ft 552580-030 T3-10' S 05-03-17 11:50 - 10 ft 552580-031 T3-17' S 05-03-17 12:35 - 22 ft 552580-033 T3-22' S 05-03-17 12:35 - 22 ft 552580-034	T2- 10'	S	05-03-17 10:25	- 10 ft	552580-020
T2- 19' S 05-03-17 10:37 - 19 ft 552580-023 T2- 24' S 05-03-17 10:40 - 24 ft 552580-024 T3-SURF S 05-03-17 10:55 N/A 552580-025 T3-1' S 05-03-17 11:00 - 1 ft 552580-026 T3-2' S 05-03-17 11:03 - 2 ft 552580-027 T3-3' S 05-03-17 11:05 - 3 ft 552580-028 T3-4' S 05-03-17 11:08 - 4 ft 552580-028 T3-6' S 05-03-17 11:08 - 4 ft 552580-029 T3-8' S 05-03-17 11:05 - 8 ft 552580-030 T3-10' S 05-03-17 11:50 - 10 ft 552580-031 T3-17' S 05-03-17 11:55 - 17 ft 552580-032 T3-22' S 05-03-17 12:35 - 22 ft 552580-033 T3-22' S 05-03-17 12:35 - 22 ft 552580-033 T3-21' S 05-03-17 12:40 N/A 552580-035	T2- 12'	S	05-03-17 10:30	- 12 ft	552580-021
T2- 24' S 05-03-17 10:40 - 24 ft 552580-024 T3-SURF S 05-03-17 10:55 N/A 552580-025 T3-1' S 05-03-17 11:00 - 1 ft 552580-026 T3-2' S 05-03-17 11:03 - 2 ft 552580-027 T3-3' S 05-03-17 11:05 - 3 ft 552580-028 T3-4' S 05-03-17 11:08 - 4 ft 552580-028 T3-6' S 05-03-17 11:08 - 4 ft 552580-029 T3-8' S 05-03-17 11:10 - 6 ft 552580-030 T3-8' S 05-03-17 11:50 - 10 ft 552580-031 T3-10' S 05-03-17 11:50 - 10 ft 552580-032 T3-17' S 05-03-17 11:55 - 17 ft 552580-033 T3-22' S 05-03-17 12:35 - 22 ft 552580-033 T4-SURF S 05-03-17 12:40 N/A 552580-035 T4-1' S 05-03-17 12:45 - 2 ft 552580-036 <t< td=""><td>T2- 14'</td><td>S</td><td>05-03-17 10:35</td><td>- 14 ft</td><td>552580-022</td></t<>	T2- 14'	S	05-03-17 10:35	- 14 ft	552580-022
T3-SURF S 05-03-17 10:55 N/A 552580-025 T3-1' S 05-03-17 11:00 - 1 ft 552580-026 T3-2' S 05-03-17 11:03 - 2 ft 552580-027 T3-3' S 05-03-17 11:05 - 3 ft 552580-028 T3-4' S 05-03-17 11:08 - 4 ft 552580-029 T3-6' S 05-03-17 11:10 - 6 ft 552580-029 T3-8' S 05-03-17 11:45 - 8 ft 552580-030 T3-10' S 05-03-17 11:50 - 10 ft 552580-031 T3-17' S 05-03-17 11:55 - 17 ft 552580-032 T3-22' S 05-03-17 12:35 - 22 ft 552580-033 T3-22' S 05-03-17 12:40 N/A 552580-035 T4-1' S 05-03-17 12:40 N/A 552580-035 T4-2' S 05-03-17 12:42 - 1 ft 552580-036 T4-3' S 05-03-17 12:55 - 4 ft 552580-038	T2- 19'	S	05-03-17 10:37	- 19 ft	552580-023
T3-1' S 05-03-17 11:00 - 1 ft 552580-026 T3-2' S 05-03-17 11:03 - 2 ft 552580-027 T3-3' S 05-03-17 11:05 - 3 ft 552580-028 T3-4' S 05-03-17 11:08 - 4 ft 552580-029 T3-6' S 05-03-17 11:10 - 6 ft 552580-030 T3-8' S 05-03-17 11:45 - 8 ft 552580-031 T3-10' S 05-03-17 11:50 - 10 ft 552580-032 T3-17' S 05-03-17 11:55 - 17 ft 552580-032 T3-22' S 05-03-17 12:35 - 22 ft 552580-034 T4-SURF S 05-03-17 12:40 N/A 552580-035 T4-1' S 05-03-17 12:42 - 1 ft 552580-036 T4-2' S 05-03-17 12:45 - 2 ft 552580-037 T4-3' S 05-03-17 12:50 - 3 ft 552580-038 T4-4' S 05-03-17 12:55 - 4 ft 552580-039	T2- 24'	S	05-03-17 10:40	- 24 ft	552580-024
T3-2' S 05-03-17 11:03 - 2 ft 552580-027 T3-3' S 05-03-17 11:05 - 3 ft 552580-028 T3-4' S 05-03-17 11:08 - 4 ft 552580-029 T3-6' S 05-03-17 11:10 - 6 ft 552580-030 T3-8' S 05-03-17 11:45 - 8 ft 552580-031 T3-10' S 05-03-17 11:50 - 10 ft 552580-032 T3-17' S 05-03-17 11:55 - 17 ft 552580-033 T3-22' S 05-03-17 12:35 - 22 ft 552580-034 T4-SURF S 05-03-17 12:40 N/A 552580-035 T4-1' S 05-03-17 12:42 - 1 ft 552580-035 T4-2' S 05-03-17 12:45 - 2 ft 552580-036 T4-3' S 05-03-17 12:50 - 3 ft 552580-038 T4-4' S 05-03-17 12:55 - 4 ft 552580-039 T4-6' S 05-03-17 12:58 - 6 ft 552580-040	T3-SURF	S	05-03-17 10:55	N/A	552580-025
T3-3' S 05-03-17 11:05 - 3 ft 552580-028 T3-4' S 05-03-17 11:08 - 4 ft 552580-029 T3-6' S 05-03-17 11:10 - 6 ft 552580-030 T3-8' S 05-03-17 11:45 - 8 ft 552580-031 T3-10' S 05-03-17 11:50 - 10 ft 552580-032 T3-17' S 05-03-17 11:55 - 17 ft 552580-033 T3-22' S 05-03-17 12:35 - 22 ft 552580-034 T4-SURF S 05-03-17 12:40 N/A 552580-035 T4-1' S 05-03-17 12:42 - 1 ft 552580-036 T4-2' S 05-03-17 12:45 - 2 ft 552580-037 T4-3' S 05-03-17 12:50 - 3 ft 552580-038 T4-4' S 05-03-17 12:55 - 4 ft 552580-039 T4-6' S 05-03-17 12:58 - 6 ft 552580-040 T4-11' S 05-03-17 01:05 - 11 ft 552580-041	T3-1'	S	05-03-17 11:00	- 1 ft	552580-026
T3-4' S 05-03-17 11:08 -4 ft 552580-029 T3-6' S 05-03-17 11:10 -6 ft 552580-030 T3-8' S 05-03-17 11:45 -8 ft 552580-031 T3-10' S 05-03-17 11:50 -10 ft 552580-032 T3-17' S 05-03-17 11:55 -17 ft 552580-033 T3-22' S 05-03-17 12:35 -22 ft 552580-034 T4-SURF S 05-03-17 12:40 N/A 552580-035 T4-1' S 05-03-17 12:42 -1 ft 552580-036 T4-2' S 05-03-17 12:45 -2 ft 552580-037 T4-3' S 05-03-17 12:50 -3 ft 552580-038 T4-4' S 05-03-17 12:55 -4 ft 552580-039 T4-6' S 05-03-17 12:58 -6 ft 552580-040 T4-11' S 05-03-17 01:05 -11 ft 552580-041	T3-2'	S	05-03-17 11:03	- 2 ft	552580-027
T3-6' S 05-03-17 11:10 - 6 ft 552580-030 T3-8' S 05-03-17 11:45 - 8 ft 552580-031 T3-10' S 05-03-17 11:50 - 10 ft 552580-032 T3-17' S 05-03-17 11:55 - 17 ft 552580-033 T3-22' S 05-03-17 12:35 - 22 ft 552580-034 T4-SURF S 05-03-17 12:40 N/A 552580-035 T4-1' S 05-03-17 12:42 - 1 ft 552580-036 T4-2' S 05-03-17 12:45 - 2 ft 552580-037 T4-3' S 05-03-17 12:50 - 3 ft 552580-038 T4-4' S 05-03-17 12:55 - 4 ft 552580-039 T4-6' S 05-03-17 12:58 - 6 ft 552580-040 T4-11' S 05-03-17 01:05 - 11 ft 552580-041	T3-3'	S	05-03-17 11:05	- 3 ft	552580-028
T3-8' S 05-03-17 11:45 - 8 ft 552580-031 T3-10' S 05-03-17 11:50 - 10 ft 552580-032 T3-17' S 05-03-17 11:55 - 17 ft 552580-033 T3-22' S 05-03-17 12:35 - 22 ft 552580-034 T4-SURF S 05-03-17 12:40 N/A 552580-035 T4-1' S 05-03-17 12:42 - 1 ft 552580-036 T4-2' S 05-03-17 12:45 - 2 ft 552580-037 T4-3' S 05-03-17 12:50 - 3 ft 552580-038 T4-4' S 05-03-17 12:55 - 4 ft 552580-039 T4-6' S 05-03-17 12:58 - 6 ft 552580-040 T4-11' S 05-03-17 12:58 - 6 ft 552580-040	T3-4'	S	05-03-17 11:08	- 4 ft	552580-029
T3-10' S 05-03-17 11:50 - 10 ft 552580-032 T3-17' S 05-03-17 11:55 - 17 ft 552580-033 T3-22' S 05-03-17 12:35 - 22 ft 552580-034 T4-SURF S 05-03-17 12:40 N/A 552580-035 T4-1' S 05-03-17 12:42 - 1 ft 552580-036 T4-2' S 05-03-17 12:45 - 2 ft 552580-037 T4-3' S 05-03-17 12:50 - 3 ft 552580-038 T4-4' S 05-03-17 12:55 - 4 ft 552580-039 T4-6' S 05-03-17 12:58 - 6 ft 552580-040 T4-11' S 05-03-17 01:05 - 11 ft 552580-041	T3-6'	S	05-03-17 11:10	- 6 ft	552580-030
T3-17' S 05-03-17 11:55 - 17 ft 552580-033 T3-22' S 05-03-17 12:35 - 22 ft 552580-034 T4-SURF S 05-03-17 12:40 N/A 552580-035 T4-1' S 05-03-17 12:42 - 1 ft 552580-036 T4-2' S 05-03-17 12:45 - 2 ft 552580-037 T4-3' S 05-03-17 12:50 - 3 ft 552580-038 T4-4' S 05-03-17 12:55 - 4 ft 552580-039 T4-6' S 05-03-17 12:58 - 6 ft 552580-040 T4-11' S 05-03-17 01:05 - 11 ft 552580-041	T3-8'	S	05-03-17 11:45	- 8 ft	552580-031
T3-22' S 05-03-17 12:35 - 22 ft 552580-034 T4-SURF S 05-03-17 12:40 N/A 552580-035 T4-1' S 05-03-17 12:42 - 1 ft 552580-036 T4-2' S 05-03-17 12:45 - 2 ft 552580-037 T4-3' S 05-03-17 12:50 - 3 ft 552580-038 T4-4' S 05-03-17 12:55 - 4 ft 552580-039 T4-6' S 05-03-17 12:58 - 6 ft 552580-040 T4-11' S 05-03-17 01:05 - 11 ft 552580-041	T3-10'	S	05-03-17 11:50	- 10 ft	552580-032
T4-SURF S 05-03-17 12:40 N/A 552580-035 T4-1' S 05-03-17 12:42 -1 ft 552580-036 T4-2' S 05-03-17 12:45 -2 ft 552580-037 T4-3' S 05-03-17 12:50 -3 ft 552580-038 T4-4' S 05-03-17 12:55 -4 ft 552580-039 T4-6' S 05-03-17 12:58 -6 ft 552580-040 T4-11' S 05-03-17 01:05 -11 ft 552580-041	T3-17'	S	05-03-17 11:55	- 17 ft	552580-033
T4-1' S 05-03-17 12:42 - 1 ft 552580-036 T4-2' S 05-03-17 12:45 - 2 ft 552580-037 T4-3' S 05-03-17 12:50 - 3 ft 552580-038 T4-4' S 05-03-17 12:55 - 4 ft 552580-039 T4-6' S 05-03-17 12:58 - 6 ft 552580-040 T4-11' S 05-03-17 01:05 - 11 ft 552580-041	T3-22'	S	05-03-17 12:35	- 22 ft	552580-034
T4-2' S 05-03-17 12:45 - 2 ft 552580-037 T4-3' S 05-03-17 12:50 - 3 ft 552580-038 T4-4' S 05-03-17 12:55 - 4 ft 552580-039 T4-6' S 05-03-17 12:58 - 6 ft 552580-040 T4-11' S 05-03-17 01:05 - 11 ft 552580-041	T4-SURF	S	05-03-17 12:40	N/A	552580-035
T4-3' S 05-03-17 12:50 - 3 ft 552580-038 T4-4' S 05-03-17 12:55 - 4 ft 552580-039 T4-6' S 05-03-17 12:58 - 6 ft 552580-040 T4-11' S 05-03-17 01:05 - 11 ft 552580-041	T4-1'	S	05-03-17 12:42	- 1 ft	552580-036
T4-4' S 05-03-17 12:55 - 4 ft 552580-039 T4-6' S 05-03-17 12:58 - 6 ft 552580-040 T4-11' S 05-03-17 01:05 - 11 ft 552580-041	T4-2'	S	05-03-17 12:45	- 2 ft	552580-037
T4-6' S 05-03-17 12:58 - 6 ft 552580-040 T4-11' S 05-03-17 01:05 - 11 ft 552580-041	T4-3'	S	05-03-17 12:50	- 3 ft	552580-038
T4-11' S 05-03-17 01:05 -11 ft 552580-041	T4-4'	S	05-03-17 12:55	- 4 ft	552580-039
	T4-6'	S	05-03-17 12:58	- 6 ft	552580-040
T4-16' S 05-03-17 01:10 - 16 ft 552580-042	T4-11'	S	05-03-17 01:05	- 11 ft	552580-041
	T4-16'	S	05-03-17 01:10	- 16 ft	552580-042

CASE NARRATIVE

Client Name: COG Operating LLC Project Name: SRO STATE COM #48H

Project ID: Report Date: 15-MAY-17
Work Order Number(s): 552580 Date Received: 05/05/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3016772 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3017044 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3017191 Inorganic Anions by EPA 300/300.1

Lab Sample ID 552580-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 552580-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3017230 Inorganic Anions by EPA 300/300.1

Lab Sample ID 552582-005 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 552580-041, -042.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T1-SURF Matrix:

Soil

Date Received:05.05.17 11.00

Lab Sample Id: 552580-001 Date Collected: 05.03.17 09.30

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

% Moisture:

Tech: MGO

Analyst:

Date Prep: 05.15.17 08.00 Basis: Wet Weight

Seq Number: 3017191

MGO

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11000	97.5	mg/kg	05.15.17 09.26		20

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

05.08.17 15.00 Date Prep:

Basis: Wet Weight

Seq Number: 3016765

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.08.17 20.06	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.08.17 20.06	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.08.17 20.06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	104	%	70-135	05.08.17 20.06		
o-Terphenyl		84-15-1	108	%	70-135	05.08.17 20.06		

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech:

ALJ

ALJ Analyst:

05.08.17 16.00 Date Prep:

