Received by OCD: 4/11/2023 11:13:57 AM



[Dakota Neel] [HSE Coordinator]

March 2, 2019

Bradford Billings Oil Conservation Division Santa Fe

Jim Amos Bureau of Land Management, CFO 620 E. Green Street Carlsbad, NM 88220

Re: Closure Request MC Southeast Battery API #: 30-025-35252 RP#: 1RP-4917 Unit Letter H Section 21, Township 17S, Range 32E Lea County, NM

Mr. Billings/Mr. Amos,

COG Operating, LLC (COG) is pleased to submit for your consideration the following closure request for the MC Southeast Battery. This release occurred on January 4, 2018. Following the releases a site assessment of the impacted soils was conducted. A remediation work plan was submitted to and subsequently approved by the New Mexico Oil Conservation Division (NMOCD) and Bureau of Land Management (BLM). A copy of the approved work plan is attached.

#### BACKGROUND

The MC Southeast Battery is located in Unit Letter H, Section 21, Township 17 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude for this release are 32.820527 North and -103.765465 West.

On January 4, 2018, a gasket on the heater treater failed resulting in the release of approximately ten (10) barrels (bbls) of oil and one-hundred and eighty (180) bbls of produced water. The overspray impacted the lined tank battery and the adjacent pasture. A vacuum truck was able to recover approximately five (5) bbls of oil and one-hundred and seventy-five (175) bbls of produced water.

Remediation activities were conducted in accordance with the NMOCD/BLM approved workplan. Confirmation samples for the areas represented by T-3 and T-4 were taken and can be found in Appendix 1.

#### **PROPOSED REMEDIAL ACTIONS**

- The impacted gravel within the lined facility has been removed and hauled to an NMOCD approved solid waste disposal facility. The liner was inspected for damage and found to have structural integrity to retain free fluids. The gravel has been replaced.
- The impacted area in the vicinity of sample location T-3 was excavated to a depth of 1-foot BGS.
- The impacted area in the vicinity of sample location T-4/AH-4 was excavated to a depth of 5-feet BGS.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- The excavated area was backfilled with clean "like" material, contoured to match the surrounding terrain and will be seeded with BLM seed mixture #2.

#### **CLOSURE REQUEST**

COG Operating, LLC respectfully requests closure approval for 2RP-4917. Should you have any questions or concerns please do not hesitate to contact me.

Sincerely,

Detot New

Dakota Neel HSE Coordinator

Enclosed:

Appendix I: Confirmation Analytical Results Appendix II: Work Plan (Copy) Appendix III: Initial C-141 (Copy) Appendix IV: Final C-141





July 06, 2018

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

**RE: MC SOUTHEAST BATTERY** 

Enclosed are the results of analyses for samples received by the laboratory on 07/02/18 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/25/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MC SOUTHEAST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - LEA COUNTY		

#### Sample ID: T3 - BTM (H801812-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2018	ND	1.82	91.2	2.00	1.34	
Toluene*	<0.050	0.050	07/04/2018	ND	1.84	91.8	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/04/2018	ND	1.80	90.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/04/2018	ND	5.57	92.8	6.00	0.840	
Total BTEX	<0.300	0.300	07/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/05/2018	ND	432	108	400	0.00	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	87.3	% 41-142	2						
Surrogate: 1-Chlorooctadecane	92.3	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/25/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MC SOUTHEAST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - LEA COUNTY		

#### Sample ID: T4 - BTM (H801812-02)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2018	ND	1.82	91.2	2.00	1.34	
Toluene*	<0.050	0.050	07/04/2018	ND	1.84	91.8	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/04/2018	ND	1.80	90.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/04/2018	ND	5.57	92.8	6.00	0.840	
Total BTEX	<0.300	0.300	07/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 69.8-14	2						
Chloride, 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	07/05/2018	ND	432	108	400	0.00	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	92.5	% 41-142	,						
Surrogate: 1-Chlorooctadecane	99.3	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/25/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MC SOUTHEAST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - LEA COUNTY		

#### Sample ID: T3 / T4 (H801812-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2018	ND	1.82	91.2	2.00	1.34	
Toluene*	<0.050	0.050	07/04/2018	ND	1.84	91.8	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/04/2018	ND	1.80	90.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/04/2018	ND	5.57	92.8	6.00	0.840	
Total BTEX	<0.300	0.300	07/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/05/2018	ND	432	108	400	0.00	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	85.4	% 41-142	2						
Surrogate: 1-Chlorooctadecane	92.2	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/25/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MC SOUTHEAST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - LEA COUNTY		

#### Sample ID: T4 - EAST (H801812-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2018	ND	1.82	91.2	2.00	1.34	
Toluene*	<0.050	0.050	07/04/2018	ND	1.84	91.8	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/04/2018	ND	1.80	90.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/04/2018	ND	5.57	92.8	6.00	0.840	
Total BTEX	<0.300	0.300	07/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.8-14	2						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/05/2018	ND	432	108	400	0.00	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	82.7	% 41-142	,						
Surrogate: 1-Chlorooctadecane	88.0	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/25/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MC SOUTHEAST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - LEA COUNTY		

#### Sample ID: T4 - WEST (H801812-05)

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	07/04/2018	ND	1.82	91.2	2.00	1.34	
Toluene*	<0.050	0.050	07/04/2018	ND	1.84	91.8	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/04/2018	ND	1.80	90.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/04/2018	ND	5.57	92.8	6.00	0.840	
Total BTEX	<0.300	0.300	07/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/05/2018	ND	432	108	400	0.00	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	80.7	% 41-142							
Surrogate: 1-Chlorooctadecane	83.6	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

D borator Hoht D S

Page 11 of 66

Page 8 of 8

L

Ζ

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ПO

S L	R		
am	lin',	ASE lyses rice.	
ple	qu	All of Suc	

Received by OCD: 4/11/2023 11:13:57 AM

Ē	(575) 393-2326 FAX (575) 393-2476	<del>1</del> 0				
Company Name:	COG Operating LLC		BILL TO			ANALYSIS REQUEST
Project Manager:	Dakota Neel		P.O. #:			
Address: 2407 F	2407 Pecos Avenue		Company: COG Operating LLC	ating LLC		
City: Artesia	State: NM	Zip 88210		Neill		
Phone #:	(575) 746-2010 Fax #:	8	Address: 600 W Illinois	linois		
Project #:	Project Owner:		City: Midland	-		
Project Name:	M.C. SOUTHEAST BATT.	KX3	State: TX Zip: 79701	z		
Project Location:			#: (432			
Sampler Name:	Dakota Neel		Fax #:			31
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	NG		
Lab I.D. H8018 12	Imple	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	TIME BTEX	TPH Chloride	
	· T3 - BTN	~	X	<u></u>	1	
N	· TU- BTN	×	¥ 1.	×	× X	
22	- 73/74	×	*	X	X Je	
t	TH · ELST	×	*	· · · ×	× ×	
ហ	.14-wssl	~~	c t	t X		
affiliates or successors arising ou affiliates or successors arising ou	service. In one events invariantly involve on regigerice and any outer cause vinascers is an use curved outers made in writing and received by Cardinal writin 30 days after completion of the applicable service. In one event shall Cardinal writin 30 days after completion, business including writing in the interview of the service of the above stated to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	erned waived unless made in writing and r without limitation, business interruptions, los dinal, regardless of whether such claim is	received by Cardinal within 30 days after ss of use, or loss of profits incurred by cl based upon any of the above stated rea	r completion of the applicab lient, its subsidiaries, asons or otherwise.	ē	
Relinquished By:	Date: 7, 2 - 1 S Time: 71; 415 4/~	Received By:	Malaly	Phone Result: Fax Result: REMARKS: dneel2@conch	□ Yes □ No □ Yes □ No 10.com	Add'l Phone #: Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other	- Other: Costellar	Se Sample Condition Cool_Intact Pres Pres	on CHECKED BY: (Initials) TS: HIS		Stop runnir	Stop running Chlorides when <600 mg/kg

4

k





[Sheldon L. Hitchcock] [HSE Coordinator]

April 19, 2018

Olivia Yu Oil Conservation Division, District 1 1625 N. French Dr. Hobbs, NM 88240

Henryetta Price Bureau of Land Management, CFO 620 E. Green Street Carlsbad, NM 88220 **APPROVED** By Olivia Yu at 4:03 pm, May 01, 2018

NMOCD approves of the delineation completed for 1RP-4904. Confirmation sidewalls and bottoms required for the areas represented by T-3 and T-4.

Re: Work Plan MC Southeast Battery API #: 30-025-35252 RP#: 1RP-4917 Unit Letter H Section 21, Township 17S, Range 32E Lea County, NM

Ms. Yu/Ms. Price,

COG Operating, LLC (COG) is pleased to submit for your consideration the following remediation work plan for the MC Southeast Battery. This plan is in response to an oil and produced water release that occurred on January 4, 2018. Subsequent to the release a C-141 initial report was approved by the New Mexico Oil Conservation Division (NMOCD) on January 8, 2018

#### BACKGROUND

The MC Southeast Battery is located in Unit Letter H, Section 21, Township 17 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude for this release are 32.820527 North and -103.765465 West.

On January 4, 2018, a gasket on the heater treater failed resulting in the release of approximately ten (10) barrels (bbls) of oil and one-hundred and eighty (180) bbls of produced water. The overspray impacted the lined tank battery and the adjacent pasture. A vacuum truck was able to recover approximately five (5) bbls of oil and one-hundred and seventy-five (175) bbls of produced water.