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00935	0.00935		mg/kg	05.09.17 12.07	U	1
Toluene	108-88-3	< 0.00935	0.00935		mg/kg	05.09.17 12.07	U	1
Ethylbenzene	100-41-4	< 0.00935	0.00935		mg/kg	05.09.17 12.07	U	1
m,p-Xylenes	179601-23-1	< 0.0187	0.0187		mg/kg	05.09.17 12.07	U	1
o-Xylene	95-47-6	< 0.00935	0.00935		mg/kg	05.09.17 12.07	U	1
Total Xylenes	1330-20-7	< 0.00935	0.00935		mg/kg	05.09.17 12.07	U	1
Total BTEX		< 0.00935	0.00935		mg/kg	05.09.17 12.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	96	%	80-120	05.09.17 12.07		
1,4-Difluorobenzene		540-36-3	91	%	80-120	05.09.17 12.07		





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Soil

Sample Id: T1-1' Matrix:

Date Received:05.05.17 11.00

Lab Sample Id: 552580-002 Date Collected: 05.03.17 09.35

Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

ech: MGO

% Moisture:

Tech: MGO Analyst: MGO

Date Prep: 05.13.17 15.00

Basis: Wet Weight

Seq Number: 3017191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12200	97.7	mg/kg	05.13.17 18.27		20

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: A

ARM

% Moisture:

Analyst: ARM

Date Prep: 05.08.17 15.00

Basis: Wet Weight

Seq Number: 3016765

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.08.17 20.25	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.08.17 20.25	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.08.17 20.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	101	%	70-135	05.08.17 20.25		
o-Terphenyl		84-15-1	104	%	70-135	05.08.17 20.25		

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Basis:

Analyst: ALJ

Date Prep: 05.08.17 09.00

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00337	0.00337		mg/kg	05.09.17 00.43	U	1
Toluene	108-88-3	0.0158	0.00337		mg/kg	05.09.17 00.43		1
Ethylbenzene	100-41-4	< 0.00337	0.00337		mg/kg	05.09.17 00.43	U	1
m,p-Xylenes	179601-23-1	0.0379	0.00673		mg/kg	05.09.17 00.43		1
o-Xylene	95-47-6	0.0169	0.00337		mg/kg	05.09.17 00.43		1
Total Xylenes	1330-20-7	0.0548	0.00337		mg/kg	05.09.17 00.43		1
Total BTEX		0.0706	0.00337		mg/kg	05.09.17 00.43		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	89	%	80-120	05.09.17 00.43		
1,4-Difluorobenzene		540-36-3	98	%	80-120	05.09.17 00.43		





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T1-2' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-003 Date Collected: 05.03.17 09.37 Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.13.17 15.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16800	250	mg/kg	05.13.17 18.35		50





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T1-3' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-004 Date Collected: 05.03.17 09.40 Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 05.13.17 15.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14600	247	mg/kg	05.13.17 18.43		50





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T1-4' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-005 Date Collected: 05.03.17 09.42 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Basis:

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.13.17 15.00

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14800	249	mg/kg	05.13.17 18.50		50





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T1-6' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-006 Date Collected: 05.03.17 09.45 Sample Depth: 6 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.13.17 15.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15400	249	mg/kg	05.13.17 19.13		50





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T1-8' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-007 Date Collected: 05.03.17 09.47 Sample Depth: 8 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Wet Weight

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.13.17 15.00 Basis:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6140	99.4	mg/kg	05.13.17 19.21		20





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: Matrix: Soil Date Received:05.05.17 11.00 T1-10'

Lab Sample Id: 552580-008 Date Collected: 05.03.17 09.50 Sample Depth: 10 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MGO % Moisture:

Basis:

Seq Number: 3017191

Analyst:

MGO

05.13.17 15.00 Date Prep:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1290	48.7	mg/kg	05.13.17 19.28		10





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T1-12' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-009 Date Collected: 05.03.17 09.52 Sample Depth: 12 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.13.17 15.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	271	24.9	mg/kg	05.13.17 19.36		5





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T1-14' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-010 Date Collected: 05.03.17 09.54 Sample Depth: 14 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.13.17 15.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28.3	4.89	mg/kg	05.13.17 19.43		1





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T1-18' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-011 Date Collected: 05.03.17 09.57 Sample Depth: 18 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.13.17 15.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	98.0	4.93	mg/kg	05.13.17 19.51		1





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T1-24' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-012 Date Collected: 05.03.17 09.58 Sample Depth: 24 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.13.17 15.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	163	4.88	mg/kg	05.13.17 20.14		1





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Soil

Sample Id: T2-SURF Matrix:

Lab Sample Id: 552580-013 Date Collected: 05.03.17 10.05

Analytical Method: Inorganic Anions by EPA 300/300.1

MGO Tech:

MGO Basis: Analyst: Date Prep: 05.13.17 15.00 Wet Weight

Seq Number: 3017191

Parameter Result Cas Number RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 05.13.17 20.21 9730 99.4 mg/kg 20

Analytical Method: TPH By SW8015 Mod

Tech:

ARM Analyst: Seq Number: 3016765

ARM

Date Prep: 05.08.17 15.00

Basis:

% Moisture:

Prep Method: TX1005P

Date Received:05.05.17 11.00

Prep Method: E300P

% Moisture:

Wet Weight

Cas Number Result RL **Parameter** Units **Analysis Date** Flag Dil C6-C10 Gasoline Range Hydrocarbons PHC610 <14.9 14.9 mg/kg 05.08.17 21.23 U 1 C10C28DRO C10-C28 Diesel Range Hydrocarbons <14.9 14.9 mg/kg 05.08.17 21.23 U 1 Total TPH PHC635 <14.9 14.9 05.08.17 21.23 U mg/kg % Surrogate Cas Number Units Limits **Analysis Date** Flag Recovery 1-Chlorooctane 111-85-3 102 % 70-135 05.08.17 21.23 84-15-1 o-Terphenyl 104 % 70-135 05.08.17 21.23

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: Seq Number: 3017044

ALJ

Date Prep: 05.08.17 16.00 Prep Method: SW5030B

% Moisture:

Basis:

Wet Weight

Flag

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00388	0.00388	mg/kg	05.09.17 10.13	U	1
Toluene	108-88-3	< 0.00388	0.00388	mg/kg	05.09.17 10.13	U	1
Ethylbenzene	100-41-4	< 0.00388	0.00388	mg/kg	05.09.17 10.13	U	1
m,p-Xylenes	179601-23-1	< 0.00775	0.00775	mg/kg	05.09.17 10.13	U	1
o-Xylene	95-47-6	< 0.00388	0.00388	mg/kg	05.09.17 10.13	U	1
Total Xylenes	1330-20-7	< 0.00388	0.00388	mg/kg	05.09.17 10.13	U	1
Total BTEX		< 0.00388	0.00388	mg/kg	05.09.17 10.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	F
4-Bromofluorobenzene	460-00-4	86	%	80-120	05.09.17 10.13	
1,4-Difluorobenzene	540-36-3	88	%	80-120	05.09.17 10.13	





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T2-1' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-014

Date Collected: 05.03.17 10.10

05.08.17 15.00

05.08.17 16.00

Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech:

MGO

% Moisture:

Analyst:

MGO

Date Prep: 05.13.17 15.00 Basis:

Wet Weight

Seq Number: 3017191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11900	99.6	mg/kg	05.13.17 20.44		20

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech:

ARM

% Moisture:

Basis: Wet Weight

ARM Analyst: Seq Number: 3016765

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.08.17 21.43	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.08.17 21.43	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.08.17 21.43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	101	%	70-135	05.08.17 21.43		
o-Terphenyl		84-15-1	103	%	70-135	05.08.17 21.43		

Date Prep:

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ ALJ % Moisture: Basis:

Wet Weight

Analyst: Seq Number: 3017044

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00380	0.00380		mg/kg	05.09.17 10.29	U	1
Toluene	108-88-3	0.00567	0.00380		mg/kg	05.09.17 10.29		1
Ethylbenzene	100-41-4	< 0.00380	0.00380		mg/kg	05.09.17 10.29	U	1
m,p-Xylenes	179601-23-1	< 0.00760	0.00760		mg/kg	05.09.17 10.29	U	1
o-Xylene	95-47-6	< 0.00380	0.00380		mg/kg	05.09.17 10.29	U	1
Total Xylenes	1330-20-7	< 0.00380	0.00380		mg/kg	05.09.17 10.29	U	1
Total BTEX		0.00567	0.00380		mg/kg	05.09.17 10.29		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	115	%	80-120	05.09.17 10.29		
1,4-Difluorobenzene		540-36-3	118	%	80-120	05.09.17 10.29		

Date Prep:





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T2- 2' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-015 Date Collected: 05.03.17 10.13 Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.13.17 15.00 Bate Prep: 05.13.17 15.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9720	98.8	mg/kg	05.13.17 20.52		20



T2-3'

Certificate of Analytical Results 552580



COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: Matrix: Soil

Lab Sample Id: 552580-016 Date Collected: 05.03.17 10.15 Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Date Received:05.05.17 11.00

MGO % Moisture:

MGO Analyst: 05.13.17 15.00 Basis: Wet Weight Date Prep:

Seq Number: 3017191

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8500	97.8	mg/kg	05.13.17 20.59		20



T2- 4'

Lab Sample Id: 552580-017

Certificate of Analytical Results 552580



COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Soil

Date Received:05.05.17 11.00

Date Collected: 05.03.17 10.17

Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MGO

Sample Id:

% Moisture:

MGO Analyst:

05.13.17 15.00 Date Prep:

Basis: Wet Weight

Seq Number: 3017191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13900	249	mg/kg	05.13.17 21.07		50

Matrix:



T2-6'

MGO

Lab Sample Id: 552580-018

Certificate of Analytical Results 552580



COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Soil

Date Received:05.05.17 11.00

Date Collected: 05.03.17 10.20

Sample Depth: 6 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

MGO

% Moisture:

Tech: MGO

Sample Id:

Analyst:

Date Prep: 05.13.17 15.00

Basis: Wet Weight

Seq Number: 3017191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13300	100	mg/kg	05.13.17 21.14		20

Matrix:





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T2-8'

Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-019 Date Collected: 05.03.17 10.22 Sample Depth: 8 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

MGO Analyst: 05.13.17 15.00 Basis: Wet Weight Date Prep:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9170	97.1	mg/kg	05.13.17 21.22		20





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T2-10' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-020 Date Collected: 05.03.17 10.25 Sample Depth: 10 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.13.17 15.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1180	24.9	mg/kg	05.13.17 21.30		5





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T2-12' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-021 Date Collected: 05.03.17 10.30 Sample Depth: 12 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.14.17 13.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1350	24.8	mg/kg	05.14.17 15.16		5





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T2-14' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-022 Date Collected: 05.03.17 10.35 Sample Depth: 14 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.14.17 13.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6.48	4.94	mg/kg	05.14.17 14.53		1





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T2-19' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-023 Date Collected: 05.03.17 10.37 Sample Depth: 19 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.14.17 13.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0	mg/kg	05.14.17 15.24	U	5





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T2-24' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-024 Date Collected: 05.03.17 10.40 Sample Depth: 24 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.14.17 13.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<49.7	49.7	mg/kg	05.14.17 15.31	U	10





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T3-SURF Matrix: Soil

Lab Sample Id: 552580-025 Date Collected: 05.03.17 10.55

Analytical Method: Inorganic Anions by EPA 300/300.1

MGO Tech:

MGO Analyst: Date Prep: 05.14.17 13.00 Basis: Wet Weight

Seq Number: 3017234

Parameter Result Cas Number RLUnits **Analysis Date** Flag Dil 16887-00-6 250 Chloride 29000 mg/kg 05.14.17 15.39 50

Analytical Method: TPH By SW8015 Mod

ARM Tech:

ARM Analyst: Seq Number: 3016765

Date Prep: 05.08.17 15.00

Prep Method: TX1005P

Date Received:05.05.17 11.00

Prep Method: E300P

% Moisture:

% Moisture:

Basis:

Wet Weight

Cas Number Result RL **Parameter** Units **Analysis Date** Flag Dil C6-C10 Gasoline Range Hydrocarbons PHC610 <15.0 15.0 05.08.17 22.02 U mg/kg 1 C10C28DRO C10-C28 Diesel Range Hydrocarbons 132 15.0 mg/kg 05.08.17 22.02 1 **Total TPH** PHC635 132 15.0 05.08.17 22.02 mg/kg % Surrogate Cas Number Units Limits **Analysis Date** Flag Recovery 1-Chlorooctane 111-85-3 101 % 70-135 05.08.17 22.02 o-Terphenyl 84-15-1 103 % 70-135 05.08.17 22.02

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

ALJ Analyst:

Date Prep: 05.08.17 09.00 % Moisture:

Basis:

Prep Method: SW5030B

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00319	0.00319		mg/kg	05.09.17 01.31	U	1
Toluene	108-88-3	< 0.00319	0.00319		mg/kg	05.09.17 01.31	U	1
Ethylbenzene	100-41-4	< 0.00319	0.00319		mg/kg	05.09.17 01.31	U	1
m,p-Xylenes	179601-23-1	< 0.00639	0.00639		mg/kg	05.09.17 01.31	U	1
o-Xylene	95-47-6	< 0.00319	0.00319		mg/kg	05.09.17 01.31	U	1
Total Xylenes	1330-20-7	< 0.00319	0.00319		mg/kg	05.09.17 01.31	U	1
Total BTEX		< 0.00319	0.00319		mg/kg	05.09.17 01.31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	117	%	80-120	05.09.17 01.31		
1,4-Difluorobenzene		540-36-3	116	%	80-120	05.09.17 01.31		





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Soil

Lab Sample Id: 552580-026 Date Collected: 05.03.17 11.00

Date Received:05.05.17 11.00

Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MGO

% Moisture:

Wet Weight

Analyst: MGO

Sample Id:

Seq Number: 3017234

T3-1'

Date Prep: 05.14.17 13.00

Basis:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 649
 4.94
 mg/kg
 05.14.17 16.02
 1

Matrix:

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

Date Prep: 05.08.17 15.00

Basis:

Wet Weight

Seq Number: 3016765

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.08.17 22.22	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.08.17 22.22	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.08.17 22.22	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-135	05.08.17 22.22		
o-Terphenyl		84-15-1	96	%	70-135	05.08.17 22.22		

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 05.08.17 09.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	05.09.17 01.47	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	05.09.17 01.47	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	05.09.17 01.47	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	05.09.17 01.47	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	05.09.17 01.47	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	05.09.17 01.47	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	05.09.17 01.47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	89	%	80-120	05.09.17 01.47		
1,4-Difluorobenzene		540-36-3	102	%	80-120	05.09.17 01.47		





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T3-2' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-027 Date Collected: 05.03.17 11.03 Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.14.17 13.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	23.0	4.97	mg/kg	05.14.17 16.09		1





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T3-3' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-028 Date Collected: 05.03.17 11.05 Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

% Moisture:

Analyst: MGO Date Prep: 05.14.17 13.00 Basis: Wet Weight

Seq Number: 3017234

MGO

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1130	50.0	mg/kg	05.14.17 16.17		10





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T3-4' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-029 Date Collected: 05.03.17 11.08 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.14.17 13.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<24.9	24.9	mg/kg	05.14.17 16.24	U	5





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T3-6' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-030 Date Collected: 05.03.17 11.10 Sample Depth: 6 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.14.17 13.00 Basis:

Seq Number: 3017234

asis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<24.9	24.9	mg/kg	05.14.17 16.32	U	5





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

05.14.17 13.00

Sample Id: T3-8' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-031 Date Collected: 05.03.17 11.45 Sample Depth: 8 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Wet Weight

Basis:

Tech: MGO % Moisture:

Date Prep:

Seq Number: 3017234

Analyst:

MGO

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<24.9	24.9	mg/kg	05.14.17 17.02	U	





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T3-10' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-032 Date Collected: 05.03.17 11.50 Sample Depth: 10 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.14.17 13.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<24.9	24.9	mg/kg	05.14.17 17.10	U	5





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T3-17' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-033 Date Collected: 05.03.17 11.55 Sample Depth: 17 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.14.17 13.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	209	4.92	mg/kg	05.14.17 16.40		1





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Basis:

Wet Weight

Sample Id: T3-22' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-034 Date Collected: 05.03.17 12.35 Sample Depth: 22 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.14.17 13.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	209	4.94	mg/kg	05.14.17 17.33		1





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

05.14.17 13.00

Sample Id: **T4-SURF** Matrix: Soil

Lab Sample Id: 552580-035 Date Collected: 05.03.17 12.40

Analytical Method: Inorganic Anions by EPA 300/300.1

MGO Tech:

MGO Analyst:

Seq Number: 3017234

Date Prep:

Prep Method: E300P

% Moisture:

Basis:

Wet Weight

Date Received:05.05.17 11.00

Parameter Result Cas Number RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 05.14.17 17.40 37.2 4.92 mg/kg 1

Analytical Method: TPH By SW8015 Mod

ARM Tech:

ARM Analyst:

Date Prep: 05.08.17 15.00 % Moisture:

Prep Method: TX1005P

Basis: Wet Weight

Seq Number: 3016765

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.08.17 22.41	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.08.17 22.41	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.08.17 22.41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-135	05.08.17 22.41		
o-Terphenyl		84-15-1	95	%	70-135	05.08.17 22.41		

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech:

ALJ

ALJ Analyst: Seq Number: 3016772 Date Prep: 05.08.17 09.00 Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199	mg/kg	05.09.17 02.03	U	1
Toluene	108-88-3	0.00334	0.00199	mg/kg	05.09.17 02.03		1
Ethylbenzene	100-41-4	< 0.00199	0.00199	mg/kg	05.09.17 02.03	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	mg/kg	05.09.17 02.03	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	mg/kg	05.09.17 02.03	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199	mg/kg	05.09.17 02.03	U	1
Total BTEX		0.00334	0.00199	mg/kg	05.09.17 02.03		1
		a .v	%			***	

Surrogate Cas Number Units Limits **Analysis Date** Flag Recovery 460-00-4 05.09.17 02.03 4-Bromofluorobenzene % 80-120 1,4-Difluorobenzene 540-36-3 102 % 80-120 05.09.17 02.03





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T4-1' Matrix: Soil

Date Received:05.05.17 11.00

Lab Sample Id: 552580-036 Date Collected: 05.03.17 12.42

Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

MGO % Mo

% Moisture:

Tech: MGO Analyst: MGO

Date Prep: 05.14.17 13.00

Basis: Wet Weight

Seq Number: 3017234

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<48.9	48.9	mg/kg	05.14.17 17.48	U	10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech:

Analyst:

ARM ARM

Date Prep: 05.08.17 15.00

Basis: Wet Weight

Seq Number: 3016765

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.08.17 23.00	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.08.17 23.00	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.08.17 23.00	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-135	05.08.17 23.00		
o-Terphenyl		84-15-1	96	%	70-135	05.08.17 23.00		

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Date Prep:

Tech: ALJ

% Moisture:

Analyst: ALJ

05.08.17 09.00 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	05.09.17 02.19	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	05.09.17 02.19	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	05.09.17 02.19	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	05.09.17 02.19	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	05.09.17 02.19	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	05.09.17 02.19	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	05.09.17 02.19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	80-120	05.09.17 02.19		
4-Bromofluorobenzene		460-00-4	87	%	80-120	05.09.17 02.19		



T4-2'

MGO

Certificate of Analytical Results 552580



Date Received:05.05.17 11.00

Wet Weight

Basis:

COG Operating LLC, Artesia, NM

SRO STATE COM #48H

05.14.17 13.00

Sample Id: Matrix: Soil

Lab Sample Id: 552580-037 Date Collected: 05.03.17 12.45 Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Date Prep:

Tech: MGO % Moisture:

Seq Number: 3017234

Analyst:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	51.1	49.9	mg/kg	05.14.17 17.56		10





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T4-3' Matrix: Soil

Lab Sample Id: 552580-038 Date Collected: 05.03.17 12.50 Sample Depth: 3 ft

Sumple Beptil. 5 1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Date Received:05.05.17 11.00

% Moisture:

Analyst: MGO Date Prep: 05.14.17 13.00 Basis: Wet Weight

Seq Number: 3017234

MGO

Tech:

Parameter	Cas Number	Result	RL	Uni	its	Analysis Date	Flag	Dil
Chloride	16887-00-6	<49.5	49.5	mg/l	/kg	05.14.17 18.03	U	10





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T4-4' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-039 Date Collected: 05.03.17 12.55 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.14.17 13.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<24.6	24.6	mg/kg	05.14.17 18.11	U	5





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: Matrix: Soil Date Received:05.05.17 11.00 T4-6'

Date Prep:

Lab Sample Id: 552580-040 Date Collected: 05.03.17 12.58 Sample Depth: 6 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Wet Weight

Basis:

% Moisture:

05.14.17 13.00

MGO Seq Number: 3017234

MGO

Tech:

Analyst:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.83	4.92	mg/kg	05.14.17 18.18		1





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T4-11' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-041 Date Collected: 05.03.17 01.05 Sample Depth: 11 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.14.17 13.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.8	4.99	mg/kg	05.14.17 19.04		1





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: T4-16' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552580-042 Date Collected: 05.03.17 01.10 Sample Depth: 16 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.14.17 13.30 Seq Number: 3017230

Basis: Wet Weight

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 271
 4.92
 mg/kg
 05.14.17 19.27
 1



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	



QC Summary 552580

COG Operating LLC SRO STATE COM #48H

Analytical Method: Inorganic Anions by EPA 300/300.1 E300P Prep Method: Seq Number: 3017191 Matrix: Solid Date Prep: 05.13.17 LCS Sample Id: 724544-1-BKS LCSD Sample Id: 724544-1-BSD MB Sample Id: 724544-1-BLK

%RPD MB LCS LCS Limits RPD Spike LCSD **LCSD** Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec

20 05.13.17 17:06 Chloride < 5.00 250 241 96 245 98 90-110 2 mg/kg

Analytical Method: Inorganic Anions by EPA 300/300.1

E300P Prep Method: Seq Number: 3017234 Matrix: Solid Date Prep: 05.14.17

MB Sample Id: 724549-1-BLK LCS Sample Id: 724549-1-BKS LCSD Sample Id: 724549-1-BSD

LCS LCS Limits %RPD RPD MB Spike LCSD **LCSD** Units Analysis Flag **Parameter** Amount Result %Rec Limit Date Result Result %Rec Chloride < 5.00 250 252 101 255 102 90-110 20 mg/kg 05.14.17 14:38

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P Seq Number: 3017230 Matrix: Solid 05.14.17 Date Prep:

LCS Sample Id: 724559-1-BKS LCSD Sample Id: 724559-1-BSD MB Sample Id: 724559-1-BLK

LCS **RPD** MB Spike LCS LCSD LCSD Limits %RPD Units **Analysis** Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec 05.14.17 18:49 Chloride < 5.00 250 255 102 253 101 90-110 20 mg/kg

Analytical Method: Inorganic Anions by EPA 300/300.1

E300P Prep Method: Seq Number: 3017191 Soil Matrix: Date Prep: 05.13.17

552580-011 S Parent Sample Id: 552580-011 MS Sample Id: MSD Sample Id: 552580-011 SD

RPD Parent Spike MS MS MSD Limits %RPD Units **Analysis MSD** Flag **Parameter** Limit Result Amount Result %Rec Date Result %Rec Chloride 98.0 347 101 90-110 0 20 05.13.17 19:59 247 348 101 mg/kg

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P Matrix: Soil Seq Number: 3017234 Date Prep: 05.14.17

MS Sample Id: 552580-022 S Parent Sample Id: 552580-022 MSD Sample Id: 552580-022 SD

Parent Spike MS MS Limits %RPD **RPD** Units Analysis **MSD MSD** Flag **Parameter** Limit Result Date Result Amount %Rec Result %Rec

Chloride 6.48 247 258 102 255 101 90-110 2.0 05.14.17 15:01 mg/kg

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3017234 Matrix: Soil Date Prep: 05.14.17

MS Sample Id: 552580-033 S MSD Sample Id: 552580-033 SD Parent Sample Id: 552580-033

Parent Spike MS MS Limits %RPD **RPD** Units Analysis MSD **MSD Parameter** Flag Result %Rec Limit Result Amount Result %Rec Date 05.14.17 16:47 209 457 101 456 100 90-110 0 20 Chloride 246 mg/kg

Prep Method:

E300P



QC Summary 552580

COG Operating LLC SRO STATE COM #48H

MSD

289

Analytical Method: Inorganic Anions by EPA 300/300.1

E300P Prep Method:

Seq Number: 3017230

Matrix: Soil

Date Prep:

05.14.17

Parent Sample Id: 552580-041 MS Sample Id: 552580-041 S MSD Sample Id: 552580-041 SD

RPD

20

Units Analysis

Parameter

Chloride

Parent Spike Result Amount

250

14.8

26.8

MS %Rec Result 114

Limits **MSD** %Rec 110

%RPD 3

Limit

mg/kg

Date 05.14.17 19:12 X

Flag

Analytical Method: Inorganic Anions by EPA 300/300.1

Matrix: Soil Prep Method: Date Prep:

Date Prep:

RPD

Limit

20

E300P

05.14.17

Seq Number: Parent Sample Id: 3017230 552582-005

MS Sample Id: 552582-005 S

MSD Sample Id:

Units

mg/kg

552582-005 SD

Parameter

MS MS

MS

299

Result

MSD

Limits MSD %Rec

%RPD RPD

Analysis

Chloride

Parent

Spike Result Amount

244

Result %Rec 311 116 Result 296

110 90-110

90-110

Limit 5 20

Date

Flag 05.14.17 20:58 X

Analytical Method: Inorganic Anions by EPA 300/300.1 Seq Number:

3017191

Matrix: Soil

Prep Method:

E300P

05.15.17

Parent Sample Id:

552580-001

MS Sample Id:

244

552580-001 S

MSD

MSD Sample Id: 552580-001 SD

Analysis

Parameter Chloride

Seq Number:

o-Terphenyl

Parent Spike Result Amount

11000

MS MS Result %Rec 10700

MSD Result 10600

%Rec 0 90-110

Limits %RPD Units

mg/kg

Flag Date

X

Flag

Analytical Method: TPH By SW8015 Mod

3016765

Matrix: Solid

Prep Method:

TX1005P

05.08.17

MB Sample Id: 724267-1-BLK LCS Sample Id: 724267-1-BKS

Date Prep: LCSD Sample Id:

724267-1-BSD

Analysis

05.15.17 09:34

RPD LCS LCS %RPD MB Spike LCSD Limits Units Analysis **LCSD Parameter** Result Limit Result Amount %Rec Date Result %Rec 35 05.08.17 16:14 C6-C10 Gasoline Range Hydrocarbons <15.0 1000 1170 117 1170 70-135 0 117 mg/kg C10-C28 Diesel Range Hydrocarbons 70-135 05.08.17 16:14 <15.0 1000 1100 110 1120 112 2 35 mg/kg

116

Surrogate	MB	MB	LCS	LCS	LC
	%Rec	Flag	%Rec	Flag	%l
1-Chlorooctane	109		115		1:

118

LCSD Limits CSD Flag Rec 120 70-135 70-135 115

Date 05.08.17 16:14 % 05.08.17 16:14 %

Units

05.08.17 18:13

Flag

Seq Number:

C10-C28 Diesel Range Hydrocarbons

QC Summary 552580

COG Operating LLC SRO STATE COM #48H

1140

103

70-135

0

35

Analytical Method: TPH By SW8015 Mod

3016765 Matrix: Soil

999

1140

Parent Sample Id: 552561-001 MS Sample Id: 552561-001 S

110

Prep Method: TX1005P

Date Prep: 05.08.17 MSD Sample Id: 552561-001 SD

mg/kg

Parent Spike MS MS Limits %RPD RPD **MSD MSD** Units Analysis Flag **Parameter** Amount Result %Rec Limit Date Result Result %Rec C6-C10 Gasoline Range Hydrocarbons 18.9 999 70-135 mg/kg 05.08.17 18:13 1030 101 986 97 4 35

MS MS **MSD MSD** Limits Units Analysis **Surrogate** Flag %Rec %Rec Flag Date 1-Chlorooctane 107 97 70-135 % 05.08.17 18:13 o-Terphenyl 103 85 70-135 % 05.08.17 18:13

103

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Seq Number: 3016772 Matrix: Solid Date Prep: 05.08.17
MB Sample Id: 724253-1-BLK LCS Sample Id: 724253-1-BKS LCSD Sample Id: 724253-1-BSD

%RPD RPD MB LCS LCS Units Spike Limits Analysis LCSD **LCSD Parameter** Result Amount Result %Rec %Rec Limit Date Result < 0.00199 0.0994 0.0954 96 0.0967 70-130 35 05.08.17 19:22 Benzene 97 1 mg/kg 05.08.17 19:22 Toluene < 0.00199 0.0994 0.0995 100 0.111 111 70-130 11 35 mg/kg 05.08.17 19:22 0.0994 92 0.0937 71-129 35 Ethylbenzene < 0.00199 0.0915 94 2 mg/kg 70-135 05.08.17 19:22 m,p-Xylenes < 0.00398 0.199 0.180 90 0.182 91 1 35 mg/kg o-Xylene < 0.00199 0.0994 0.0944 95 0.0975 98 71-133 3 35 05.08.17 19:22 mg/kg

LCSD MB MB LCS LCS LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 05.08.17 19:22 1.4-Difluorobenzene 119 101 104 80-120 % 05.08.17 19:22 4-Bromofluorobenzene 110 101 103 80-120 %

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Seq Number: 3017044 Matrix: Solid Date Prep: 05.08.17

MB Sample Id: 724323-1-BLK LCS Sample Id: 724323-1-BKS LCSD Sample Id: 724323-1-BSD

MB LCS LCS Limits %RPD **RPD** Spike LCSD LCSD Units Analysis Flag **Parameter** Result Amount Result %Rec Limit Date Result %Rec 05.09.17 07:15 0.0942 94 0.0942 0 35 Benzene < 0.00200 0.0998 94 70-130 mg/kg 05.09.17 07:15 Toluene < 0.00200 0.0998 0.0964 97 0.101 101 70-130 5 35 mg/kg 0.0998 0.0938 0.0898 71-129 05.09.17 07:15 Ethylbenzene < 0.00200 94 90 4 35 mg/kg 0.186 < 0.00399 0.200 93 0.186 93 70-135 0 35 05.09.17 07:15 m,p-Xylenes mg/kg 05.09.17 07:15 < 0.00200 0.0998 0.0996 100 0.103 103 71-133 35 o-Xylene 3 mg/kg

MB LCS LCS LCSD MB LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date 1,4-Difluorobenzene 104 97 101 80-120 % 05.09.17 07:15 4-Bromofluorobenzene 92 85 106 80-120 % 05.09.17 07:15