On February 15, 2018 COG personnel conducted a site assessment and soil sampling in order to define the area in the pasture that was impacted by overspray. Upon receipt of analytical data from the soil sampling event that took place on February 15, 2018 it was determined that further vertical delineation would be required at sample location T-4. On March 20, 2018, a hand auger was utilized to further vertically delineate this sample location (labeled AH-4). (Site diagram Appendix I)

#### **GROUNDWATER AND SITE RANKING**

According to the New Mexico Office of the State Engineer (NMOSE) groundwater in the project vicinity is approximately eighty-one (81) feet below ground surface (BGS) (Appendix II). No water well or surface water was observed within one-thousand (1,000) feet of the release site. Therefore the site ranking for this release is ten (10) based on the following:

Depth to groundwater	50-100-feet
Distance to surface water body	>1000-feet
Wellhead Protection Area	>1000-feet

#### **Analytical Results**

2/15/2018

Sample ID	Depth (feet)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	Total TPH (mg/kg)
T-1	0	< 0.002	< 0.002	394	164
<b>T-2</b>	0			667	388
<b>T-2</b>	1			21.6	
<b>T-3</b>	0			1110	47.1
T-3	1			324	
<b>T-4</b>	0	< 0.0398	46.0	7110	10100
<b>T-4</b>	1			4010	
<b>T-4</b>	2			3670	
T-5	0	< 0.002	< 0.002	134	17.7

(--) Analysis not requested

March 20, 2018

Sample ID	Depth (feet)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	Total TPH (mg/kg)
AH-4	3	< 0.050	< 0.300	175	14.7
AH-4	4	< 0.050	< 0.300	1600	447.1
AH-4	5	< 0.050	< 0.300	13.4	<10.0

#### **PROPOSED REMEDIAL ACTIONS**

- The impacted gravel within the lined facility has been removed and hauled to an NMOCD approved solid waste disposal facility. The liner has been inspected for damage and found to have structural integrity to retain free fluids. The gravel has been replaced.
- The impacted area in the vicinity of sample location T-3 will be excavated to a depth of 1-foot BGS.
- The impacted area in the vicinity of sample location T-4/AH-4 will be excavated to a depth of 5-feet BGS.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavated area will be backfilled with clean "like" material, contoured to match the surrounding terrain and seeded with BLM seed mixture #2.

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

Sincerely,

Sheldon Jutan

Sheldon L. Hitchcock HSE Coordinator <u>slhitchcock@concho.com</u>

Enclosed:

Appendix I: Site Diagram Appendix II: Groundwater Data Appendix III: Initial C-141 (Copy) Appendix IV: Analytical Reports and Chain-of-Custody Forms

# APPENDIX I

## MC Southeast Tank Battery



# APPENDIX II



## 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 closed)	•••					2=NE 3	3=SW 4=S	SE) NAD83 UTM in m	otors)	(	In feet)	
water right me.)	POD	(զս	anter	5 an	e sin	lalles	1 10 181	gesi) (		elers)	(	in ieel)	
	Sub-	C	Q	Q							Depth	Depth	Water
POD Number	Code basin Co				Sec 1	ſws	Rng	>	(Y	Distance			Column
RA 12042 POD1	L	.E 2	2 2	1	28 <sup>-</sup>	17S	32E	61489 <sup>.</sup>	1 3631181 🌍	1259	400		
RA 10175	L	E	2	1	28 <sup>-</sup>	17S	32E	614814	4 3631005* 🌍	1448	158		
RA 12020 POD1	L	.E 2	2 2	1	28 <sup>-</sup>	17S	32E	614828	3 3630954 🌍	1483	120	81	39
RA 08855	L	.E 4	1	1	10 <sup>-</sup>	17S	32E	61606	1 3635742* 🌍	3552	158		
RA 11911 POD1	L	.E 1	3	1	24 <sup>-</sup>	17S	32E	619192	2 3632296 🌍	3588	35		
RA 09505	L	.E 2	2 2	1	10 <sup>-</sup>	17S	32E	616462	2 3635944 🌍	3823	147		
L 13050 POD1	LL	.E 2	2 2	1	10 <sup>-</sup>	17S	32E	616463	3 3635945* 🌍	3823	156	132	24
RA 09505 S	L	.E 2	2 2	1	10 <sup>-</sup>	17S	32E	616463	3 3635945* 🌍	3823	144		
RA 11734 POD1	L	.E 2	2 2	1	10 <sup>-</sup>	17S	32E	61655	6 3635929 🌍	3830	165		
RA 11684 POD1	L	.E 1	1	4	11 ·	17S	32E	61821	6 3635124 🌍	3906	275		
RA 11684 POD5	L	.E 3	3 1	4	11 ·	17S	32E	61835	3 3635047 🌍	3943	275		
L 13047 POD1	LL	E			11 ·	17S	32E	61818	7 3635254* 🌍	3985	140		
									Avera	age Depth to	Water:	106	feet
										Minimum	Depth:	81	feet
										Maximum	Depth:	132	feet
Record Count: 12													

#### **Basin/County Search:**

County: Lea

#### UTMNAD83 Radius Search (in meters):

Easting (X): 615604

Northing (Y): 3632219

Radius: 4000

#### \*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.

4/11/18 10:01 AM

# APPENDIX III

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Page 21 of 66

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

Dalaasa Natifia	cation and Corrective Action
Kelease moulie	
Name of Company: COG Operating, LLC (OGRID# 229)	
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No.: <b>432-683-7443</b>
Facility Name: MC Southeast Battery	Facility Type: Tank Battery
• • • • •	
Surface Owner: BLM Mineral O	Owner: Federal         API No.:         30-025-35252
	ATION OF RELEASE
Unit Letter Section Township Range Feet from the 21 17S 32E	North/South Line         Feet from the         East/West Line         County           Lea         Lea         Lea         Lea         Lea
	0527 Longitude: -103.765465 NAD83
	TURE OF RELEASE
Type of Release: Oil & Produced Water	Volume of Release:Volume Recovered:10bbls Oil & 180bbls PW5bbls Oil & 175bbls PW
Source of Release: Heater Treater	Date and Hour of Occurrence:Date and Hour of Discovery:1/4/20181/4/2018 4:30am
Was Immediate Notice Given?	If YES, To Whom?
🛛 Yes 📋 No 📋 Not Re	Shelly Tucker-BLM
By Whom? Rebecca Haskell	Date and Hour: 1/4/2018 12:34pm
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.
🗌 Yes 🖾 No	
If a Watercourse was Impacted, Describe Fully.*	RECEIVED
Describe Cause of Problem and Remedial Action Taken.*	By Olivia Yu at 1:32 pm, Jan 08, 2018
Deserve Cause of Froblem and Remedial Action Taken.	
	proximately 10bbls of oil and 180bbls of produced water. The gasket was replaced.
Describe Area Affected and Cleanup Action Taken.*	
The majority of the fluid was contained within the lined facility.	However there was overspray in the pasture measuring approximately 400' x 115'. A
	ncho will have the spill area evaluated for any possible impact from the release and we
will present a remediation work plan to the NMOCD for approval	l prior to any significant remediation activities.
	blete to the best of my knowledge and understand that pursuant to NMOCD rules and
	release notifications and perform corrective actions for releases which may endanger ort by the NMOCD marked as "Final Report" does not relieve the operator of liability
	remediate contamination that pose a threat to ground water, surface water, human health
	report does not relieve the operator of responsibility for compliance with any other
federal, state, or local laws and/or regulations.	
	OIL CONSERVATION DIVISION
Signature: Sheldon Jutan	
Signature: On on on one	Approved by Environmental Specialist:
Printed Name: Sheldon L. Hitchcock	
	1/8/2018
Title: HSE Coordinator	Approval Date: Expiration Date:
E-mail Address: slhitchcock@concho.com	Conditions of Approval:
~	see attached directive
Date: 1/8/2018 Phone: 575-746-2010	Please inspect liner in question. Provide
Attach Additional Sheets If Necessary	
	INMOCD with a concise report of the Inspection with affirmation the liner has
nOY1800849426	and will continue to contain liquids.
	Confirmatory laboratory analyses of
pOY1800849665	discrete soil samples (0-6" bgs) from the
II	עוזער בנב זעון זמווועובז נעדע האצו וועוון נוופ ן

discrete soil samples (0-6" bgs) from the impacted pasture area are required.