05.08.17



QC Summary 552580

COG Operating LLC SRO STATE COM #48H

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

3016772 Seq Number: Parent Sample Id: 552561-001

Matrix: Soil Date Prep: MS Sample Id: 552561-001 S MSD Sample Id: 552561-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0743	74	0.0770	76	70-130	4	35	mg/kg	05.08.17 19:54	
Toluene	< 0.00202	0.101	0.0704	70	0.0884	88	70-130	23	35	mg/kg	05.08.17 19:54	
Ethylbenzene	0.00751	0.101	0.0627	55	0.0780	70	71-129	22	35	mg/kg	05.08.17 19:54	X
m,p-Xylenes	0.0417	0.202	0.151	54	0.162	60	70-135	7	35	mg/kg	05.08.17 19:54	X
o-Xylene	0.0179	0.101	0.0868	68	0.0875	69	71-133	1	35	mg/kg	05.08.17 19:54	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	120		118		80-120	%	05.08.17 19:54
4-Bromofluorobenzene	116		112		80-120	%	05.08.17 19:54

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B Seq Number: 3017044 Matrix: Soil Date Prep: 05.08.17 Parent Sample Id: 552582-003 MS Sample Id: 552582-003 S MSD Sample Id: 552582-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.0725	73	0.0485	48	70-130	40	35	mg/kg	05.09.17 07:47	XF
Toluene	< 0.00200	0.0998	0.0639	64	0.0348	34	70-130	59	35	mg/kg	05.09.17 07:47	XF
Ethylbenzene	< 0.00200	0.0998	0.0539	54	0.0289	29	71-129	60	35	mg/kg	05.09.17 07:47	XF
m,p-Xylenes	< 0.00399	0.200	0.105	53	0.0505	25	70-135	70	35	mg/kg	05.09.17 07:47	XF
o-Xylene	< 0.00200	0.0998	0.0597	60	0.0353	35	71-133	51	35	mg/kg	05.09.17 07:47	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		91		80-120	%	05.09.17 07:47
4-Bromofluorobenzene	105		95		80-120	%	05.09.17 07:47

Stafford, Texas (281-240-4200) Setting the Standard since 1990

Midland, Texas (432-704-5251) San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

	TO THE PARTY AND			
	- Control of the Cont		Analytical Information	Matrix Codes
	Project Information			
ω P	oject Name/Number: RO STATE COM #48H			W = Water
סד מ	oject Location:			GW =Ground Water DW = Drinking Water
8-1553	1.00 581			SW = Sludge water SL = Sludge
	100		de	WI = Wipe
	Number:		2i	O = Oil
		er of preserved bottles	E)	A = Air
	# O.		ST Chlo	
	Matrix potties T	H: Ni		rield Comments
-	2 2 2		()	
) -	+	×	×	
2	9:374		×	
3	9:40 Am		×	
エ	9:429		×.	
6	9:45 Am 1		×	
8	9:479		×	
10	9:50 pm 1	0	×,	
12	1 wees:b		×,	
14	9:54 900 1		×	
THE PERSON NAMED IN		tion	Notes:	
5 Day TAT	Level II Std QC	Level IV (Full Data Pkg /raw da	ta)	
7 Day TAT	Level III Std QC+ Forms	TRRP Level IV		
Contract TAT	Level 3 (CLP Forms)	UST / RG -411		2 10
	TRRP Checklist			
ceived by 5:00 pm				FED-EX / UPS: Tracking #
SAMPLE CUSTODY MUST BE DO	CUMENTED BELOW EACH TIME SAMPLES CHANGE PO	DISSESSION, INCLUDING COURIER DELIV	Date Time:	
S/S/17	11190 Received By: 11:00 M	Relinquished By:	Date Time: R	Received By MAN AND COLOR
Date Time:	Received By:	Relinquished By:	Date Time: R	Received BY: Fremp: 7 IR ID:R-9
Date Time:	Received By:	Custody Seal #	Preserved where applicable	On ce Corrected Temp:
	Cilient / Reporting Information Name / Branch: Operating LLC Namy Address: 2407 PECOS Avenue Ariesia NM 88270 Field ID / Point of Collection Sample Depth TI - 2' TI - 3' TI - 10' Turnaround Time (Business days) Same Day EMERGENCY Day EMERGENCY TAT Starts Day received by Lab, if received by 5:00 pm Same Day Emergency Date Time: Date Time: Date Time: Date Time: Date Time:	Project Name/Number: SRO STATE COM #48H Project Location: SRO STATE CO	Project NameMark SPO STATE COM# #48H Project NameMark SPO STATE COM# #48H Project NameMark SPO STATE COM# #48H Project NameMark Seample Date Time Matrix Bottless Time Namber of preserved bottles Time Name of State Time Time Time Name of State Time Time Time Name of State Time Name of Stat	Project Information

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CHAIN OF CUSTODY

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

		www.xenco.com	.com	Series Master		C	ろりつつつ
					Analytical Information	rmation	Matrix Codes
Client / Reporting Information		Project Information					
Company Name / Branch: COG Operating LLC	Project Name/Number: SRO STATE COM #48H	ber: DM #48H					W = Water S = Soil/Sed/Soild
Company Address: 2407 PECOS Avenue Artesia NM 88210	Project Location:						GW =Ground Water DW = Drinking Water
Email: Phone No: 575.748-1553 <u>alieb@concho.com</u> dneel2@concho.com rhaskell@concho.com	Invoice To: COO	COG Operating LLC Attn: Robert Mcneill					SW = Sludge water SL = Sludge OW-Decay(Sc Water)
Project Contact: Aaron Lieb		Midland TX 79701			e		WI = Wipe
Samplers's Name- Aaron Lieb	PO Number:				'cl		O = Oil
	Collection		Number of preserved bottles	red bottles	EX		A = Air
No. Field ID / Point of Collection San	Sample Date Tir	Time Matrix bottles	NaOH/Zn Acetate HNO3 H2SO4	NaHSO4 MEOH NONE	BTE Chlo		Field Comments
1 71-18	5/3/17 9/	2	2	1	×		
-	5/3/17				×>		
3 T2- SURF -	-	05		×	× × ;		
4 72- 1'	10:10	10		×	×:		
5 ブネー マー	1 10:13	/3			×		
· 72 - 3'		15 1			Χ,		
12					\ \ \		
× × × × × × × × × × × × × × × × × × ×		022			×,×		
10 72 - 10' 10	-	1 54			X		
Turnaround Time (Business days)		Data Delivera	Data Deliverable Information			Notes:	
Same Day TAT 5 Day TAT	П	Level II Std QC	Level	Level IV (Full Data Pkg /raw data)	data)		
■ Next Day EMERGENCY ■7 Day TAT	П	Level III Std QC+ Forms		TRRP Level IV			
2 Day EMERGENCY Contract TAT	П	Level 3 (CLP Forms)	Ust/	UST / RG -411			
3 Day EMERGENCY	П	TRRP Checklist					
TAT Starts Day received by Lab, if received by 5:00 pm	3					FED-EX / UPS: Tracking #	
Relinquished by Sampler: SAMPLE CUSTODY MUS	Date Time: Rec	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Date Time: Received By:	CHANGE POSSESSION, II	NCLUDING COURIER DE	Date Time:	Received By:	DAMICE
Relinquished by: Date Time: Received By: Relinquished By: Relinquished By: Date Time: Received By: Temp: 5 IR ID:R-9 and CF:(0-6:0.0°C) 1.6.0°C) 1.6.0°C	Time: Rec	eived By:	Relinqu	uished By:	Date Time:	Received By:	Temp: 5 IR ID:F
Relinquished by: Date 5	Time: Rec	eived By:	Custod	y Seal #	Preserved where appl	icable On Ice	Corrected Temp: 3

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Phoenix, Arizona (480-355-0900)

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Stafford, Texas (281-240-4200) Setting the Standard since 1990

Dallas Texas (214-902-0300)

Midland, Texas (432-704-5251) San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY

Phoenix, Arizona (480-355-0900)

Final 1.000

Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any esponsibility for losses or expenses incurred by the Client if such loses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms are incorrect unless previously negotiated under a fully executed client contract. Email: COG Operating LLC Company Name / Branch: No. Samplers's Name- Aaron Lieb Project Contact: Aaron Lieb 6 9 Relinquished by: Relinquished by: Relinquished by Sampler: Same Day TAT TAT Starts Day received by Lab, if received by 5:00 pm 3 Day EMERGENCY 2 Day EMERGENCY 2407 PECOS Avenue **Next Day EMERGENCY** 11 alieb@concho.com dneel2@concho.com rhaskell@concho.com Client / Reporting Information İ 11 I 1 Turnaround Time (Business days) 1 Jains 22 I Field ID / Point of Collection Artesia NM 88210 7 Day TAT Contract TAT 5 Day TAT Phone No: 575-748-1553 AMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY 5/5//7 Date Time: Date Time: Daty Time: 44 P W Sample 1 J 5/3/17 58 SRO STATE COM #48H Project Location: PO Number Invoice To: SRO STATE COM # Project Name/Number: Collection 11:00 Received By: 12:35 12:45 12:50 11:55 05:11 12:58 12:55 12:42 12:40 11:45 COG Operating LLC Received By: Received By: Midland TX 79701 600 W. Illinois Attn: Robert Mcneill Level II Std QC Project Information Level 3 (CLP Forms) TRRP Checklist Level III Std QC+ Forms Matrix 5 www.xenco.com Data Deliverable Information # of HCI Relinquished By: NaOH/Zn Acetate HN03 Relinquished By: 12504 Custody Seal # UST / RG -411 TRRP Level IV Level IV (Full Data Pkg /raw data) NaOH NaHSO4 МЕОН Xenco Quote # Preserved where applicable X Date Time: Date Time: Analytical Information FED-EX / UPS: Tracking # Notes: Xenco Job # Corrected Temp: 3 CF:(0.6: 0.0°C) (6-23: +0.1°C) Temp: Field Comments 0 = 01 SL = Sludge SW = Surface water P = Product DW = Drinking Water GW =Ground Water S = Soil/Sed/Solid W = Water WI = Wipe OW =Ocean/Sea Water A = AirWW= Waste Water Matrix Codes IR ID.R-9 Released to Imaging: 11/21/2022 10:41:55 AM

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Setting the Standard since 1990

Stafford, Texas (281-240-4200) Dallas Texas (214-902-0300)

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

Final 1.000

moo.com	Xenco Quote #
	Analytical Information
Project Information	
Project Name/Number: SRO STATE COM #48H	
Project Location: SRO SYATE COM #	
Phone No: 575-748-1553 Invoice To: COG Operating LLC Altn: Robert Mcneill Altnoise	
1	cle
ro williber:	
	<i>†</i>
	Number of preserved bottles
Date Time Matrix bollles ICI IaOH/Zn ccetate INO3	IZSO4 IAOH IAHSO4 IEOH IONE TP
5/3/17 /:05 5 1	
5/3/17/11/0	
Data Deliverable Information	Notes:
T Level II Std QC	Level IV (Full Data Pkg /raw data)
Level III Std QC+ Forms	TRRP Level IV
TAT Level 3 (CLP Forms)	UST / RG -411
TRRP Checklist	
y 5:00 pm	FED.
Date Time: //ead Received By: Italy Time: //ead Received By:	SSION, INCLUDING COURIER DELIVERY Relinquished By: Date Time:
5/5/17 my was butter 5-5-17 2	2
Date Time: Received By: R	Relinquished By: Date Time:
Date Time: Received By:	Custody Seal # Preserved where appli
	Sample Depth Date Time Matrix bottles E Documents BE Documented By: Date Time: Received By: Project Name/Number: Project Information Project Information: Project Information: Project Information: Project Information: Project Information: Afth: Robert Mcneill 600 W. Illinois Midland TX 79701 # of Depth Date Time Matrix bottles Depth Date Time Data Deliverable Data Del

Page 63 of 64



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: COG Operating LLC

Date/ Time Received: 05/05/2017 11:00:00 AM

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Work Order #: 552580

Temperature Measuring device used: R9

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		3.1
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seal present on shipping co	ontainer/ cooler?	N/A
#5 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#6 Custody Seals intact on sample bottle	es?	N/A
#7 *Custody Seals Signed and dated?		N/A
#8 *Chain of Custody present?		Yes
#9 Sample instructions complete on Cha	in of Custody?	Yes
#10 Any missing/extra samples?		No
#11 Chain of Custody signed when relind	quished/ received?	Yes
#12 Chain of Custody agrees with sampl	e label(s)?	Yes
#13 Container label(s) legible and intact?	?	Yes
#14 Sample matrix/ properties agree with	n Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	•	Yes
#16 Samples properly preserved?		Yes
#17 Sample container(s) intact?		Yes
#18 Sufficient sample amount for indicate	ed test(s)?	Yes
#19 All samples received within hold time	e?	Yes
#20 Subcontract of sample(s)?		N/A
#21 VOC samples have zero headspace		N/A
#22 <2 for all samples preserved with HN samples for the analysis of HEM or HEM-analysts.		N/A
#23 >10 for all samples preserved with N	laAsO2+NaOH, ZnAc+NaOH?	N/A
* Must be completed for after-hours de		the refrigerator
Analyst:	PH Device/Lot#:	
Checklist completed by:	Jessica Warner	Date: 05/08/2017
	Jessica Kramer	
Checklist reviewed by:	Liz Givens	Date: <u>05/08/2017</u>

Certificate of Analysis Summary 552581

COG Operating LLC, Artesia, NM

Project Name: SRO STATE COM #48H

Date Received in Lab: Fri May-05-17 11:00 am

Report Date: 15-MAY-17

Project Manager: Liz Givens

	Lab Id:	552581-001	552581-002	552581-003	552581-004	
A walnuis Dogwood	Field Id:	BG-5'	BG-10'	BG-15'	BG-20'	
Analysis Nequesieu	Depth:	5 ft	10 ft	15 ft	20 ft	
	Matrix:	SOIL	SOIL	SOIL	SOIL	
	Sampled:	May-03-17 13:30	May-03-17 13:35	May-03-17 13:40	May-03-17 13:45	
Inorganic Anions by EPA 300/300.1	Extracted:	Extracted: May-14-17 13:30	May-14-17 13:30	May-14-17 13:30	May-14-17 13:30	
	Analyzed:	May-14-17 19:34	May-14-17 19:42	May-14-17 19:50	May-14-17 20:12	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		<49.0 49.0	<24.4 24.4	<24.6 24.6	47.6 4.99	

Grand Lectionson

Brandi Ritcherson Project Manager

Final 1.000

Page 1 of 13

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and mis as no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

SRO STATE COM #48H

Project Location:

Project Id: Contact:

Aaron Lieb

Analytical Report 552581

for COG Operating LLC

Project Manager: Aaron Lieb SRO STATE COM #48H

15-MAY-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





15-MAY-17

Project Manager: Aaron Lieb COG Operating LLC 2407 Pecos Avenue Artesia, NM 88210

Reference: XENCO Report No(s): **552581 SRO STATE COM #48H**

Project Address: SRO STATE COM #48H

Aaron Lieb:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 552581. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 552581 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Grand'

Brandi Ritcherson

Project Manager

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Sample Cross Reference 552581



COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BG-5'	S	05-03-17 13:30	- 5 ft	552581-001
BG-10'	S	05-03-17 13:35	- 10 ft	552581-002
BG-15'	S	05-03-17 13:40	- 15 ft	552581-003
BG-20'	S	05-03-17 13:45	- 20 ft	552581-004

CASE NARRATIVE

Client Name: COG Operating LLC Project Name: SRO STATE COM #48H

Project ID: Report Date: 15-MAY-17 Work Order Number(s): 552581 Date Received: 05/05/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Final 1.000





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: BG-5' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552581-001 Date Collected: 05.03.17 13.30 Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.14.17 13.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<49.0	49.0	mg/kg	05.14.17 19.34	U	10





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: BG-10' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552581-002 Date Collected: 05.03.17 13.35 Sample Depth: 10 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.14.17 13.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<24.4	24.4	mg/kg	05.14.17 19.42	U	5