Released to Imaging: 5/3/2023 8:49:55 AM

# APPENDIX IV





Project Id:Contact:Dakota Neel

Project Location:

Certificate of Analysis Summary 576847

COG Operating LLC, Artesia, NM Project Name: MC Southeast Battery



Date Received in Lab:Mon Feb-19-18 09:08 amReport Date:06-MAR-18Project Manager:Kelsey Brooks

	Lab Id:	576847-0	001	576847-0	04	576847-0	005	576847-0	007	576847-0	08	576847-0	010
Analysis Proprested	Field Id:	T-1		T-2		T-2		T-3		T-3		T-4	
Analysis Requested	Depth:	0- ft		0- ft		1- ft		0- ft		1- ft		0- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-15-18 (	09:00	Feb-15-18 (	09:00	Feb-15-18 (	09:00	Feb-15-18 (	09:00	Feb-15-18 (	9:00	Feb-15-18	09:00
BTEX by EPA 8021B	Extracted:	Feb-20-18	15:00	Feb-20-18 1	5:00			Feb-20-18	15:00			Feb-23-18	08:00
	Analyzed:	Feb-21-18	23:26	Feb-21-18 2	3:07			Feb-21-18 2	22:48			Feb-23-18	15:09
	Units/RL:	mg/kg	RL	mg/kg	RL			mg/kg	RL			mg/kg	RL
Benzene		< 0.00199	0.00199	< 0.00201	0.00201			< 0.00202	0.00202			< 0.0398	0.0398
Toluene		< 0.00199	0.00199	< 0.00201	0.00201			< 0.00202	0.00202			1.06	0.0398
Ethylbenzene		< 0.00199	0.00199	< 0.00201	0.00201			< 0.00202	0.00202			24.1 D	0.994
m,p-Xylenes		< 0.00398	0.00398	< 0.00402	0.00402			< 0.00403	0.00403			13.3	0.0795
o-Xylene		< 0.00199	0.00199	< 0.00201	0.00201			< 0.00202	0.00202			7.53	0.0398
Total Xylenes			0.00199	< 0.00201	0.00201			< 0.00202	0.00202			20.8	0.0398
Total BTEX <0		< 0.00199	0.00199	< 0.00201	0.00201			< 0.00202	0.00202			46.0	0.0398
Chloride by EPA 300	Extracted:	Feb-23-18	13:30	Feb-23-18 13:30		Feb-27-18 1	18:00	Feb-23-18	13:30	Feb-27-18 1	8:00	Feb-23-18 13:30	
	Analyzed:	Feb-23-18	17:49	Feb-23-18 18:05		Feb-27-18 18:42 Feb-23-18		18:11 Feb-27-18 19:04		9:04	Feb-23-18 18:16		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		394	5.00	667	5.00	21.6	4.93	1110	4.95	324	4.96	7110	49.9
TPH By SW8015 Mod	Extracted:	Feb-21-18	10:00	Feb-21-18 1	0:00			Feb-21-18	10:00			Feb-21-18	10:00
	Analyzed:	Feb-21-18	12:35	Feb-21-18 1	3:00			Feb-21-18	13:28			Feb-22-18	11:57
	Units/RL:	mg/kg	RL	mg/kg	RL			mg/kg	RL			mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0			<15.0	15.0			1320	149
Diesel Range Organics (DRO)		164	15.0	388	15.0			47.1	15.0			8770	149
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<15.0	15.0			<15.0	15.0			<149	149
Total TPH		164	15.0	388	15.0			47.1	15.0			10100	149

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 makes 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.

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

Huns Boah

Kelsey Brooks Project Manager





**Project Id: Contact:** Dakota Neel

**Project Location:** 

Certificate of Analysis Summary 576847

COG Operating LLC, Artesia, NM **Project Name: MC Southeast Battery** 



Date Received in Lab: Mon Feb-19-18 09:08 am Report Date: 06-MAR-18 Project Manager: Kelsey Brooks

	Lab Id:	576847-0	11	576847-0	12	576847-0	13		
					12		1.5		
Analysis Requested	Field Id:	T-4		T-4		T-5			
1	Depth:	1- ft		2- ft		0- ft			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Feb-15-18 (	09:00	Feb-15-18 (	09:00	Feb-15-18 0	09:00		
BTEX by EPA 8021B	Extracted:					Feb-23-18 0	08:00		
	Analyzed:					Feb-23-18 1	4:31		
	Units/RL:					mg/kg	RL		
Benzene						< 0.00202	0.00202		
Toluene						< 0.00202	0.00202		
Ethylbenzene						< 0.00202	0.00202		
m,p-Xylenes						< 0.00403	0.00403		
o-Xylene						< 0.00202	0.00202		
Total Xylenes							0.00202		
Total BTEX						< 0.00202	0.00202		
Chloride by EPA 300	Extracted:	Feb-27-18	Feb-27-18 18:00		Mar-02-18 09:00		3:30		
	Analyzed:	Feb-27-18	18:49	Mar-02-18 10:52		Feb-23-18 18:21			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		4010	24.5	3670	24.8	134	5.00		
TPH By SW8015 Mod	Extracted:					Feb-20-18 0	07:00		
	Analyzed:					Feb-21-18 0	9:29		
	Units/RL:					mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)						<15.0	15.0		
Diesel Range Organics (DRO)						17.7	15.0		
Oil Range Hydrocarbons (ORO)						<15.0	15.0		
Total TPH						17.7	15.0		

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 makes 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,

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

Huns Boah

Kelsey Brooks Project Manager

## Analytical Report 576847

for COG Operating LLC

**Project Manager: Dakota Neel** 

MC Southeast Battery

#### 06-MAR-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-18-24), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-18-14) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176)



06-MAR-18

Project Manager: **Dakota Neel COG Operating LLC** 2407 Pecos Avenue Artesia, NM 88210

Reference: XENCO Report No(s): 576847 MC Southeast Battery Project Address:

#### Dakota Neel:

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) 576847. 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. 576847 will be filed for 45 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,

Huns hoah

Kelsey Brooks Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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





## Sample Cross Reference 576847



### COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T-1	S	02-15-18 09:00	0 ft	576847-001
T-2	S	02-15-18 09:00	0 ft	576847-004
T-2	S	02-15-18 09:00	1 ft	576847-005
T-3	S	02-15-18 09:00	0 ft	576847-007
T-3	S	02-15-18 09:00	1 ft	576847-008
T-4	S	02-15-18 09:00	0 ft	576847-010
T-4	S	02-15-18 09:00	1 ft	576847-011
T-4	S	02-15-18 09:00	2 ft	576847-012
T-5	S	02-15-18 09:00	0 ft	576847-013
T-1	S	02-15-18 09:00	1 ft	Not Analyzed
T-1	S	02-15-18 09:00	2 ft	Not Analyzed
T-2	S	02-15-18 09:00	2 ft	Not Analyzed
T-3	S	02-15-18 09:00	2 ft	Not Analyzed
T-5	S	02-15-18 09:00	1 ft	Not Analyzed
T-5	S	02-15-18 09:00	2 ft	Not Analyzed



Client Name: COG Operating LLC Project Name: MC Southeast Battery

Project ID: Work Order Number(s): 576847 Report Date:06-MAR-18Date Received:02/19/2018

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3041964 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3041987 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3042371 Inorganic Anions by EPA 300

Lab Sample ID 577603-002 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 576847-005, -008, -011.

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





## COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: <b>T-1</b> Lab Sample Id: 576847-001		Matrix: Date Collect	Soil ed: 02.15.18 09.00	_	Date Received: Cample Depth: (	02.19.18 09.08 0 ft	
Analytical Method: Chloride by EPA 3 Tech: LRI Analyst: OJS Seq Number: 3042082	300	Date Prep:	02.23.18 13.30	%	Prep Method: 1 6 Moisture: Basis:	E300P Wet Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Dat	e Flag	Dil

				emis	1111113010 20000	 21
Chloride	16887-00-6	394	5.00	mg/kg	02.23.18 17.49	1

Analytical Method: TPH By SW80 Tech: ARM	15 Mod					rep Method: TX 6 Moisture:	1005P	
Analyst: ARM		Date Pre	p: 02.21	18 10.00	E	Basis: We	t Weight	
Seq Number: 3041818								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	02.21.18 12.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	164	15.0		mg/kg	02.21.18 12.35		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	02.21.18 12.35	U	1
Total TPH	PHC635	164	15.0		mg/kg	02.21.18 12.35		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	90	%	70-135	02.21.18 12.35		
o-Terphenyl		84-15-1	89	%	70-135	02.21.18 12.35		





## COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id:T-1Lab Sample Id:576847-001	Matrix: Soil Date Collected: 02.15.18 09.00	Date Received:02.19.18 09.08 Sample Depth: 0 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ Analyst: ALJ	Date Prep: 02.20.18 15.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight
Seq Number: 3041964	Date Hep. 02.20.10 15.00	Dusis. Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	02.21.18 23.26	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	02.21.18 23.26	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	02.21.18 23.26	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	02.21.18 23.26	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	02.21.18 23.26	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	02.21.18 23.26	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	02.21.18 23.26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	85	%	80-120	02.21.18 23.26		
4-Bromofluorobenzene		460-00-4	102	%	80-120	02.21.18 23.26		





1

## COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: Lab Sample Id	<b>T-2</b> d: 576847-004		Matrix: Date Colle	Soil cted: 02.15.18 09.00	-	Date Received Sample Depth	1:02.19.18 09. 1:0 ft	08
Analytical Me Tech:	ethod: Chloride by EPA 3 LRI	600				Prep Method: % Moisture:	E300P	
Analyst:	OJS		Date Prep:	02.23.18 13.30	]	Basis:	Wet Weight	
Seq Number:	3042082							
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil

 Chloride
 16887-00-6
 667
 5.00
 mg/kg
 02.23.18
 18.05

Analytical Method: TPH By SW801 Tech: ARM Analyst: ARM Seq Number: 3041818	5 Mod	Date Prej	p: 02.21.	18 10.00	%	Prep Method: TX 6 Moisture: Basis: Wet	1005P : Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	02.21.18 13.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	388	15.0		mg/kg	02.21.18 13.00		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	02.21.18 13.00	U	1
Total TPH	PHC635	388	15.0		mg/kg	02.21.18 13.00		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	02.21.18 13.00		
o-Terphenyl	:	84-15-1	102	%	70-135	02.21.18 13.00		





## COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id:T-2Lab Sample Id:576847-004	Matrix: Soil Date Collected: 02.15.18 09.00	Date Received:02.19.18 09.08 Sample Depth: 0 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3041964	Date Prep: 02.20.18 15.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	02.21.18 23.07	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	02.21.18 23.07	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	02.21.18 23.07	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	02.21.18 23.07	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	02.21.18 23.07	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	02.21.18 23.07	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	02.21.18 23.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	82	%	80-120	02.21.18 23.07		
4-Bromofluorobenzene		460-00-4	105	%	80-120	02.21.18 23.07		





## COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: <b>T-2</b> Lab Sample Id: 576847-005		Matrix: Date Collecte	Soil ed: 02.15.18 09.00		Date Received Sample Depth	d:02.19.18 09.0 n: 1 ft	8
Analytical Method: Chloride by EPA 3 Tech: OJS Analyst: OJS Seq Number: 3042371	800	Date Prep:	02.27.18 18.00		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter	Cas Number	Result I	AT	Units	Analysis D	ate Flag	Dil

Chloride

16887-00-6 **21.6** 

4.93

mg/kg 02.27.18 18.42

1





## COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: <b>T-3</b> Lab Sample Id: 576847-007		Matrix: Date Collecte	Soil d: 02.15.18 09.00	Date Receiv Sample Dep	ved:02.19.18 09.08 oth: 0 ft
Analytical Method: Chloride by EPA Tech: LRI Analyst: OJS	300	Date Prep:	02.23.18 13.30	Prep Metho % Moisture Basis:	
Seq Number: 3042082	Cas Number	Result R	L	Units Analysis	Date Flag Dil

1 ar anicter	Cas Muniber	Ktsuit	KL	Units	Analysis Date	Flag	Dii
Chloride	16887-00-6	1110	4.95	mg/kg	02.23.18 18.11		1

Analytical Method: TPH By SW80 Tech: ARM Analyst: ARM Seq Number: 3041818	15 Mod	Date Pre	p: 02.21	.18 10.00	9/	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	02.21.18 13.28	U	1
Diesel Range Organics (DRO)	C10C28DRO	47.1	15.0		mg/kg	02.21.18 13.28		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	02.21.18 13.28	U	1
Total TPH	PHC635	47.1	15.0		mg/kg	02.21.18 13.28		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	109	%	70-135	02.21.18 13.28		
o-Terphenyl		84-15-1	103	%	70-135	02.21.18 13.28		





## COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id:T-3Lab Sample Id:576847-007	Matrix: Soil Date Collected: 02.15.18 09.00	Date Received:02.19.18 09.08 Sample Depth: 0 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3041964	Date Prep: 02.20.18 15.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	02.21.18 22.48	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	02.21.18 22.48	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	02.21.18 22.48	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	02.21.18 22.48	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	02.21.18 22.48	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	02.21.18 22.48	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	02.21.18 22.48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	86	%	80-120	02.21.18 22.48		
4-Bromofluorobenzene		460-00-4	107	%	80-120	02.21.18 22.48		





## COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: <b>T-3</b> Lab Sample Id: 576847-008				Date Received:02.19.18 09.08 Sample Depth: 1 ft			
Analytical Method: Chloride by EPA 3 Tech: OJS Analyst: OJS Seq Number: 3042371	300	Date Prep:	02.27.18 18.00		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter	Cas Number	Result F	RL	Units	Analysis D	ate Flag	Dil

324

Chloride

16887-00-6

4.96

02.27.18 19.04

mg/kg

1




#### COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: <b>T-4</b> Lab Sample Id: 576847-010		Matrix: Soil Date Collected: 02.15.18 09.00			Date Received:02.19.18 09.08 Sample Depth:0 ft			
Analytical Method: Chloride by EPA 3 Tech: LRI Analyst: OJS Seq Number: 3042082	00	Date Prep:	02.23.18 13.30		Prep Method: % Moisture: Basis:	E300P Wet Weight		
Parameter	Cas Number	Result F	L	Units	Analysis D	ate Flag	Dil	

rarameter	Cas Number	Result	KL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7110	49.9	mg/kg	02.23.18 18.16		10

Analytical Method: TPH By SW801 Tech: ARM Analyst: ARM	5 Mod	Date Pre	.n: 02.21	.18 10.00	9	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Seq Number: 3041818		Date The	p. 02.21	.10 10.00	L		e worgine	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	1320	149		mg/kg	02.22.18 11.57		10
Diesel Range Organics (DRO)	C10C28DRO	8770	149		mg/kg	02.22.18 11.57		10
Oil Range Hydrocarbons (ORO)	PHCG2835	<149	149		mg/kg	02.22.18 11.57	U	10
Total TPH	PHC635	10100	149		mg/kg	02.22.18 11.57		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	121	%	70-135	02.22.18 11.57		
o-Terphenyl		84-15-1	110	%	70-135	02.22.18 11.57		





#### COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id:         T-4           Lab Sample Id:         576847-010	Matrix: Soil Date Collected: 02.15.18 09.00	Date Received:02.19.18 09.08 Sample Depth:0 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3041987	Date Prep: 02.23.18 08.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0398	0.0398		mg/kg	02.23.18 15.09	U	20
Toluene	108-88-3	1.06	0.0398		mg/kg	02.23.18 15.09		20
Ethylbenzene	100-41-4	24.1	0.994		mg/kg	02.23.18 13.11	D	500
m,p-Xylenes	179601-23-1	13.3	0.0795		mg/kg	02.23.18 15.09		20
o-Xylene	95-47-6	7.53	0.0398		mg/kg	02.23.18 15.09		20
Total Xylenes	1330-20-7	20.8	0.0398		mg/kg	02.23.18 15.09		20
Total BTEX		46.0	0.0398		mg/kg	02.23.18 13.11		500
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	80-120	02.23.18 15.09		
1,4-Difluorobenzene		540-36-3	81	%	80-120	02.23.18 15.09		





5

#### COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: <b>T-4</b> Lab Sample Id: 576847-011		Matrix: Date Collecte	Soil ed: 02.15.18 09.00		Date Received Sample Depth		9.08
Analytical Method: Chloride by EPA 30 Tech: OJS Analyst: OJS Seq Number: 3042371	00	Date Prep:	02.27.18 18.00		Prep Method: % Moisture: Basis:	E300P Wet Weigh	ht
Parameter	Cas Number	Result I	RL	Units	Analysis D	ate Flag	Dil

4010

Chloride

16887-00-6

24.5

mg/kg

02.27.18 18.49

Released to Imaging: 5/3/2023 8:49:55 AM





5

#### COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: <b>T-4</b> Lab Sample Id: 576847-012		Matrix: Date Collecte	Soil ed: 02.15.18 09.00		Date Received Sample Depth	d:02.19.18 09.0 n: 2 ft	8
Analytical Method: Chloride by EPA 3 Tech: OJS	300				Prep Method: % Moisture:	E300P	
Analyst: OJS Seq Number: 3042826		Date Prep:	03.02.18 09.00		Basis:	Wet Weight	
Parameter	Cas Number	Result I	RL	Units	Analysis D	ate Flag	Dil

3670

Chloride

16887-00-6

24.8

mg/kg

03.02.18 10.52





#### COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: <b>T-5</b> Lab Sample Id: 576847-013		Matrix: Date Collecte	Soil d: 02.15.18 09.00	Date Receiv Sample Dep	ed:02.19.18 09.08 th:0 ft
Analytical Method: Chloride by EPA Tech: LRI Analyst: OJS Seq Number: 3042082	300	Date Prep:	02.23.18 13.30	Prep Method % Moisture: Basis:	
Parameter	Cas Number	Result R	RL .	Units Analysis	Date Flag Dil

i ai ametei	Cus rumber	Result	KL	Units	Analysis Date	Flag	Dii
Chloride	16887-00-6	134	5.00	mg/kg	02.23.18 18.21		1

Analytical Method: TPH By SW80 Tech: ARM Analyst: ARM Seq Number: 3041815	15 Mod	Date Pre	p: 02.20	.18 07.00	9/	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	02.21.18 09.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	17.7	15.0		mg/kg	02.21.18 09.29		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	02.21.18 09.29	U	1
Total TPH	PHC635	17.7	15.0		mg/kg	02.21.18 09.29		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	105	%	70-135	02.21.18 09.29		
o-Terphenyl		84-15-1	107	%	70-135	02.21.18 09.29		





#### COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: T-5	Matrix: Soil	Date Received:02.19.18 09.08
Lab Sample Id: 576847-013	Date Collected: 02.15.18 09.00	Sample Depth: 0 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3041987	Date Prep: 02.23.18 08.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	02.23.18 14.31	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	02.23.18 14.31	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	02.23.18 14.31	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	02.23.18 14.31	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	02.23.18 14.31	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	02.23.18 14.31	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	02.23.18 14.31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	80	%	80-120	02.23.18 14.31		
4-Bromofluorobenzene		460-00-4	120	%	80-120	02.23.18 14.31		



### LABORATORIES

#### **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 LimitSDL Sample Detection LimitLOD Limit of DetectionPQL Practical Quantitation LimitMQL Method Quantitation LimitLOQ 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

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

Certified and approved by numerous States and Agencies.