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: BG-15' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552581-003 Date Collected: 05.03.17 13.40 Sample Depth: 15 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.14.17 13.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Un	nits	Analysis Date	Flag	Dil
Chloride	16887-00-6	<24.6	24.6	mg	g/kg	05.14.17 19.50	U	5





COG Operating LLC, Artesia, NM

SRO STATE COM #48H

Sample Id: BG-20' Matrix: Soil Date Received:05.05.17 11.00

Lab Sample Id: 552581-004 Date Collected: 05.03.17 13.45 Sample Depth: 20 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: MGO % Moisture:

Analyst: MGO Date Prep: 05.14.17 13.30 Seq Number: 3017230

Wet Weight

Basis:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 47.6
 4.99
 mg/kg
 05.14.17 20.12
 1



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	



QC Summary 552581

COG Operating LLC SRO STATE COM #48H

Analytical Method: Inorganic Anions by EPA 300/300.1

E300P Prep Method:

Seq Number:

3017230

Matrix: Solid

Date Prep:

RPD

05.14.17

MB Sample Id:

724559-1-BLK

LCS Sample Id: 724559-1-BKS

LCSD Sample Id: 724559-1-BSD

Analysis Units Flag

Parameter

MB Result Amount

LCS LCS Result %Rec

LCSD LCSD %Rec Result

%RPD Limits

Limit 20

Date

Chloride

< 5.00

Parent

Result

14.8

26.8

Spike

250

255

299

311

253

101 90-110

mg/kg

05.14.17 18:49

Analytical Method: Inorganic Anions by EPA 300/300.1

Matrix: Soil

102

Prep Method: Date Prep:

E300P

Seq Number:

3017230

MSD Sample Id:

05.14.17

Units

mg/kg

Parent Sample Id:

552580-041

MS Sample Id: 552580-041 S

RPD %RPD

552580-041 SD

Analysis

Parameter Chloride

Spike MS Amount Result

250

MS %Rec 114

MSD Result

289

Limits MSD %Rec 110 90-110

Limit 3 20

Date

Flag 05.14.17 19:12 Χ

Analytical Method: Inorganic Anions by EPA 300/300.1

Parent Sample Id:

E300P Prep Method:

Seq Number:

3017230

Matrix: Soil

MSD

Date Prep:

05.14.17

Parameter

552582-005

MS Sample Id: 552582-005 S

MSD Sample Id: 552582-005 SD RPD %RPD Units

Analysis

Chloride

MS Parent Spike Result Result Amount

244

MS %Rec 116

Result %Rec 296

MSD

110 90-110

Limits

Limit 20 5

mg/kg

Flag Date 05.14.17 20:58 X

Stafford, Texas (281-240-4200) Setting the Standard since 1990

CHAIN OF CUSTODY

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

Dallas Texas (214-902-0300)	Midland, Texas (432-704-5251)		
	www.xenco.com	Xenco Quote # Xenco Job #	552581
		Analytical Information	Matrix Codes
Client / Reporting Information	Project Information		
Company Name / Branch: COG Operating LLC	Project Name/Number: SRO STATE COM #48H		W = Water
Company Address: 2407 PECOS Avenue Ariesia NM 88210	Project Location:		GW = Ground Water DW = Drinking Water
	10		P = Product
Alieb@concho.com dneel2@concho.com rhaskell@concho.com	Invoice 10: COG Operating LLC Attn: Robert Mcneill 600 W Illinois	<u>e</u>	SW = Surface water SL = Sludge
Project Contact: Aaron Lieb		id	WI = Wipe
Samplers's Name- Aaron Lieb	PO Number:	21	O ■ Oil
	Collection Number of preserved bottles	,	A = Air
No. Field ID / Point of Collection Sample Depth	Date Time Matrix bottles T	NaOH NaHSO4 MEOH NONE	Field Comments
1 8.6, - 5'	5/3/17 1:30 5 1		THE COLUMN TWO
2 B.G 10' 10	1 (:35	<,;	
3 B.G 15'	1:40	*;	
4 B.C 20' 20		*	
Ch			
6			
7			
8			
9			
10			
Turnaround Time (Business days)	Data Deliverable Information	Notes:	M
Same Day TAT 5 Day TAT	Level II Std QC	Level IV (Full Data Pkg /raw data)	5 A
Next Day EMERGENCY 7 Day TAT	Level III Std QC+ Forms TRR	TRRP Level IV	41:
2 Day EMERGENCY Contract TAT	Level 3 (CLP Forms) UST	UST / RG -411	10.
3 Day EMERGENCY	TRRP Checklist		0222
TAT Starts Day received by Lab, if received by 5:00 pm		FED-EX / UPS: Tracking #	-
Sampler;	Date Time: //: 00 Received By: 5/5/17 /m 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	v. INCLUDING COURIER DELIVERRY Iquished By: Date Time: Received By:	MAMOR
Relinquished by: V Date Time:	Received By:	: Date Time:	CF:(0-6: 0.0°C) (6-23: -1.10)
Relinquished by: Date Time:	me: Received By: Custo	Custody Seal # Preserved where applicable	On the Corrected Temp: 3.
vitice; Notice: Signature of this document and relinquishment of samples constitutes a vali sses or expenses incurred by the Client if such loses are due to circumstances beyond the Il be enforced unless previously negotiated under a fully executed client contract.	d purchase order from client company to Xenco, its affiliates and subconfractor econtrol of Xenco. A minimum charge of \$75 will be applied to each project. Xe	ors. Il assigns standard terms and conditions of service. Xenco will be liable only kenco's liability will be limited to the cost of samples. Any samples received by X	for the cost of samples and shall not assume any responsibility for any enbo but not analyzed will be invoiced at \$5 per sample. These terms
Relea			Relea



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: COG Operating LLC

Date/ Time Received: 05/05/2017 11:00:00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 552581

Temperature Measuring device used: R9

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		3.1
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seal present on shipping co	ontainer/ cooler?	N/A
#5 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#6 Custody Seals intact on sample bottle	es?	N/A
#7 *Custody Seals Signed and dated?		N/A
#8 *Chain of Custody present?		Yes
#9 Sample instructions complete on Cha	in of Custody?	Yes
#10 Any missing/extra samples?		No
#11 Chain of Custody signed when relind	quished/ received?	Yes
#12 Chain of Custody agrees with sampl	e label(s)?	Yes
#13 Container label(s) legible and intact	?	Yes
#14 Sample matrix/ properties agree with	n Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	•	Yes
#16 Samples properly preserved?		Yes
#17 Sample container(s) intact?		Yes
#18 Sufficient sample amount for indicat	ed test(s)?	Yes
#19 All samples received within hold time	e?	Yes
#20 Subcontract of sample(s)?		N/A
#21 VOC samples have zero headspace	?	N/A
#22 <2 for all samples preserved with HN samples for the analysis of HEM or HEM-		N/A
analysts. #23 >10 for all samples preserved with N	laAsO2+NaOH, ZnAc+NaOH?	N/A
* Must be completed for after-hours de	livery of samples prior to placing in	the refrigerator
must be completed for after-floars de	invery or sumples prior to placing in	i ilic remigerator
Analyst:	PH Device/Lot#:	
Checklist completed by:	Jessica Vermer	Date: 05/08/2017
	Jessica Kramer	
Checklist reviewed by:	X · A · ·	
onecklist reviewed by.	Liz Givens	Date: 05/08/2017

Certificate of Analysis Summary 552582 COG Operating LLC, Artesia, NM

Project Name: SRO State Com #48H

Date Received in Lab: Fri May-05-17 11:00 am

Report Date: 15-MAY-17 Project Manager: Liz Givens

Analysis Requested Field Id: Depti: D		Lab Id:	552582-001	552582-002	552582-003	552582-004	552582-005	552582-006
### SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL	And Incia Dogwood	Field Id:	North-Surf	North-1'	East-Surf	East-1'	West-Surf	West-1'
BTEX by EPA 8021B Sont SOIL May-03-17 14:00 May-03-17 14:00 May-03-17 16:00 May-03-17 16:00 <th>Analysis Nequesieu</th> <th>Depth:</th> <th></th> <th>1 ft</th> <th></th> <th>1 ft</th> <th></th> <th>1 ft</th>	Analysis Nequesieu	Depth:		1 ft		1 ft		1 ft
BTEX by EPA 8021B Extracted: May-03-17 13:55 May-03-17 13:55 May-03-17 13:55 May-03-17 13:55 May-03-17 14:10 May-03-17 14:10 BTEX by EPA 8021B Extracted: May-08-17 02:35 May-08-17 12:23 May-09-17 12:35 May-09-17 12:30 May-09-17 12:40 May-09-17 12:40 e Conits/RL mg/kg RL		Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
BTEX by EPA 8021B Extracted: May-08-17 09:00 May-08-17 16:00 May-14-17 16:		Sampled:		May-03-17 13:55	May-03-17 14:05	May-03-17 14:10	May-03-17 14:20	May-03-17 14:25
Analyzed: May-09-17 02:35 May-09-17 12:23 May-09-17 12:23 May-09-17 12:24 May-09-17 12:24 Chits/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg RL e -0.00339 0.00339 -0.00201 0.00200 -0.00200 -0.00200 -0.00200 -0.00200 s -0.00339 0.00339 -0.00201 0.00201 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.00200 -0.0020	BTEX by EPA 8021B	Extracted:	May-08-17 09:00	May-08-17 16:00				
Compace Comp		Analyzed:	May-09-17 02:35	May-09-17 12:23	May-09-17 08:51	May-09-17 12:40	May-09-17 12:56	May-09-17 13:12
e		Units/RL:					mg/kg RL	mg/kg RL
e	Benzene						<0.00199 0.00199	<0.00200 0.00200
Colore C	Toluene						<0.00199 0.00199	<0.00200 0.00200
Compace Comp	Ethylbenzene						<0.00199 0.00199	0.00238 0.00200
Companies Comp	m,p-Xylenes						<0.00398 0.00398	<0.00399 0.00399
s:	o-Xylene						<0.00199 0.00199	<0.00200 0.00200
nic Anions by EPA 300/300.1 Extracted: May-14-17 13:30 May-14-17 20:28 May-14-17 20:38 May-14-17 20:39 May-14-17 20:30	Total Xylenes						<0.00199 0.00199	<0.00200 0.00200
300/300.1 Extracted: May-14-17 13:30 May-14-17 13:30 May-14-17 13:30 May-14-17 13:30 May-14-17 13:30 Analyzed: May-14-17 20:20 May-14-17 20:28 May-14-17 20:35 May-14-17 20:35 May-14-17 20:35 Iod Extracted: May-09-17 07:00 May-09-17 07:00 May-09-17 07:00 May-09-17 07:00 May-09-17 07:00 s Vnits/RL: mg/kg RL mg/kg RL mg/kg RL s 100 Extracted: May-09-17 07:00 May-09-17 07:00 May-09-17 07:00 May-09-17 07:00 Analyzed: mg/kg RL mg/kg RL mg/kg RL s 15:0	Total BTEX			<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	0.00238 0.00200
Analyzed: May-14-17 20:28 May-14-17 20:35 May-14-17 20:43 Units/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg RL Iod Extracted: May-09-17 07:00 May-09-17 07:00 May-09-17 07:00 May-09-17 07:00 May-09-17 07:00 May-09-17 07:00 s Vnits/RL: mg/kg RL mg/kg RL mg/kg RL s s	Inorganic Anions by EPA 300/300.1	Extracted:		May-14-17 13:30				
Inits/RL mg/kg RL mg/kg RL mg/kg RL mg/kg RL Iod Extracted: May-09-17 07:00 s Vnits/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg RL s s		Analyzed:	May-14-17 20:20	May-14-17 20:28	May-14-17 20:35	May-14-17 20:43	May-14-17 20:50	May-14-17 21:13
Iod Extracted: May-09-17 07:00 May-09-17 10:32 May-09-17 07:00		Units/RL:					mg/kg RL	mg/kg RL
Iod Extracted: May-09-17 07:00 May-09-17 07:00 May-09-17 07:00 May-09-17 07:00 May-09-17 07:00 May-09-17 07:00 s Units/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg RL s <15.0 15.0 <15.0 15.0 <15.0 15.0 <15.0 15.0	Chloride						26.8 4.88	<4.99 4.99
Analyzed: May-09-17 08:50 May-09-17 09:52 May-09-17 10:12 May-09-17 10:32 S Units/RL: mg/kg RL mg/kg RL mg/kg RL s <15.0 15.0 <15.0 15.0 <15.0 15.0 c15.0 15.0 <15.0 15.0 <15.0 <15.0 15.0	TPH By SW8015 Mod	Extracted:	May-09-17 07:00	May-09-17 07:00	May-09-17 07:00	May-09-17 07:00	May-09-17 07:00	May-09-17 07:00
s Units/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg RL mg/kg s <15.0 15.0 <15.0 15.0 <15.0 <15.0 c <15.0 15.0 <15.0 <15.0 <15.0		Analyzed:	May-09-17 08:50	May-09-17 09:52	May-09-17 10:12	May-09-17 10:32	May-09-17 10:52	May-09-17 11:11
s <15.0 15.0 <15.0 15.0 <15.0 15.0 <15.0 15.0 <15.0 15.0 <15.0 <15.0 15.0 <15.0 <15.0 <15.0		Units/RL:					mg/kg RL	mg/kg RL
<15.0	C6-C10 Gasoline Range Hydrocarbons						<15.0 15.0	<15.0 15.0
	C10-C28 Diesel Range Hydrocarbons						<15.0 15.0	<15.0 15.0
Total TPH <15.0 15.0 <15.0 15.0 <15.0 15.0 <15.0 15.0 <15.0 15.0	Total TPH						<15.0 15.0	<15.0 15.0

Grand Lectionson

Brandi Ritcherson Project Manager

Final 1.000

Page 1 of 17

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and mis as no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

SRO State Com #48H

Aaron Lieb

Analytical Report 552582

for COG Operating LLC

Project Manager: Aaron Lieb SRO State Com #48H

15-MAY-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





15-MAY-17

Project Manager: Aaron Lieb COG Operating LLC 2407 Pecos Avenue Artesia, NM 88210

Reference: XENCO Report No(s): 552582

SRO State Com #48H

Project Address: SRO State Com #48H

Aaron Lieb:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 552582. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 552582 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Grand'

Brandi Ritcherson

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 552582



COG Operating LLC, Artesia, NM

SRO State Com #48H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
North-Surf	S	05-03-17 13:55	N/A	552582-001
North-1'	S	05-03-17 13:55	- 1 ft	552582-002
East-Surf	S	05-03-17 14:05	N/A	552582-003
East-1'	S	05-03-17 14:10	- 1 ft	552582-004
West-Surf	S	05-03-17 14:20	N/A	552582-005
West-1'	S	05-03-17 14:25	- 1 ft	552582-006

CASE NARRATIVE

Client Name: COG Operating LLC Project Name: SRO State Com #48H

Project ID: Report Date: 15-MAY-17
Work Order Number(s): 552582 Date Received: 05/05/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3016772 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3017044 BTEX by EPA 8021B

Lab Sample ID 552582-003 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 552582-002, -003, -004, -005, -006.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.

Samples in the analytical batch are: 552582-002, -003, -004, -005, -006

Batch: LBA-3017230 Inorganic Anions by EPA 300/300.1

Lab Sample ID 552582-005 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 552582-001, -002, -003, -004, -005, -006.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.