#### A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Dhone

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

	FIIOIIC	Tax
4147 Greenbriar Dr, Stafford, TX 77477	(281) 240-4200	(281) 240-4280
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	

Final 1.001

Page 43 of 66



#### **COG Operating LLC**

MC Southeast Battery

Analytical Method: Seq Number: MB Sample Id:	<b>Chloride by EPA 30</b> 3042082 7639674-1-BLK	0		Matrix: nple Id:	Solid 7639674-	1-BKS		Prep Method: E300P Date Prep: 02.23.18 LCSD Sample Id: 7639674-1-BSD
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD RPD Limit Units Analysis Flag Date
Chloride	<5.00	250	258	103	258	103	90-110	0 20 mg/kg 02.23.18 15:45
-	Chloride by EPA 30	0						Prep Method: E300P
Seq Number:	3042371			Matrix:		1 DVC		Date Prep: 02.27.18
MB Sample Id:	7639874-1-BLK	G . 1		•	7639874-		<b>T</b> • • • •	LCSD Sample Id: 7639874-1-BSD
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD RPD Limit Units Analysis Flag Date Flag
Chloride	<5.00	250	239	96	239	96	90-110	0 20 mg/kg 02.27.18 16:20
-	Chloride by EPA 30	0						Prep Method: E300P
Seq Number:	3042826			Matrix:		1 DVG		Date Prep: 03.02.18
MB Sample Id:	7640118-1-BLK	<i>a</i> <b>n</b>		-	7640118-			LCSD Sample Id: 7640118-1-BSD
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD RPD Limit Units Analysis Flag Date
Chloride	<5.00	250	265	106	266	106	90-110	0 20 mg/kg 03.02.18 10:26
Analytical Method:	Chloride by EPA 30	0						Prep Method: E300P
Seq Number:	3042082			Matrix:				Date Prep: 02.23.18
Parent Sample Id:	576852-003		MS Sar	nple Id:	576852-0	03 S		MSD Sample Id: 576852-003 SD
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD RPD Limit Units Analysis Flag Date
Chloride	295	247	525	93	533	96	90-110	2 20 mg/kg 02.23.18 16:12
		0						
Analytical Method: Seq Number:	Chloride by EPA 30 3042082	U		Matrix:	Soil			Prep Method: E300P Date Prep: 02.23.18
				1 1 1	576052 0	12.0		MOD G 1 LL 57(052.012.0D

Parent Sample Id:	576852-013		MS San	nple Id:	576852-01	13 S		MS	D Sample	e Id: 5768	352-013 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	36.1	249	309	110	299	106	90-110	3	20	mg/kg	02.23.18 17:39	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery

LCS = Laboratory Control Sample A = Parent ResultC = MS/LCS ResultE = MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

.

Page 22 of 29



BORATORIES

#### **COG Operating LLC**

MC Southeast Battery

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Chloride by EPA 3</b> 3042371 576847-008	00		Matrix:	Soil 576847-0	08 S		Prep Meth Date F MSD Samp	rep: 02.2	0P 27.18 847-008 SD	
Parameter	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD RPD Li		Analysis	Flag
Chloride	Result 324	Amount 248	Result 513	<b>%Rec</b> 76	Result 582	<b>%Rec</b> 104	90-110	13 20	mg/kg	Date 02.27.18 19:11	X
Cinorial	524	240	515	70	562	104	<i>y</i> 0 110	15 20	ing kg	02127110 17111	Α
•	Chloride by EPA 3	00						Prep Met			
Seq Number:	3042371 577603-002			Matrix:	Soil 577603-0	12 5		Date P MSD Samp	-	27.18 603-002 SD	
Parent Sample Id: Parameter	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD RPD Lin		Analysis	Flag
Chloride	Result 151	Amount 250	Result 394	<b>%Rec</b> 97	Result 395	<b>%Rec</b> 98	90-110	0 20	mg/kg	Date 02.27.18 17:28	0
Analytical Method:					070		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Prep Met			
Seq Number:	3042826		]	Matrix:	Soil			Date P		)2.18	
Parent Sample Id:	577798-001		MS San	nple Id:	577798-0	01 S		MSD Samp	le Id: 577	798-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD RPD Lii	nit Units	Analysis Date	Flag
Chloride	56.6	250	321	106	323	107	90-110	1 20	mg/kg	03.02.18 10:42	
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Chloride by EPA 3</b> 3042826 577798-002	00		Matrix: nple Id:	Soil 577798-00	02 S		Prep Meti Date F MSD Samp	rep: 03.0	0P )2.18 798-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD RPD Lii	nit Units	Analysis Date	Flag
Chloride	322	249	606	114	596	110	90-110	2 20	mg/kg	03.02.18 11:56	Х
Seq Number: MB Sample Id:	<b>TPH By SW8015 M</b> 3041815 7639517-1-BLK <b>MB</b>	Iod Spike		Matrix: nple Id: LCS	Solid 7639517- LCSD	1-BKS LCSD	Limits	Prep Met Date F LCSD Samp <b>%RPD RPD Lin</b>	rep: 02.2 le Id: 763	1005P 20.18 9517-1-BSD Analysis	Flor
Parameter	Result	Amount	Result	%Rec	Result	%Rec				Date	Flag
Gasoline Range Hydrocarb Diesel Range Organics		1000 1000	875 963	88 96	868 961	87 96	70-135 70-135	1 35 0 35	mg/kg mg/kg	02.20.18 08:17 02.20.18 08:17	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Units	Analysis Date	
1-Chlorooctane	119			09		107		70-135	%	02.20.18 08:17	
o-Terphenyl	125		1	07		106		70-135	%	02.20.18 08:17	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

Page 23 of 29



BORATORIES



#### **COG Operating LLC**

MC Southeast Battery

<b>Analytical Method:</b> Seq Number:	3041818		lod	LCS Sar	Matrix:		1 DVS			Prep Method Date Prej	p: 02.2	1005P 21.18 9556-1-BSD	
MB Sample Id:	7639556-				1	7639556-	I-DKS			1			
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPE	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	1000	937	94	877	88	70-135	7	35	mg/kg	02.21.18 11:41	
Diesel Range Organics	(DRO)	<15.0	1000	1010	101	949	95	70-135	6	35	mg/kg	02.21.18 11:41	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re		-	Limits	Units	Analysis Date	
1-Chlorooctane		93		1	19		109		7	70-135	%	02.21.18 11:41	
o-Terphenyl		97		1	13		106		7	70-135	%	02.21.18 11:41	

Analytical Method: Seq Number: Parent Sample Id:	<b>TPH By S</b> 3041815 576746-00		lod		Matrix: nple Id:		01 S			Prep Method Date Prep SD Sample 1	p: 02.2	1005P 20.18 746-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI	) RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	998	868	87	858	86	70-135	1	35	mg/kg	02.20.18 09:34	
Diesel Range Organics	(DRO)	<15.0	998	966	97	960	96	70-135	1	35	mg/kg	02.20.18 09:34	
Surrogate					IS Rec	MS Flag	MSD %Re		-	Limits	Units	Analysis Date	
1-Chlorooctane				1	10		107			70-135	%	02.20.18 09:34	
o-Terphenyl				1	06		105		,	70-135	%	02.20.18 09:34	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>TPH By S</b> 3041818 576847-00		lod		Matrix: nple Id:	Soil 576847-00	)7 S			Prep Method Date Prep SD Sample I	p: 02.2	1005P 21.18 847-007 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPE	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	997	886	89	1010	101	70-135	13	35	mg/kg	02.21.18 13:53	
Diesel Range Organics	(DRO)	47.1	997	1070	103	1100	106	70-135	3	35	mg/kg	02.21.18 13:53	
Surrogate					IS Rec	MS Flag	MSD %Re			Limits	Units	Analysis Date	
1-Chlorooctane				1	08		119		7	0-135	%	02.21.18 13:53	
o-Terphenyl				1	06		114		7	0-135	%	02.21.18 13:53	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.



BORATORIES



#### **COG Operating LLC**

MC Southeast Battery

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>BTEX by EPA 802</b> 3041964 7639673-1-BLK	1B	LCS Sar	Matrix: nple Id:	Solid 7639673-	1-BKS			Prep Metho Date Pre SD Sample	p: 02.2	5030B 20.18 9673-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00199	0.0994	0.0823	83	0.0935	94	70-130	13	35	mg/kg	02.21.18 20:15	
Toluene	< 0.00199	0.0994	0.0887	89	0.101	101	70-130	13	35	mg/kg	02.21.18 20:15	
Ethylbenzene	< 0.00199	0.0994	0.102	103	0.117	117	71-129	14	35	mg/kg	02.21.18 20:15	
m,p-Xylenes	< 0.00398	0.199	0.201	101	0.229	114	70-135	13	35	mg/kg	02.21.18 20:15	
o-Xylene	< 0.00199	0.0994	0.0994	100	0.114	114	71-133	14	35	mg/kg	02.21.18 20:15	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	83		8	87		86		8	0-120	%	02.21.18 20:15	
4-Bromofluorobenzene	99		1	08		112		8	0-120	%	02.21.18 20:15	

Analytical Method:	BTEX by EPA 802	1B						]	Prep Metho	d: SW:	5030B	
Seq Number:	3041987			Matrix:	Solid				Date Pre	p: 02.2	3.18	
MB Sample Id:	7639672-1-BLK		LCS Sar	nple Id:	7639672-	1-BKS		LC	SD Sample	Id: 7639	9672-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPE	) RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0930	92	0.0843	84	70-130	10	35	mg/kg	02.23.18 07:54	
Toluene	< 0.00202	0.101	0.0996	99	0.0910	91	70-130	9	35	mg/kg	02.23.18 07:54	
Ethylbenzene	< 0.00202	0.101	0.114	113	0.104	104	71-129	9	35	mg/kg	02.23.18 07:54	
m,p-Xylenes	< 0.00403	0.202	0.224	111	0.205	102	70-135	9	35	mg/kg	02.23.18 07:54	
o-Xylene	< 0.00202	0.101	0.110	109	0.101	101	71-133	9	35	mg/kg	02.23.18 07:54	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSD %Rec		-	Limits	Units	Analysis Date	
1,4-Difluorobenzene	83		8	31		82		8	80-120	%	02.23.18 07:54	
4-Bromofluorobenzene	107		1	11		117		8	80-120	%	02.23.18 07:54	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 802</b> 3041964 576848-003	1B	MS San	Matrix: nple Id:		)3 S			Prep Metho Date Pre SD Sample	p: 02.2	5030B 20.18 848-003 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI	) RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0730	72	0.0738	74	70-130	1	35	mg/kg	02.21.18 20:53	
Toluene	0.00225	0.101	0.0781	75	0.0777	76	70-130	1	35	mg/kg	02.21.18 20:53	
Ethylbenzene	< 0.00202	0.101	0.0875	87	0.0848	85	71-129	3	35	mg/kg	02.21.18 20:53	
m,p-Xylenes	< 0.00403	0.202	0.171	85	0.166	83	70-135	3	35	mg/kg	02.21.18 20:53	
o-Xylene	< 0.00202	0.101	0.0859	85	0.0823	83	71-133	4	35	mg/kg	02.21.18 20:53	
Surrogate				1S Rec	MS Flag	MSD %Re			Limits	Units	Analysis Date	
1,4-Difluorobenzene			8	33		87		:	30-120	%	02.21.18 20:53	
4-Bromofluorobenzene			1	06		105		;	30-120	%	02.21.18 20:53	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery  $LCS = Laboratory Control Sample \qquad MS = \\ A = Parent Result \qquad B = \\ C = MS/LCS Result \qquad D \\ E = MSD/LCSD Result \qquad$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.





#### **COG Operating LLC**

MC Southeast Battery

Analytical Method: Seq Number:	BTEX by EPA 802 3041987	1B	1	Matrix:	Soil			F	Prep Methoo Date Prep		5030B 3.18	
Parent Sample Id:	576848-010		MS San			10 S		MS	SD Sample		848-010 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits		RPD Limit		Analysis Date	Flag
Benzene	< 0.00201	0.100	0.0771	77	0.0724	73	70-130	6	35	mg/kg	02.23.18 08:43	
Toluene	< 0.00201	0.100	0.0818	82	0.0761	76	70-130	7	35	mg/kg	02.23.18 08:43	
Ethylbenzene	< 0.00201	0.100	0.0923	92	0.0856	86	71-129	8	35	mg/kg	02.23.18 08:43	
m,p-Xylenes	< 0.00402	0.201	0.182	91	0.170	85	70-135	7	35	mg/kg	02.23.18 08:43	
o-Xylene	< 0.00201	0.100	0.0899	90	0.0849	85	71-133	6	35	mg/kg	02.23.18 08:43	
Surrogate				IS Rec	MS Flag	MSD %Re			<i>l</i> imits	Units	Analysis Date	
1,4-Difluorobenzene			8	37		82		8	0-120	%	02.23.18 08:43	
4-Bromofluorobenzene			1	19		117		8	0-120	%	02.23.18 08:43	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

			WWW		WWW.X	www.xenco.com	в			Xenco Quote #	ote #		Xenco Job #	5	-4391	
											Ana	Analytical Information	ation	R		Matrix Codes
Client / Reporting Information				Projec	Project Information	2				_		_				
Company Name / Branch: COG Operating LLC		2 10	Project Name/Number: MC SOUTHEAST BATTERY	umber: EAST BAT	TERY						_					W = Water S = Soil/Sed/Solid
Company Address: 2407 Pecos Ave, Artesia NM 88210	tesia NM 88210		Project Location:	ä									_			GW =Ground Water DW = Drinking Water P = Product
Email: dneet2@concho.com sthitchcock@concho.com cgray@concho.com; rhaskeli@concho.com	Phone No: 575-746-2010		Invoice To: (	COG Operating LLC Attn: Robert Mcneill 600 W. Illinois Ave.	rating LLC rt Mcneill nois Ave.											SW = Surface water SL = Sludge OW =Ocean/Sea Water
Project Contact: Dakota Neel		71	PO Number:	Midland TX, 79701	X, 79701							_				0 = 0il wi = wipe
Samplers's Name: Dakota Neel			C inclusion -							ded	ES	_	_			WW= Waste Water
			Collection	3			Number of	Number of preserved bottles	ottles	tend	IDE	_				A = Air
No. Field ID / Point of Collection	ollection	Sample Depth	Date	Time	# of # bottles	нсі	NaOH/Zn Acetate HNO3	H2SO4 NaOH NaHSO4	MEOH	TPH Ext	BTEX CHLORI					Field Comments
4	T1	Q	2/15/2018	9:00	s					×	×					
2	T1	4	2/15/2018	9:00	S				111	×	××					
3	T1	2	2/15/2018	9:00	S	11				×	××					
4	T2	0'	2/15/2018	9:00	S					×	××					
5	T2	P	2/15/2018	9:00	s					×	××		1			
	T2	2	2/15/2018	9:00	s					×	××		Temp	Temp: 3.2	<b>T</b>	
7	T3	Q	2/15/2018	9:00	s					×	××		CF:(0	CF:(0-6: -0.2°C)		10.11-0
8	T3	1.	2/15/2018	9:00	s					×	××		6)	(6-23: +0.2°C)	2°C)	
	Т3	2"	2/15/2018	9:00	s					×	x x		Corre	Corrected Temp: 3	no: 3	
10											_		-			1
Turnaround Time ( Business days)					Data D	eliverable	Data Deliverable Information			-		N	Notes:			
Same Day TAT	5 Day TAT			Lev	Level II Std QC		П	Level IV (F	Level IV (Full Data Pkg /raw data)	/raw da	ta)	5400	.10 de	IP 7	600 hol	64
Next Day EMERGENCY	7 Day TAT			Lev	Level III Std QC+ Forms	+ Forms	П	TRRP Level IV	el IV							
2 Day EMERGENCY	X Contract TAT			Lev	Level 3 (CLP Forms)	rms)	П	UST / RG -411	411			_				8 8:4
3 Day EMERGENCY				TRE	TRRP Checklist											
TAT Starts Day received by Lab, if received by 5:00 pm	b, if received by 5:0	0 pm										FED-E	FED-EX / UPS: Tracking #	# gn		-
Relinquished by Sampler:	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COUNER DELIVERY	Date Time:	DOCUMENTED	Received By:	By:	APLES CH	2-16-18	K-18 Relinquished By:	ed By:	ER DELIV	Date	Date Time: 12.N	~	By:	A	0 2/16
Relinquished by:		Date Time:		Received By:	By:	ł		Relinquished By:	ed By:		Date	Date Time:	Received By:	By:	C	0 9-00 mag
Relinquished by:     Date Time:     Received By:     Custody Seal #     Preserved where applicable     On Ice     Cooler Temp.     Thermo. Corr. Factor       5     5		Date Time:		Received By:	By:			Custody Seal #	bal #		Preserved	Preserved where applicable	able	On Ice	Cooler Temp.	5. Thermo. Corr. Factor