COG Operating LLC, Artesia, NM

SRO State Com #48H

Sample Id: **North-Surf**

Soil Matrix:

Date Received:05.05.17 11.00

Lab Sample Id: 552582-001

Date Collected: 05.03.17 13.55

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P % Moisture:

Tech:

MGO

Wet Weight

Analyst:

MGO

Date Prep:

05.14.17 13.30

Basis:

Seq Number: 3017230

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.7	4.95	mg/kg	05.14.17 20.20		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

05.09.17 07.00 Date Prep:

Basis:

Wet Weight

Seq Number: 3016886

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.09.17 08.50	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.09.17 08.50	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.09.17 08.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-135	05.09.17 08.50		
o-Terphenyl		84-15-1	97	%	70-135	05.09.17 08.50		

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ

% Moisture:

Basis: Wet Weight

ALJ Analyst: Seq Number: 3016772

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00339	0.00339		mg/kg	05.09.17 02.35	U	1
Toluene	108-88-3	< 0.00339	0.00339		mg/kg	05.09.17 02.35	U	1
Ethylbenzene	100-41-4	< 0.00339	0.00339		mg/kg	05.09.17 02.35	U	1
m,p-Xylenes	179601-23-1	< 0.00678	0.00678		mg/kg	05.09.17 02.35	U	1
o-Xylene	95-47-6	< 0.00339	0.00339		mg/kg	05.09.17 02.35	U	1
Total Xylenes	1330-20-7	< 0.00339	0.00339		mg/kg	05.09.17 02.35	U	1
Total BTEX		< 0.00339	0.00339		mg/kg	05.09.17 02.35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	99	%	80-120	05.09.17 02.35		
1,4-Difluorobenzene		540-36-3	108	%	80-120	05.09.17 02.35		

Date Prep:

05.08.17 09.00





COG Operating LLC, Artesia, NM

SRO State Com #48H

Soil

Sample Id: North-1' Matrix:

Date Received:05.05.17 11.00

Lab Sample Id: 552582-002 Date Collected: 05.03.17 13.55 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MGO % Moisture:

MGO Analyst:

Date Prep: 05.14.17 13.30

Basis: Wet Weight

Seq Number: 3017230

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.93	4.93	mg/kg	05.14.17 20.28	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

05.09.17 07.00 Date Prep:

Basis: Wet Weight

Seq Number: 3016886

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.09.17 09.52	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.09.17 09.52	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.09.17 09.52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	98	%	70-135	05.09.17 09.52		
o-Terphenyl		84-15-1	101	%	70-135	05.09.17 09.52		

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Date Prep:

Tech: ALJ

Analyst:

% Moisture: 05.08.17 16.00

Seq Number: 3017044

ALJ

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	05.09.17 12.23	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	05.09.17 12.23	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	05.09.17 12.23	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	05.09.17 12.23	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	05.09.17 12.23	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	05.09.17 12.23	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	05.09.17 12.23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	118	%	80-120	05.09.17 12.23		
1,4-Difluorobenzene		540-36-3	112	%	80-120	05.09.17 12.23		

Basis:

Wet Weight





COG Operating LLC, Artesia, NM

SRO State Com #48H

Sample Id: East-Surf

Matrix: Soil

Date Received:05.05.17 11.00

Lab Sample Id: 552582-003

Date Collected: 05.03.17 14.05

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

% Moisture:

Tech: MGO

Analyst:

MGO

Date Prep: 05.14.17 13.30

Basis:

Wet Weight

Seq Number: 3017230

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.0	4.87	mg/kg	05.14.17 20.35		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech:

Analyst:

ARM ARM

Date Prep: 05.09.17 07.00

Basis:

Wet Weight

Seq Number: 3016886

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.09.17 10.12	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.09.17 10.12	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.09.17 10.12	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-135	05.09.17 10.12		
o-Terphenyl		84-15-1	98	%	70-135	05.09.17 10.12		

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: AL.

Analyst:

ALJ ALJ % Moisture:

Basis: Wet Weight

Seq Number: 3017044

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	05.09.17 08.51	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	05.09.17 08.51	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	05.09.17 08.51	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	05.09.17 08.51	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	05.09.17 08.51	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	05.09.17 08.51	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	05.09.17 08.51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	80-120	05.09.17 08.51		
4-Bromofluorobenzene		460-00-4	86	%	80-120	05.09.17 08.51		

Date Prep:

05.08.17 16.00





COG Operating LLC, Artesia, NM

SRO State Com #48H

Soil Sample Id: East-1' Matrix:

Date Received:05.05.17 11.00

Lab Sample Id: 552582-004 Date Collected: 05.03.17 14.10 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MGO % Moisture:

MGO Analyst:

Date Prep: 05.14.17 13.30 Basis:

Wet Weight

Seq Number: 3017230

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6.90	4.87	mg/kg	05.14.17 20.43		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

05.09.17 07.00

05.08.17 16.00

Basis: Wet Weight

Seq Number: 3016886

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.09.17 10.32	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.09.17 10.32	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.09.17 10.32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-135	05.09.17 10.32		
o-Terphenyl		84-15-1	100	%	70-135	05.09.17 10.32		

Date Prep:

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: ALJ % Moisture:

ALJ Analyst:

Basis:

Wet Weight

Seq Number: 3017044

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	05.09.17 12.40	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	05.09.17 12.40	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	05.09.17 12.40	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	05.09.17 12.40	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	05.09.17 12.40	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	05.09.17 12.40	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	05.09.17 12.40	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	95	%	80-120	05.09.17 12.40		
1,4-Difluorobenzene		540-36-3	107	%	80-120	05.09.17 12.40		

Date Prep:





COG Operating LLC, Artesia, NM

SRO State Com #48H

05.14.17 13.30

Sample Id: West-Surf

Lab Sample Id: 552582-005 Date Collected: 05.03.17 14.20

Analytical Method: Inorganic Anions by EPA 300/300.1

Tech: MGO

MGO Analyst: Date Prep:

Seq Number: 3017230

Soil Matrix:

Prep Method: E300P

Date Received:05.05.17 11.00

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	26.8	4.88	mg/kg	05.14.17 20.50		1

Analytical Method: TPH By SW8015 Mod

ARM Tech:

ARM Analyst: Seq Number: 3016886

05.09.17 07.00 Date Prep:

% Moisture:

Basis:

Prep Method: TX1005P

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.09.17 10.52	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.09.17 10.52	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.09.17 10.52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-135	05.09.17 10.52		
o-Terphenyl		84-15-1	99	%	70-135	05.09.17 10.52		

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst:

ALJ

05.08.17 16.00 Date Prep:

Prep Method: SW5030B

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	05.09.17 12.56	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	05.09.17 12.56	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	05.09.17 12.56	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	05.09.17 12.56	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	05.09.17 12.56	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	05.09.17 12.56	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	05.09.17 12.56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	102	%	80-120	05.09.17 12.56		
1,4-Difluorobenzene		540-36-3	111	%	80-120	05.09.17 12.56		



West-1'

MGO

Certificate of Analytical Results 552582



COG Operating LLC, Artesia, NM

SRO State Com #48H

Soil

Date Received:05.05.17 11.00

Lab Sample Id: 552582-006 Date Collected: 05.03.17 14.25 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

MGO

Matrix:

% Moisture:

Seq Number: 3017230

Sample Id:

Tech:

Analyst:

Date Prep: 05.14.17 13.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	05.14.17 21.13	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

05.09.17 07.00 Date Prep:

Basis: Wet Weight

Seq Number: 3016886

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.09.17 11.11	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.09.17 11.11	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.09.17 11.11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	05.09.17 11.11		
o-Terphenyl		84-15-1	98	%	70-135	05.09.17 11.11		

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech:

ALJ

ALJ Analyst:

05.08.17 16.00 Date Prep:

Basis: Wet Weight

% Moisture:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	05.09.17 13.12	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	05.09.17 13.12	U	1
Ethylbenzene	100-41-4	0.00238	0.00200		mg/kg	05.09.17 13.12		1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	05.09.17 13.12	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	05.09.17 13.12	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	05.09.17 13.12	U	1
Total BTEX		0.00238	0.00200		mg/kg	05.09.17 13.12		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	119	%	80-120	05.09.17 13.12		
1,4-Difluorobenzene		540-36-3	118	%	80-120	05.09.17 13.12		



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	



QC Summary 552582

COG Operating LLC

SRO State Com #48H

Analytical Method: Inorganic Anions by EPA 300/300.1

E300P Prep Method:

Seq Number:

3017230

Matrix: Solid

Date Prep: 05.14.17

MB Sample Id:

724559-1-BLK

LCS Sample Id: 724559-1-BKS

LCSD Sample Id: 724559-1-BSD

Units

mg/kg

Parameter

MB Spike Result Amount LCS LCS

Limits LCSD **LCSD**

RPD %RPD

Analysis Date

Chloride

< 5.00

Result %Rec 255

Result %Rec 253

101 90-110 Limit 20

05.14.17 18:49

Flag

Analytical Method: Inorganic Anions by EPA 300/300.1

3017230

Matrix: Soil

102

Prep Method: Date Prep:

E300P

Seq Number:

05.14.17

mg/kg

Units

mg/kg

Parent Sample Id:

552580-041

MS Sample Id: 552580-041 S MSD Sample Id:

552580-041 SD

Parameter

Parent

MS MS

MSD

Limits %RPD Units

Analysis Flag

Chloride

Spike Amount Result

%Rec 299 114 Result 289

MSD

%Rec 110 90-110

Limit 3 20

RPD

Date

05.14.17 19:12 X

Analytical Method: Inorganic Anions by EPA 300/300.1

3017230

244

250

250

Prep Method:

E300P

Seq Number:

Matrix: Soil

552582-005 S

Date Prep:

05.14.17

Parent Sample Id:

552582-005

MS Sample Id:

MSD

MSD Sample Id: 552582-005 SD

Parameter Chloride

Parent Spike Result Amount

26.8

Result

14.8

MS MS Result %Rec

MSD Result 296

%Rec 110 90-110

Limits

RPD %RPD Limit

5

20

Prep Method:

Analysis

05.14.17 20:58

Flag Date

X

Flag

Seq Number:

MB Sample Id:

Analytical Method: TPH By SW8015 Mod

3016886 724310-1-BLK

TX1005P

311

Matrix: Solid

116

LCS Sample Id: 724310-1-BKS

LCSD Sample Id:

Date Prep:

Units

%

%

05.09.17

724310-1-BSD

RPD LCS %RPD MB Spike LCS LCSD Limits Units Analysis **LCSD Parameter** %Rec Limit Result Amount Result Date Result %Rec C6-C10 Gasoline Range Hydrocarbons <15.0 1000 958

C10-C28 Diesel Range Hydrocarbons **Surrogate**

1-Chlorooctane

o-Terphenyl

<15.0 MB MB %Rec Flag

983 1000 LCS %Rec

96 98 LCS

Flag

973 946 97 70-135 70-135 95

LCSD

%Rec

2 4

LCSD

Flag

35 35

Limits

70-135

70-135

05.09.17 08:07 mg/kg 05.09.17 08:07 mg/kg

Analysis Date

05.09.17 08:07

05.09.17 08:07

98 99 102 106 94 100

Page 13 of 17

Final 1.000

Flag

Flag

SW5030B

Prep Method:



Seq Number:

Parent Sample Id:

QC Summary 552582

COG Operating LLC

SRO State Com #48H

Analytical Method: TPH By SW8015 Mod

552582-001

3016886 Matrix: Soil MS Sample Id: 552582-001 S Prep Method: TX1005P

Date Prep: 05.09.17

MSD Sample Id: 552582-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	970	97	959	96	70-135	1	35	mg/kg	05.09.17 09:11	
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	960	96	954	96	70-135	1	35	mg/kg	05.09.17 09:11	

Surrogate		MS MSI Flag %Re	Limits	Units	Analysis Date
1-Chlorooctane	97	95	70-135	%	05.09.17 09:11
o-Terphenyl	96	89	70-135	%	05.09.17 09:11

Analytical Method: BTEX by EPA 8021B

Seq Number: 3016772 MB Sample Id: 724253-1-BLK

Prep Method: SW5030B Matrix: Solid Date Prep: 05.08.17 LCS Sample Id: 724253-1-BKS LCSD Sample Id: 724253-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00199	0.0994	0.0954	96	0.0967	97	70-130	1	35	mg/kg	05.08.17 19:22
Toluene	< 0.00199	0.0994	0.0995	100	0.111	111	70-130	11	35	mg/kg	05.08.17 19:22
Ethylbenzene	< 0.00199	0.0994	0.0915	92	0.0937	94	71-129	2	35	mg/kg	05.08.17 19:22
m,p-Xylenes	< 0.00398	0.199	0.180	90	0.182	91	70-135	1	35	mg/kg	05.08.17 19:22
o-Xylene	< 0.00199	0.0994	0.0944	95	0.0975	98	71-133	3	35	mg/kg	05.08.17 19:22

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	119		101		104		80-120	%	05.08.17 19:22
4-Bromofluorobenzene	110		101		103		80-120	%	05.08.17 19:22

Analytical Method: BTEX by EPA 8021B

MD

Seq Number: 3017044 Matrix: Solid Date Prep: 05.08.17 LCS Sample Id: 724323-1-BKS LCSD Sample Id: 724323-1-BSD 724323-1-BLK MB Sample Id:

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	1
Benzene	< 0.00200	0.0998	0.0942	94	0.0942	94	70-130	0	35	mg/kg	05.09.17 07:15	
Toluene	< 0.00200	0.0998	0.0964	97	0.101	101	70-130	5	35	mg/kg	05.09.17 07:15	
Ethylbenzene	< 0.00200	0.0998	0.0938	94	0.0898	90	71-129	4	35	mg/kg	05.09.17 07:15	
m,p-Xylenes	< 0.00399	0.200	0.186	93	0.186	93	70-135	0	35	mg/kg	05.09.17 07:15	
o-Xylene	< 0.00200	0.0998	0.0996	100	0.103	103	71-133	3	35	mg/kg	05.09.17 07:15	

Surrogate	%Rec	Flag	%Rec	Flag	%Rec	Flag	Limits	Units	Date
1,4-Difluorobenzene	104		97		101		80-120	%	05.09.17 07:15
4-Bromofluorobenzene	92		85		106		80-120	%	05.09.17 07:15

LCC

Limite

Unite

Analysis



Seq Number:

QC Summary 552582

COG Operating LLC

SRO State Com #48H

Analytical Method: BTEX by EPA 8021B

3016772 Matrix: Soil Prep Method: SW5030B

Date Prep: 05.08.17

Parent Sample Id: 552561-001 MS Sample Id: 552561-001 S MSD Sample Id: 552561-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0743	74	0.0770	76	70-130	4	35	mg/kg	05.08.17 19:54	
Toluene	< 0.00202	0.101	0.0704	70	0.0884	88	70-130	23	35	mg/kg	05.08.17 19:54	
Ethylbenzene	0.00751	0.101	0.0627	55	0.0780	70	71-129	22	35	mg/kg	05.08.17 19:54	X
m,p-Xylenes	0.0417	0.202	0.151	54	0.162	60	70-135	7	35	mg/kg	05.08.17 19:54	X
o-Xylene	0.0179	0.101	0.0868	68	0.0875	69	71-133	1	35	mg/kg	05.08.17 19:54	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	120		118		80-120	%	05.08.17 19:54
4-Bromofluorobenzene	116		112		80-120	%	05.08.17 19:54