#### Received by OCD: 4/11/2023 11:13:57 AM

Page 27 of 29

#### Page 49 of 66

ABURATURIES e 1990

# CHAIN OF CUSTODY

Final 1.001

#### Received by OCD: 4/11/2023 11:13:57 AM

Relinquished by:	Relinquished by:	the for handhind by or	Delinquiched by Ca	TAT Starts D	3 Day EMERGENCY	2 Day EMERGENCY	Next Day EMERGENCY	Same Day TAT	Turnaround	10	Ø	œ	7	5	5	4	3	2		No.	Samplers's Name: Dakota Neel	Email: dneel2@concho.com shitchcock@concho.com cgray@concho.com; rhaskell@concho.com Project Contact: Dakota Neel	Company Address:	Company Name / Branch:	Client / Report		Dallas Texas (214-902-0300)	Setting the Standard since 1990 Stafford,Texas (281-240-4200)	C LAN
3     4       Relinquished by:     Date Time:       Received By:     Custody Seal #       Preserved where applicable     On Ice       Cooler Temp.     Thermo. Corr. Factor       Ito     Ito		N information	moler	TAT Starts Day received by Lab, if received by 5:00 pm	ENCY	ENCY	RGENCY		Turnaround Time ( Business days)					Т	т	T5	T4	Т	T4	Field ID / Point of Collection	1 Neel	m Ill@conche.com 1 Neel	2407 Pecos Ave. Artesia NM 88210	COG Operating LLC	ing		902-0300)	ard since 1990 81-240-4200)	
			SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY	o, if received by 5:0		X Contract TAT	7 Day TAT	5 Day TAT						T5	T5	5	4	T4	4	ection		Phone No: 575-746-2010	sia NM 88210						
Date Time	Date Time	2 14/19	Insta Time	00 pm										Ņ	11	Q.	2	4	0	Sample Depth									
		10'000	DOCUMENTE											2/15/2018	2/15/2018	2/15/2018	2/15/2018	2/15/2018	2/15/2018	Date		Invoice To: PO Number:	Project Location:	MC SOUTHEAST BATTERY			Midland, Texas (432-704-5251) www	San Antonio, Texas (210-509-3334)	
Received	Received	1 A	D BELOW EA		TRE	Lev	Lev	Lev						9:00	9:00	9:00	9:00	9:00	9:00	Time		COG Operating LLC Attn: Robert Mcneill 600 W. Illinois Ave. Midland TX, 79701	001	IEAST BAT	Projec		exas (432-7	o, Texas (2	(
By:	By:	a h	CH TIME SA		<b>TRRP Checklist</b>	Level 3 (CLP Forms)	Level III Std QC+ Forms	Level II Std QC	Data I					s	s	S	s	S	S	# of Matrix bottles		ating LLC rt Mcneill nois Ave. K, 79701		TERY	<b>Project Information</b>		04-5251) www.	210-509-33	Page 2 Of
		the	MPLES CHA		-	orms)	+ Forms		Data Deliverable Information											нсі					on		251) www.xenco.com	34)	e 2
_		10410	NGE POSSE						nformation											NaOH/Zn Acetate HNO3 00 H2SO4 00 NaOH 00 NaHSO4 00 MEOH 05 MEOH 05 MEO									
4 Custody S	Relinquis	2 And	SSION, INC			UST / RG -411	TRRP Level IV	Level IV		_										NaOH Preserved									2
eal #	hed By:	hid	UDING COL			-411	Vel IV	Level IV (Full Data Pkg																					
		h	JRIER DELIV					kg /raw data)		-				×	×	×	×	×	×	TPH Exte	nde	d					Xenco Quote #	Phoenio	
<sup>o</sup> reserved v	Date	2-16	ERY Date 1					ia)						××	××	××	××	××	××	BTEX	ES					Ana	ote #	, Arizona	
where appli	fime:	18 12	lime,	FED-				Stop		_											_		-			Analytical Information		<sup>3</sup> hoenix, Arizona (480-355-0900)	
cable	Rec	and pro	Rhe	EX / UPS:				SP C	Notes:	-	0	2	5		+											mation	Xenco Job #	(006	
On Ice	eived By:	In which	nived Rv.	FED-EX / UPS: Tracking #				17 if			Collected Lemps	lo co.	(6-23: +0.2°C)	1 emp. 0.9°C)	20									_	-				
Cool	2	t	1					56		-	citip:	emn.	0.2°C)	10.00	0	-											391		
er Temp.	0	0						600 m				N			IR					Fie							L L		
Thermo.	1	10	1	2				021/Eur			1				IR ID:R-8					Field Comments	A = Air	SW = Surfac SL = Sludge OW =Ocean/ WI = Wipe O = Oil	DW = Drinki P = Product	S = Soil/Sed/Solid	W = Wata	Matrix Codes			
Corr. Factor	9700	2/19										1	þ	ĩ		1				nts	A = Air	SW = Surface water SL = Sludge OW =Ocean/Sea Water WI = Wipe O = Oil	P = Product	ed/Solid		odes			

#### Page 50 of 66

Received by OCD: 4/11/2023 11:13:57 AM



#### **XENCO Laboratories**



Prelogin/Nonconformance Report- Sample Log-In

Client: COG Operating LLC Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 02/19/2018 09:08:34 AM Temperature Measuring device used : r8 Work Order #: 576847 Sample Receipt Checklist #1 \*Temperature of cooler(s)? 3 #2 \*Shipping container in good condition? Yes #3 \*Samples received on ice? Yes #1 \*Custody Seals intact on shipping container/ cooler? N1/A

#	4 "Custody Seals intact on shipping container/ cooler?	N/A
#	5 Custody Seals intact on sample bottles?	N/A
#	6*Custody Seals Signed and dated?	N/A
#	7 *Chain of Custody present?	Yes
#	8 Any missing/extra samples?	No
#	9 Chain of Custody signed when relinquished/ received?	Yes
#	10 Chain of Custody agrees with sample labels/matrix?	Yes
#	11 Container label(s) legible and intact?	Yes
#	12 Samples in proper container/ bottle?	Yes
#	13 Samples properly preserved?	Yes
#	14 Sample container(s) intact?	Yes
#	15 Sufficient sample amount for indicated test(s)?	Yes
#	16 All samples received within hold time?	Yes
#	17 Subcontract of sample(s)?	No
#	18 Water VOC samples have zero headspace?	N/A

#### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 02/19/2018

Comments

 Checklist completed by:
 Image: Checklist reviewed by:

 Checklist reviewed by:
 Margin Moath

 Katie Lowe
 Katie Lowe

Date: 02/19/2018



March 28, 2018

SHELDON HITCHCOCK COG OPERATING P. O. BOX 1630

ARTESIA, NM 88210

**RE: MC SOUTHEAST BATTERY** 

Enclosed are the results of analyses for samples received by the laboratory on 03/21/18 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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. Keine

Celey D. Keene Lab Director/Quality Manager

AH -4 3'

AH -4 4'

AH -4 5'



H800812-01

H800812-02

H800812-03

21-Mar-18 12:00

21-Mar-18 12:00

21-Mar-18 12:00

20-Mar-18 00:00

20-Mar-18 00:00

20-Mar-18 00:00

#### Analytical Results For:

ARTESIA NM, 88210 Project Manager: SHELDON HITCHCOCK Fax To: NONE

Soil

Soil

Soil

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210			Project Num Project Mana	ber: NO	ne given Ildon hit	GT BATTER	Y	2	Reported: 8-Mar-18 14	:17
				H -4 3' 812-01 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			90.7 %	72-	148	8032201	MS	22-Mar-18	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
DRO >C10-C28*	14.7		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
Surrogate: 1-Chlorooctane			71.9 %	41-	142	8032102	MS	22-Mar-18	8015B	
Surrogate: 1-Chlorooctadecane			74.2 %	37.6	-147	8032102	MS	22-Mar-18	8015B	
Soluble (DI Water Extraction)			Green Analy	vtical Lab	oratories					

10.0

175

#### **Cardinal Laboratories**

Chloride

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reprodued except in full with written approval of Cardinal Laboratories.

mg/kg wet

B803170

10

JDA

23-Mar-18

EPA300.0

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 55 of 66

#### Analytical Results For:

COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210			Project Num Project Mana	ber: NO	ne given Ildon hit	ot Batter Chcock	Y	2	Reported: 8-Mar-18 14	:17
				H -4 4' 812-02 (So	,iI)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			93.5 %	72-	148	8032201	MS	22-Mar-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
DRO >C10-C28*	374		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
EXT DRO >C28-C36	73.1		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
Surrogate: 1-Chlorooctane			84.9 %	41-	142	8032102	MS	22-Mar-18	8015B	
Surrogate: 1-Chlorooctadecane			111 %	37.6	-147	8032102	MS	22-Mar-18	8015B	
Soluble (DI Water Extraction)			Green Analy	vtical Lab	oratories					

#### **Cardinal Laboratories**

Chloride

\*=Accredited Analyte

EPA300.0

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reprodued except in full with written approval of Cardinal Laboratories.

mg/kg wet

50.0

B803170

50

JDA

23-Mar-18

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

1600

COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210			Project Nun Project Mana	nber: NO	ne given Eldon hit	GT BATTER	Y	2	Reported: 8-Mar-18 14:	17
				AH -4 5'	<b>,</b> :1)					
			1800	812-03 (So	)11)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			94.2 %	72-	148	8032201	MS	22-Mar-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
Surrogate: 1-Chlorooctane			79.7 %	41-	142	8032102	MS	22-Mar-18	8015B	
Surrogate: 1-Chlorooctadecane			81.5 %	37.6	-147	8032102	MS	22-Mar-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)	12.4		10.0	ma/ka wat	10	B803170	JDA	23-Mar-18	EPA300.0	
Chloride	13.4		10.0	mg/kg wet	10	B803170	JDA	23-IVIAT-18	EPA300.0	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitstoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based to reproduced except in full with written approval of Cardinal Loaratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210	Project: MC SOUTHEAST Project Number: NONE GIVEN Project Manager: SHELDON HITC Fax To: NONE	28-Mar-18 14:17	
--	--	-----------------	--

#### Volatile Organic Compounds by EPA Method 8021 - Quality Control

#### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 8032201 - Volatiles										
Blank (8032201-BLK1)				Prepared &	Analyzed:	22-Mar-18	3			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0928		mg/kg	0.100		92.8	72-148			
LCS (8032201-BS1)				Prepared &	Analyzed:	22-Mar-18	3			
Benzene	1.94	0.050	mg/kg	2.00		97.1	79.5-124			
Toluene	2.14	0.050	mg/kg	2.00		107	75.5-127			
Ethylbenzene	2.15	0.050	mg/kg	2.00		108	77.7-125			
Total Xylenes	6.63	0.150	mg/kg	6.00		111	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0914		mg/kg	0.100		91.4	72-148			
LCS Dup (8032201-BSD1)				Prepared &	Analyzed:	22-Mar-18	3			
Benzene	1.93	0.050	mg/kg	2.00		96.3	79.5-124	0.862	6.5	
Toluene	2.10	0.050	mg/kg	2.00		105	75.5-127	1.53	7.02	
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	77.7-125	0.164	7.83	
Total Xylenes	6.65	0.150	mg/kg	6.00		111	70.9-124	0.207	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0922		mg/kg	0.100		92.2	72-148			

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210	Project: MC SOUTHEAST BATTERY Project Number: NONE GIVEN Project Manager: SHELDON HITCHCOCK Fax To: NONE	Reported: 28-Mar-18 14:17
--	---	------------------------------

#### Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal	Laboratories
----------	--------------