Analytical Method: BTEX by EPA 8021B

Seq Number: 3017044 Parent Sample Id: 552582-003

Matrix: Soil MS Sample Id: 552582-003 S Prep Method: SW5030B

05.08.17

Date Prep: MSD Sample Id: 552582-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.0725	73	0.0485	48	70-130	40	35	mg/kg	05.09.17 07:47	XF
Toluene	< 0.00200	0.0998	0.0639	64	0.0348	34	70-130	59	35	mg/kg	05.09.17 07:47	XF
Ethylbenzene	< 0.00200	0.0998	0.0539	54	0.0289	29	71-129	60	35	mg/kg	05.09.17 07:47	XF
m,p-Xylenes	< 0.00399	0.200	0.105	53	0.0505	25	70-135	70	35	mg/kg	05.09.17 07:47	XF
o-Xylene	< 0.00200	0.0998	0.0597	60	0.0353	35	71-133	51	35	mg/kg	05.09.17 07:47	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		91		80-120	%	05.09.17 07:47
4-Bromofluorobenzene	105		95		80-120	%	05.09.17 07:47



San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

t EX
HCI NAOH/Zn Acetate HNO3 H2SO4 NAOH NAOH NAHSO4 NAOH NAOH NAHSO4 NAOH NAHSO4 NAOH NAOH NAOH NAHSO4 NAOH NAOH NAOH NAOH NAOH NAOH NAOH NAOH

Page 16 of 17

Final 1.000



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: COG Operating LLC

Date/ Time Received: 05/05/2017 11:00:00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 552582

Temperature Measuring device used: R9

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		3.1
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seal present on shipping co	ontainer/ cooler?	N/A
#5 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#6 Custody Seals intact on sample bottle	es?	N/A
#7 *Custody Seals Signed and dated?		N/A
#8 *Chain of Custody present?		Yes
#9 Sample instructions complete on Cha	in of Custody?	Yes
#10 Any missing/extra samples?		No
#11 Chain of Custody signed when relind	quished/ received?	Yes
#12 Chain of Custody agrees with sampl	e label(s)?	Yes
#13 Container label(s) legible and intact?	?	Yes
#14 Sample matrix/ properties agree with	n Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	•	Yes
#16 Samples properly preserved?		Yes
#17 Sample container(s) intact?		Yes
#18 Sufficient sample amount for indicate	ed test(s)?	Yes
#19 All samples received within hold time	e?	Yes
#20 Subcontract of sample(s)?		N/A
#21 VOC samples have zero headspace		N/A
#22 <2 for all samples preserved with HN samples for the analysis of HEM or HEM-analysts.		N/A
#23 >10 for all samples preserved with N	laAsO2+NaOH, ZnAc+NaOH?	N/A
* Must be completed for after-hours de		the refrigerator
Analyst:	PH Device/Lot#:	
Checklist completed by:	Jessica Warner	Date: 05/08/2017
	Jessica Kramer	
Checklist reviewed by:	Liz Givens	Date: <u>05/08/2017</u>



September 07, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SRO STATE COM #48H

Enclosed are the results of analyses for samples received by the laboratory on 08/31/17 16:34.

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



Analytical Results For:

BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/31/2017 Sampling Date: 08/25/2017

Reported: 09/07/2017 Sampling Type: Soil

Project Name: SRO STATE COM #48H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By MC

Project Location: COG - MALAGA

Sample ID: SP1 @ 1 (H702335-01)

DTEV 0021D

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	09/05/2017	ND	1.93	96.6	2.00	0.458	
Toluene*	<0.050	0.050	09/05/2017	ND	1.93	96.6	2.00	0.872	
Ethylbenzene*	<0.050	0.050	09/05/2017	ND	2.06	103	2.00	0.713	
Total Xylenes*	<0.150	0.150	09/05/2017	ND	6.13	102	6.00	0.591	
Total BTEX	<0.300	0.300	09/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 72-148							
Chloride, SM4500Cl-B	mg,	/kg	d By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9800	16.0	09/06/2017	ND	448	112	400	3.64	
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	09/05/2017	ND	185	92.4	200	3.24	
DRO >C10-C28	<10.0	10.0	09/05/2017	ND	186	92.8	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/05/2017	ND					
Surrogate: 1-Chlorooctane	95.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	94.8	% 34.7-15	7						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/31/2017 Sampling Date: 08/25/2017

Reported: 09/07/2017 Sampling Type: Soil Project Name: SRO STATE COM #48H Sampling Condition: Cool & Intact

Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: COG - MALAGA

Sample ID: SP1 @ 3 (H702335-02)

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
8800	16.0	09/06/2017	ND	448	112	400	3.64	
35-03)								
mg	/kg	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
6100	16.0	09/06/2017	ND	448	112	400	3.64	
3 5-04)								
mg	/kg	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
8900	16.0	09/06/2017	ND	448	112	400	3.64	
335-05)								
mg	/kg	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
9800	16.0	09/06/2017	ND	448	112	400	3.64	
335-06)								
mg	/kg	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	8800 85-03) Result 6100 85-04) Result 8900 835-05) mg, Result 9800	8800 16.0 35-03) mg/kg Result Reporting Limit 6100 16.0 35-04) mg/kg Result Reporting Limit 8900 16.0 335-05) mg/kg Result Reporting Limit 9800 16.0 335-06) mg/kg	8800 16.0 09/06/2017 35-03) mg/kg Result Reporting Limit Analyzed 6100 16.0 09/06/2017 35-04) mg/kg Result Reporting Limit Analyzed 8900 16.0 09/06/2017 335-05) mg/kg Result Reporting Limit Analyzed 8900 16.0 09/06/2017 335-05) mg/kg Analyzed 9800 16.0 09/06/2017	8800 16.0 09/06/2017 ND 35-03) mg/kg Analyzed By: HM Result Reporting Limit Analyzed Method Blank 6100 16.0 09/06/2017 ND 35-04) mg/kg Analyzed By: HM Result Reporting Limit Analyzed Method Blank 8900 16.0 09/06/2017 ND 335-05) mg/kg Analyzed By: HM Result Reporting Limit Analyzed Method Blank 9800 16.0 09/06/2017 ND 335-05) mg/kg Analyzed By: HM Result Reporting Limit Analyzed Method Blank 9800 16.0 09/06/2017 ND	8800 16.0 09/06/2017 ND 448 35-03) mg/kg Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS 6100 16.0 09/06/2017 ND 448 35-04) mg/kg Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS 8900 16.0 09/06/2017 ND 448 335-05) mg/kg Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS 9800 16.0 09/06/2017 ND 448 335-06) mg/kg Analyzed By: HM	8800 16.0 09/06/2017 ND 448 112 35-03) mg/kg Analyzed By: HM Result Reporting Limit Analyzed By: HM 335-06) Mg/kg Analyzed By: HM	Section Sect	8800 16.0 09/06/2017 ND 448 112 400 3.64 85-03) mg/kg Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 6100 16.0 09/06/2017 ND 448 112 400 3.64 85-04) mg/kg Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 8900 16.0 09/06/2017 ND 448 112 400 3.64 335-05) mg/kg Analyzed By: HM Result Reporting Limit Analyzed Wethod Blank BS % Recovery True Value QC RPD 3.64 335-05) mg/kg Analyzed By: HM

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	09/06/2017	ND	448	112	400	3.64	

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Celeg D. Keene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/31/2017 Sampling Date: 08/25/2017

Reported: 09/07/2017 Sampling Type: Soil

Project Name: SRO STATE COM #48H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COG - MALAGA

Sample ID: SP1 @ 18 (H702335-07)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	09/06/2017	ND	448	112	400	3.64	
Sample ID: SP2 @ 1 (H702	335-08)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	09/06/2017	ND	448	112	400	3.64	
Sample ID: SP2 @ 3 (H702	335-09)								
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8700	16.0	09/06/2017	ND	448	112	400	3.64	
Sample ID: SP2 @ 6 (H702	335-10)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	09/06/2017	ND	416	104	400	3.77	QM-07
Sample ID: SP2 @ 9 (H702	335-11)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	09/06/2017	ND	416	104	400	3.77	

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Celeg D. Freene

Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/31/2017 Sampling Date: 08/28/2017

Reported: 09/07/2017 Sampling Type: Soil

Project Name: SRO STATE COM #48H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COG - MALAGA

Sample ID: SP2 @ 12 (H702335-12)

Chloride, SM4500CI-B mg/kg Analyzed By: HM

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

Chloride 11400 16.0 09/06/2017 ND 416 104 400 3.77

Sample ID: SP2 @ 16 (H702335-13)

Chloride, SM4500Cl-B Analyzed By: HM mg/kg BS RPD Analyte Result Reporting Limit Analyzed Method Blank True Value QC Qualifier % Recovery 2200 16.0 09/06/2017 416 400 3.77 Chloride ND 104

Sample ID: SP2 @ 18 (H702335-14)

Chloride, SM4500Cl-B mg/kg Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 1280 09/06/2017 ND 400 16.0 416 104 3.77

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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: 08/31/2017 Sampling Date: 08/28/2017

Reported: 09/07/2017 Sampling Type: Soil

Project Name: SRO STATE COM #48H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: COG - MALAGA

Sample ID: SP3 @ 1 (H702335-15)

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	09/06/2017	ND	1.82	90.8	2.00	0.313	
Toluene*	<0.050	0.050	09/06/2017	ND	1.83	91.3	2.00	0.0863	
Ethylbenzene*	<0.050	0.050	09/06/2017	ND	1.94	97.0	2.00	0.633	
Total Xylenes*	<0.150	0.150	09/06/2017	ND	5.78	96.3	6.00	0.918	
Total BTEX	<0.300	0.300	09/06/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 72-148	,						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	09/07/2017	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	09/05/2017	ND	185	92.4	200	3.24	
DRO >C10-C28	<10.0	10.0	09/05/2017	ND	186	92.8	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/05/2017	ND					
Surrogate: 1-Chlorooctane	84.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.4	% 34.7-15	7						

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Celeg D. Keene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/31/2017 Sampling Date: 08/28/2017

Reported: 09/07/2017 Sampling Type: Soil

Project Name: SRO STATE COM #48H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COG - MALAGA

Sample ID: SP3 @ 3 (H702335-16)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10800	16.0	09/07/2017	ND	416	104	400	3.77	
Sample ID: SP3 @ 6 (H70	2335-17)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9000	16.0	09/07/2017	ND	416	104	400	3.77	
Sample ID: SP3 @ 9 (H70	•	_							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	09/07/2017	ND	416	104	400	3.77	
Sample ID: SP3 @ 12 (H7	02335-19)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	09/07/2017	ND	416	104	400	3.77	
Sample ID: SP3 @ 16 (H7	02335-20)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	09/07/2017	ND	416	104	400	3.77	

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Celeg D. Keene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/31/2017 Sampling Date: 08/28/2017

Reported: 09/07/2017 Sampling Type: Soil Project Name: SRO STATE COM #48H Sampling Condition: Coo

Project Name: SRO STATE COM #48H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COG - MALAGA

Sample ID: SP3 @ 18 (H702335-21)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/07/2017	ND	416	104	400	3.77	
Sample ID: SP4 @ 1 (H7023	35-22)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	38400	16.0	09/07/2017	ND	416	104	400	3.77	
Sample ID: SP4 @ 3 (H7023	35-23)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	09/07/2017	ND	416	104	400	3.77	
Sample ID: SP4 @ 6 (H7023	35-24)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7300	16.0	09/07/2017	ND	416	104	400	3.77	
Sample ID: SP4 @ 9 (H7023	35-25)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Celeg D. Keene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/31/2017 Sampling Date: 08/28/2017

Reported: 09/07/2017 Sampling Type: Soil

Project Name: SRO STATE COM #48H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COG - MALAGA

Sample ID: SP4 @ 12 (H702335-26)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 6200 09/07/2017 ND 416 400 16.0 104 3.77

Sample ID: SP4 @ 16 (H702335-27)

Chloride, SM4500Cl-B Analyzed By: AC mg/kg BS RPD Analyte Result Reporting Limit Analyzed Method Blank True Value QC Qualifier % Recovery 5300 16.0 09/07/2017 416 400 3.77 Chloride ND 104

Sample ID: SP4 @ 18 (H702335-28)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 4100 09/07/2017 ND 400 16.0 416 104 3.77

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Celegy Keens



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/31/2017 Sampling Date: 08/28/2017

Reported: 09/07/2017 Sampling Type: Soil

Project Name: SRO STATE COM #48H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: COG - MALAGA

ma/ka

Sample ID: SP5 @ 1 (H702335-29)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2017	ND	1.82	90.8	2.00	0.313	
Toluene*	<0.050	0.050	09/06/2017	ND	1.83	91.3	2.00	0.0863	
Ethylbenzene*	<0.050	0.050	09/06/2017	ND	1.94	97.0	2.00	0.633	
Total Xylenes*	<0.150	0.150	09/06/2017	ND	5.78	96.3	6.00	0.918	
Total BTEX	<0.300	0.300	09/06/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 72-148	}						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34800	16.0	09/07/2017	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/05/2017	ND	185	92.4	200	3.24	
DRO >C10-C28	11.8	10.0	09/05/2017	ND	186	92.8	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/05/2017	ND					
Surrogate: 1-Chlorooctane	92.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	98.5	% 34.7-15	7						

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Celey D. Keene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/31/2017 Sampling Date: 08/28/2017

Reported: 09/07/2017 Sampling Type: Soil Project Name: SRO STATE COM #48H Sampling Condition: Coo

Project Name: SRO STATE COM #48H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COG - MALAGA

Sample ID: SP5 @ 3 (H702335-30)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	09/07/2017	ND	416	104	400	3.77	
Sample ID: SP5 @ 6 (H7	02335-31)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7000	16.0	09/07/2017	ND	416	104	400	3.77	
Sample ID: SP5 @ 9 (H70	02335-32)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	09/07/2017	ND	416	104	400	3.77	
Sample ID: SP5 @ 12 (H	702335-33)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	09/07/2017	ND	416	104	400	3.77	
Sample ID: SP5 @ 16 (H	702335-34)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5900	16.0	09/07/2017	ND	416	104	400	3.77	

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Celeg D. Keene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/31/2017 Sampling Date: 08/28/2017

Reported: 09/07/2017 Sampling Type: Soil

Project Name: SRO STATE COM #48H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COG - MALAGA

Sample ID: SP5 @ 18 (H702335-35)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5500	16.0	09/07/2017	ND	416	104	400	3.77	

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Celey D. Keene



Analytical Results For:

BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/31/2017 Sampling Date: 08/28/2017

Reported: 09/07/2017 Sampling Type: Soil

Project Name: SRO STATE COM #48H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: COG - MALAGA

Sample ID: SOUTH @ SURFACE (H702335-36)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2017	ND	1.82	90.8	2.00	0.313	
Toluene*	<0.050	0.050	09/06/2017	ND	1.83	91.3	2.00	0.0863	
Ethylbenzene*	<0.050	0.050	09/06/2017	ND	1.94	97.0	2.00	0.633	
Total Xylenes*	<0.150	0.150	09/06/2017	ND	5.78	96.3	6.00	0.918	
Total BTEX	<0.300	0.300	09/06/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 72-148	}						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/07/2017	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	09/05/2017	ND	185	92.4	200	3.24	
DRO >C10-C28	<10.0	10.0	09/05/2017	ND	186	92.8	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/05/2017	ND					
Surrogate: 1-Chlorooctane	91.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.8	% 34.7-15	7						

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Celey D. Keene



Notes and Definitions

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

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Celey D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

mpany Name: RRC International Inc.	ne: BBC	Nam	Company
i05) 393-2326 FAX (505) 393-2476	(505) 39		
101 East Marland, Hobbs, NM 88240	101 Eas	(
ARDINAL LABORATORIES	RDINA	A	6
			đ

		Sample Condition CHECKED BY:	77:10	Delivered By: (Circle One)
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		By: CWTOOTUS	Date: Received By:	Relinquished By:
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ı	oplicable	where based in contract or tort, shall be limited to the arrayan, houses made in writing and received by Cardinal within 30/fallys after susiness interruptions, loss of use, or loss of profits incurred by of whether such damn is based upon any of the above stated fee	PLEASE NOTE: Liability and Damages. Cardinat's liability and citerit's exclusive remedy for any claim airsing whether based in contract or for, that be landed to the annex or the applicable analyses. All claims including those for negligence and any other cause whatboever shall be deemed whatword unless made in writing and received by Cardinal within 30days 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, 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.	PLEASE NOTE: Liability and Dam analyses. All claims including those service. In no event shall Cardinal
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	1 E	Phone #:	252/21/	roject Location:
	tes	State: Zip:	18th was state on #48H	roject Name: SE
	Va	City:	Project Owner: 0	roject #:
	6	Address:	5388 Fax #: 575-397-0397	hone #: 575-397-6388
		Attn:	State: NM zip: 88241	ity: Hobbs
		Company:	805	Address: P.O. Box 805
		P.O. #:	Cliff Brunson	roject Manager: Cl
ANALISIS REGOES.		BILL TO	BBC International, Inc.	company Name: BE
ANALYSIS REQUEST			(505) 393-2326 FAA (505) 393-247 6	(505)

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

CORRECTED + 25°C

Sampler - UPS - Bus - Other:

Page 15 of 18

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

Corrected +.25°C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Bl Project Manager: C Address: P.O. Box City: Hobbs	unson state: N	Zip: 88241	P.O. #: Company: CO (
Phone #: 575-397-6388	Fax #: Project C	575-397-0397 wner: C O C	Address: City:
Project Name: <	Malesa Com	#404	State: Zip: Phone #:
Sampler Name: FOR LAB USE ONLY	1.0 1	P. MATRIX	PRESERV. SAMPLING
Lab I.D.	Sample I.D.	G)RAB OR (C)OM CONTAINERS BROUNDWATER WASTEWATER BOIL DIL SLUDGE	OTHER: ACID/BASE: CE / COOL OTHER:
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7 E & E	Sp 30 8	27.7	***
19 19 20 LEASE NOTE: Liability and Dan	18 7 2 1 3 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	abali be deemed waved unless made in writing a shall be deemed waved unless made in writing a	of monitoral or tort, shall be limited to the amount paid in writing and received by Cardinal within 30 days after
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Delivered By: (Circle One)			

Page 16 of 18

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476 Company Name: BBC International, Inc.	
ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476	Company Name: BBC International, Inc.
ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240	(505) 393-2326 FAX (505) 393-2476
ARDINAL LABORATORIES	101 East Marland, Hobbs, NM 88240
	ARDINAL LABORATORIES

(505) 393-2326 FAX (505) 393-2476		ANALYSIS REQUEST
Company Name: BBC International, Inc.	BILL TO	ANALI CO CITAGO
Project Manager: Cliff Brunson	P.O. #:	×
	Company:	
State: NM	Zip: 88241 Attn:	
Phone #: 575-397-6388 Fax #: 575-397-0397	-0397 Address:	
	City:	
ame: SRU Stat	Hot State: Zip:	+175
on: 12/2/2	Phone #:	5.77.
1000	1	2
FOR LAB USE ONLY	MATRIX PRESERV. SAMPLING	LING
Lab I.D. Sample I.D.	CONTAINERS ROUNDWATER VASTEWATER OIL OIL OIL OIL OIL OITHER: OCID/BASE: OCE / COOL OTHER:	TIME
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any darm arising whether based in contract or tort, shall be limited to the unfount paid by the client for the applicable.	m arising whether based in contract or tort, shall be limited to the adjount and unless made in writing and received by Cardinal within 30 day	paid by the client for the after completion of the applicable
analyses. As claims including index for registerice as any view view that analyses and claims including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries 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 service, in no event shall Cardinal be table for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries services in no event shall Cardinal be table for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries services in no event shall Cardinal be table for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries services in no event shall Cardinal be table for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries of which is the profit of t	ut limitation, business interruptions, loss of use, or loss of profits incurred to it, regardless of whether such daim is based upon any of the above stated	T Vac
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Тіте:		
Delivered By: (Circle One) - 2.0.0	Sample Condition CHECKED BY: Cool_ Intact (Initials) Yes Yes	

Page 17 of 18

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	ARL 10
mpany Name: BBC International, Inc.	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

(0.00)			CIC DECLIEST
Company Name: BBC International, Inc.	BILL	Cincinio	
Project Manager: Cliff Brunson	P.O. #:		
	Company:		
State: NM	Zip: 88241 Attn:	lav	
Phone #: 575-397-6388 Fax #: 575-397-0397)397 Address:	v ₀	
, Project Owner:	0 C city:	he de la constant de	
Project Name: SRO State Com 4	State: Zip:		
Project Location: MVZ 5 7	Phone #:	5	
Sampler Name:	Fax #:		
	MATRIX PRESERV.	SAMPLING THE TAIL	
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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 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 30 days after competion 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, 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.	y claim arising whether based in contract or tort, shall be limited to the amou emend walved unless made in writing and sectived by Cardinal within 30 also without limitation, business interruptions, loss of pue, or loss of profits incuries without limitation, business interruptions loss of pue, or loss of profits incuries whether we will be section to the section of the above state of the section of the section of the section section of the section section.	pplicable	
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Date: Time:	Received By:		
Delivered By: (Circle One)	Sample Condition CHECKED BY:	DBY:	

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

Corrected +, 25 °C

Cool Intact
Yes Yes
No No

Sampler - UPS - Bus - Other:

Page 18 of 18



October 19, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SRO STATE COM #48H

Enclosed are the results of analyses for samples received by the laboratory on 10/13/17 13:33.

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



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 10/13/2017 Sampling Date: 10/10/2017

Reported: 10/19/2017 Sampling Type: Soil Project Name: SRO STATE COM #48H Sampling Condition: Coo

Project Name: SRO STATE COM #48H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COG - MALAGA, EDDY CO NM

Sample ID: SB1 @ 20 (H702780-01)

Chloride, SM4500CI-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	10/17/2017	ND	416	104	400	3.77	
Sample ID: SB1 @ 25 (H	702780-02)								
Chloride, SM4500Cl-B mg/kg		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/17/2017	ND	416	104	400	3.77	
Sample ID: SB1 @ 30 (H Chloride, SM4500Cl-B	ample ID: SB1 @ 30 (H702780-03) sloride, SM4500Cl-B mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/17/2017	ND	416	104	400	3.77	
Sample ID: SB1 @ 35 (H	702780-04)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride									
Cilionae	48.0	16.0	10/17/2017	ND	416	104	400	3.77	

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Celeg D. Keene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 10/13/2017 Sampling Date: 10/10/2017

Reported: 10/19/2017 Sampling Type: Soil

Project Name: SRO STATE COM #48H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COG - MALAGA, EDDY CO NM

Sample ID: SB2 @ 20 (H702780-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	10/17/2017	ND	416	104	400	3.77	
Sample ID: SB2 @ 25 (H	702780-06)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/17/2017	ND	416	104	400	3.77	
Sample ID: SB2 @ 30 (Hi	-	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/17/2017	ND	416	104	400	3.77	
Sample ID: SB2 @ 35 (H)	702780-08)								
Chloride, SM4500Cl-B	hloride, SM4500Cl-B mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/17/2017	ND	416	104	400	3.77	
Sample ID: SB3 @ 20 (H	702780-09)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	10/17/2017	ND	416	104	400	3.77	

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Celeg D. Keene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 10/13/2017 Sampling Date: 10/10/2017

Reported: 10/19/2017 Sampling Type: Soil

Project Name: SRO STATE COM #48H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COG - MALAGA, EDDY CO NM

Sample ID: SB3 @ 25 (H702780-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/17/2017	ND	416	104	400	3.77	
Sample ID: SB3 @ 30 (H702	2780-11)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/18/2017	ND	416	104	400	3.77	
Sample ID: SB3 @ 35 (H702	2780-12)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/18/2017	ND	416	104	400	3.77	
Sample ID: SB4 @ 20 (H702	2780-13)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/18/2017	ND	416	104	400	3.77	
Sample ID: SB4 @ 25 (H702	2780-14)								
Chloride, SM4500Cl-B	-	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/18/2017	ND	416	104	400	3.77	

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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: 10/13/2017 Sampling Date: 10/10/2017

Reported: 10/19/2017 Sampling Type: Soil

Project Name: SRO STATE COM #48H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COG - MALAGA, EDDY CO NM

Sample ID: SB4 @ 30 (H702780-15)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/18/2017	ND	416	104	400	3.77	
Sample ID: SB5 @ 20 (H70	2780-16)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/18/2017	ND	432	108	400	3.64	
Sample ID: SB5 @ 25 (H70 Chloride, SM4500Cl-B	-	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/18/2017	ND	432	108	400	3.64	
Sample ID: SB5 @ 30 (H70	2780-18)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/18/2017	ND	432	108	400	3.64	
Sample ID: SB5 @ 35 (H70	2780-19)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte		-1 3	•						

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Notes and Definitions

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

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Celey D. Keene

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Connected +.25.c

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BELL TO AN 1993-2236 FAX (595) 393-2476 BC Intermational, Inc. Company: City: Pax #: 575-397-0397 Address: Project Owner: C C C State: NM Zip: 88241 Ann: Project Owner: C C C State: Zip: Project Owner: Zip: Project Owner: C C C State: Zip: Project Owner: Zip: Project Owner: C C C C State: Zip: Project Owner: Zip: Project Owner: C C C C State: Zip: Project Owner: Zip: Project Owner: Zip: Project Owner: C C C C State: Zip: Project Owner: Zip: Project Owner: C C C C State: Zip: Project Owner: Zip: Project Owner: Zip: Project Owner: C C C C State: Zip: Project Owner: Zip: Pro	□ Yes S	Relinquished By: Relinquished By: Relinquished By:	Company Name: BBC In Project Manager: Cliff Br Address: P.O. Box 805 City: Hobbs Phone #: 575-397-6388 Project Name: SRO Project Location: Eed of Sampler Name: Teff FOR LAB USE ONLY FOR LAB USE	10
AN A	ANALYSIS No Add'I Phon Yes	y: Date: y: Circle One Date: Circle One Date: Signature of the project own t	1 East Marland, Houses, New York	
AN A	ANALYSIS ANALYSIS No Add'I Phon Add'I Fax #	Received By: Received By: Received By: Sample Condit	Zip: 88241 Zip: 88241 At 75-397-0397 AC GGRAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER WASTEWATER SOIL OIL SILUDGE as to downtow whether based in contract as the downtow transfer, business and in writing and culture for Cartinul, regulations of whether such claims.	TR.
AN A	ANALYSIS ANALYSIS No Add'I Phon Add'I Fax #	ion CHECKED BK:	Idress: V: PRESERV. SAMPLING CD/BACO	
No No	ANALYSIS No Add'l Phon Add'l Fax #			
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Page 7 of 8

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ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.	BILL 10	
Project Manager: Cliff Brunson	P.O. #:	
Address: P.O. Box 805		
City: Hobbs State: NM	Zip: 88241 Attn:	
5-397-6388 Fax #:	575-397-0397 Address: 7	
Project #: Project Owner: CO	er: COG City:	
ame: SRO State	√8 H State: Zip:	
Project Location: Edd y County	Phone #:	
710	Fax#:	
Sample Mario.	MATRIX PRESERV SAMPLING	
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Lab I.D. Sample I.D.	CILUDGE OTHER: CID/BASE: CIE/COOL OTHER:	TIME
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service. In no event shall calculate to the performance of services hereunder affiliates cu-successors arising out of or related to the performance of services hereunder	nder by Cardinal, regardless of whether such claim is based upon any of the above stated reason P	lt: □ Yes □ No
Reimquished By:	Received By:	□ Yes □ No
Time:	The Marian	REMARKS

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Cool Intact
Pes Pyes
No No

#75

Sampler - UPS - Bus - Other:

Delivered By:

(Circle Qne)

Page 8 of 8

From: Bratcher, Mike, EMNRD

To: <u>Cliff Brunson</u>

Cc: Weaver, Crystal, EMNRD; Becky Haskell; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject: RE: COG SRO State Com #48 (2RP-4182) - Delineation Workplan

Date: Thursday, February 22, 2018 8:09:26 AM

RE: COG * SRO St Com 48H * **2RP-4182** * DOR: 4/21/2017

Cliff,

After consultation with Ms. Weaver, and re-examining the data and remediation proposal, the proposal is approved as submitted. Please advise once remedial activities have been scheduled.

Thank you,

Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210 575~748~1283 Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Wednesday, November 22, 2017 2:08 PM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Amber Groves

<agroves@slo.state.nm.us>

Cc: Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us>; Becky Haskell < rhaskell@concho.com>; Ken Swinney < kswinney@bbcinternational.com>; Jennifer Gilkey < jgilkey@bbcinternational.com>; Kathy Purvis < kathy@bbcinternational.com>

Subject: COG SRO State Com #48 (2RP-4182) - Delineation Workplan

Mike and Amber,

Please find the attached Delineation Workplan and remediation proposal for the COG SRO State Com #48 (2RP-4182). COG is requesting that you review this plan and is looking forward to both the OCD's and SLO'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: Naranjo, Mark

To: "Cliff Brunson"; Honea, Tammy

Cc: "Becky Haskell"; DeAnn Grant; "Dakota Neel"; "Sheldon Hitchcock"; "Ken Swinney"; "Jennifer Gilkey"; "Kathy

Purvis"

Subject: RE: COG SRO State Com #48 (2RP-4182) - Delineation Workplan

Date: Monday, March 19, 2018 5:03:43 PM

The NMSLO approves the work plan.

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Monday, March 19, 2018 1:25 PM

To: Naranjo, Mark < MNaranjo@slo.state.nm.us>

Cc: 'Becky Haskell' <rhaskell@concho.com>; DeAnn Grant <agrant@concho.com>; 'Dakota Neel'

<DNeel2@concho.com>; 'Sheldon Hitchcock' <SLHitchcock@concho.com>; 'Ken Swinney'

<kswinney@bbcinternational.com>; 'Jennifer Gilkey' <jgilkey@bbcinternational.com>; 'Kathy Purvis'

<kathy@bbcinternational.com>

Subject: FW: COG SRO State Com #48 (2RP-4182) - Delineation Workplan

Mark,

As you can see from the email chain below, the attached plan was submitted to the SLO and OCD on November 22, 2017 and the OCD approved the plan on February 22, 2018. If you would please review the plan and issue an approval via email, it would be greatly appreciated. If you have any questions, please contact either myself or Becky Haskell with COG.

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

Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com



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From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Sent: Thursday, February 22, 2018 8:09 AM

To: Cliff Brunson < cbrunson@bbcinternational.com>

Cc: Weaver, Crystal, EMNRD < <u>Crystal.Weaver@state.nm.us</u>>; Becky Haskell

<<u>rhaskell@concho.com</u>>; Ken Swinney <<u>kswinney@bbcinternational.com</u>>; Jennifer Gilkey

<igilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>

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RE: COG * SRO St Com 48H * 2RP-4182 * DOR: 4/21/2017

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Thank you,

Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210 575~748~1283 Ext 108

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From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Wednesday, November 22, 2017 2:08 PM

To: Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us >; Amber Groves

<agroves@slo.state.nm.us>

Cc: Weaver, Crystal, EMNRD < <u>Crystal.Weaver@state.nm.us</u>>; Becky Haskell

<<u>rhaskell@concho.com</u>>; Ken Swinney <<u>kswinney@bbcinternational.com</u>>; Jennifer Gilkey

<igilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>

Subject: COG SRO State Com #48 (2RP-4182) - Delineation Workplan

Mike and Amber,

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If you have any questions, please let me know.

Thanks, Cliff

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District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 160409

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	160409
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Create By	d Condition	Condition Date
bhall	None	11/21/2022