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8032102 - General Prep - Organics										
Blank (8032102-BLK1)				Prepared: 2	21-Mar-18 A	Analyzed: 2	2-Mar-18			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	49.5		mg/kg	50.0		99.1	41-142			
Surrogate: 1-Chlorooctadecane	51.1		mg/kg	50.0		102	37.6-147			
LCS (8032102-BS1)				Prepared: 2	21-Mar-18 A	Analyzed: 2	2-Mar-18			
GRO C6-C10	197	10.0	mg/kg	200		98.4	76.5-133			
DRO >C10-C28	208	10.0	mg/kg	200		104	72.9-138			
Total TPH C6-C28	405	10.0	mg/kg	400		101	78-132			
Surrogate: 1-Chlorooctane	51.1		mg/kg	50.0		102	41-142			
Surrogate: 1-Chlorooctadecane	53.4		mg/kg	50.0		107	37.6-147			
LCS Dup (8032102-BSD1)				Prepared: 2	21-Mar-18 A	Analyzed: 2	2-Mar-18			
GRO C6-C10	195	10.0	mg/kg	200		97.3	76.5-133	1.10	20.6	
DRO >C10-C28	210	10.0	mg/kg	200		105	72.9-138	0.803	20.6	
Total TPH C6-C28	404	10.0	mg/kg	400		101	78-132	0.117	18	
Surrogate: 1-Chlorooctane	50.3		mg/kg	50.0		101	41-142			
Surrogate: 1-Chlorooctadecane	52.7		mg/kg	50.0		105	37.6-147			

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210	Project: MC SOUTHEAST BATTERY Project Number: NONE GIVEN Project Manager: SHELDON HITCHCOCK Fax To: NONE	Reported: 28-Mar-18 14:17
--	---	------------------------------

#### Soluble (DI Water Extraction) - Quality Control

#### **Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B803170 - General Prep - Wet Chem										
Blank (B803170-BLK1)				Prepared &	Analyzed:	23-Mar-18				
Chloride	ND	10.0	mg/kg wet							
LCS (B803170-BS1)				Prepared &	Analyzed:	23-Mar-18				
Chloride	234	10.0	mg/kg wet	250		93.6	85-115			
LCS Dup (B803170-BSD1)				Prepared &	Analyzed:	23-Mar-18				
Chloride	236	10.0	mg/kg wet	250		94.6	85-115	1.06	20	

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below $6^{\circ}\text{C}$

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

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 61 of 66

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(575) 393-2326 FAX (575) 393-2476			
Project Manager: Sheldon Hitchcock	K P.o. #:	ANALYSIS REQUEST	
Address: 2407 Pecos Avenue	Company: COG		
city: Artesia st	state: NM zip:88210 Attn: Robert McNeill		
Phone #:575-703-6475 Fax #:			
Project #: Pro	Project Owner: Concho city:		
Project Name: MC Southeast 1			
Project Location: Lea County	#		
Sampler Name: Churchopher Guy	Fax #:		
FOR LAB USE ONLY	MATRIX PRESERV.		
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	TIME TPH ExTE BEET CHLORIDE	
1 AH-4 3'	- / 3	1	
2 AH-4 41	- /		
3 47 4 5'			
PLEASE NOTE: Labily and Damages, Caldnal's liability and client's exch	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount pad by the client for the	unn paid by the client for the	
analyses. All claims including those for negligence and any other cause whi service. In no event shall Cardinal be liable for incidental or consequental d atiliates or successors arising out of or related to the performance of service	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed vorwed unless made in writing and received by Cardinal Whith 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, artificates or successors ansing out of or related to the performance of services hereunder by Cardinal which is to associate or the above stated reasons or otherwise.	ays after completion of the applicable root by elem. Its studied liarles, aled reasons or otherwise.	
Relinquished By: Relinquished By: Time: Time: Time: Time:	Time: Received By:	Phone Result:  Ves No Add'I Phone #: Fax Result: REMARKS:	
Delivered By: (Circle One) 3.98 Sampler - UPS - Bus - Other:	Sample Condition CHECKED BY: Cool Intact (Initials) Cool Intact (Initials) No No No 72- #75		
† Cardinal cannot accept verbal chang	es		

# **APPENDIX III**

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Page 63 of 66

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

1220 0. 5t. 1 fuileis Di., Suitu 10, 101 07505	Santa F	Fe, NM 87505						
<b>Release Notification and Corrective Action</b>								
		OPERATOR	Initial Report	Final Report				
Name of Company: COG Operating, LLC (C	Contact: Robert McNeill							
Address: 600 West Illinois Avenue, Midland	Telephone No.: 432-683-7443							
Facility Name: MC Southeast Battery		Facility Type: Tank Battery						
Surface Owner: BLM	Mineral Owner	: Federal	API No.:					

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	21	17S	32E					Lea

Latitude: 32.820527 Longitude: -103.765465 NAD83

#### NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release: 10bbls Oil & 180bbls PW	overed: 175bbls PW							
Source of Release: Heater Treater	Date and Hour of Occurrence:	Date and Ho	our of Discovery:						
	1/4/2018	1/4/2018 4:3	0am						
Was Immediate Notice Given?	If YES, To Whom?								
🛛 Yes 🗌 No 🗌 Not Required									
	Shelly Tucker-BLM								
By Whom? Rebecca Haskell	Date and Hour: 1/4/2018 12:34pm								
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.								
If a Watercourse was Impacted, Describe Fully.*									
Describe Cause of Problem and Remedial Action Taken.*									
A gasket on the heater treater failed resulting in the release of approxima	tely 10bbls of oil and 180bbls of prod	uced water. The	e gasket was replaced.						
Describe Area Affected and Cleanup Action Taken.*									
The majority of the fluid was contained within the lined facility. However there was overspray in the pasture measuring approximately 400' x 115'. A vacuum truck was dispatched to recover freestanding fluids. Concho will have the spill area evaluated for any possible impact from the release and we									
will present a remediation work plan to the NMOCD for approval prior to			t from the release and we						
I hereby certify that the information given above is true and complete to			nt to NMOCD rules and						
	notifications and perform corrective actions for releases which may endanger								
public health or the environment. The acceptance of a C-141 report by the									
should their operations have failed to adequately investigate and remedia									
or the environment. In addition, NMOCD acceptance of a C-141 report of	does not relieve the operator of respon	sibility for com	pliance with any other						
federal, state, or local laws and/or regulations.									
	<u>OIL CONSER</u>	VATION D	<u>IVISION</u>						
Signature: Sheldon Jutan									
Signature: Or Signature: Signature:	Approved by Environmental Speciali	ist:							
Printed Name: Sheldon L. Hitchcock									
Title: HSE Coordinator	Approval Date:	Expiration Dat	te:						
E-mail Address: slhitchcock@concho.com	Conditions of Approval:								
E-man Address. Sinitelicock@concho.com	Conditions of Approval.	4	Attached						
Date: 1/8/2018 Phone: 575-746-2010									

\* Attach Additional Sheets If Necessary

# **APPENDIX IV**

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Page 65 of 66

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

1220 0. St. Hulleis Di., Suitu Fe, 101 07505	Santa I	Fe, NM 87505							
<b>Release Notification and Corrective Action</b>									
		OPERATOR	Initial Report	Final Report					
Name of Company: COG Operating, LLC (C	Contact: Robert McNeill								
Address: 600 West Illinois Avenue, Midland TX 79701		Telephone No.: 432-683-7443							
Facility Name: MC Southeast Battery		Facility Type: Tank Battery							
Surface Owner: BLM	Mineral Owner	: Federal	API No.:						
	I O CHETC								

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	21	17S	32E					Lea

Latitude: 32.820527 Longitude: -103.765465 NAD83

#### NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release: 10bbls Oil & 180bbls PW	Volume Re 5bbls Oil &	covered: 2 175bbls PW				
Source of Release: Heater Treater	Date and Hour of Occurrence:Date and Hour of Discovery:1/4/20181/4/2018 4:30am						
Was Immediate Notice Given?	If YES, To Whom?						
🛛 Yes 🗌 No 🗌 Not Required	Oliva Yu-NMOCD						
	Shelly Tucker-BLM						
By Whom? Rebecca Haskell	Date and Hour: 1/4/2018 12:34pm						
Was a Watercourse Reached?	If YES, Volume Impacting the Wate	ercourse.					
🗌 Yes 🖾 No							
If a Watercourse was Impacted, Describe Fully.*							
Describe Cause of Problem and Remedial Action Taken.*							
A gasket on the heater treater failed resulting in the release of approximate	ely 10bbls of oil and 180bbls of produc	ced water. Th	ne gasket was replaced.				
Describe Area Affected and Cleanup Action Taken.*							
The majority of the fluid was contained within the lined facility. However there was overspray in the pasture measuring approximately 400' x 115'. A vacuum truck was dispatched to recover freestanding fluids. Remediation activities have been conducted in accordance with the NMOCD/BLM approved							
workplan.		1.1.					
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release n							
public health or the environment. The acceptance of a C-141 report by the							
should their operations have failed to adequately investigate and remediate							
or the environment. In addition, NMOCD acceptance of a C-141 report d							
federal, state, or local laws and/or regulations.							
	OIL CONSERV	ATION I	DIVISION				
Sabot Real	Approved by Environmental Specialist	t:					
Signature:	Buttan Hall						
Printed Name: Dakota Neel		η 1(*					
Title: HSE Coordinator	Approval Date: 5/3/2023	Expiration D	ate: N/A				
E-mail Address: dneel2@concho.com	Conditions of Approval:		Attached				
Date: 3/2/2019 Phone: 575-746-2010	none						

\* Attach Additional Sheets If Necessary

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

District IV 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

Operator:	OGRID:
Spur Energy Partners LLC	328947
9655 Katy Freeway	Action Number:
Houston, TX 77024	206282
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

#### CONDITIONS

Created By		Condition Date
bhall	None	5/3/2023

Page 66 of 66

Action 206282