Received by OCD: 11/22/2022 1:21:55 PM



[Sheldon L. Hitchcock] [HSE Coordinator]

April 15, 2019

Bradford Billings Oil Conservation Division 1220 S. St Francis Dr. #3 Santa Fe, NM 87505

Ryan Mann New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, NM 88240

Re: Closure Letter Man State #002H API #: 30-015-42937 RP#: 2RP-4667 Unit Letter L, Section 32, Township 18 S, Range 28 E Eddy County, New Mexico

Mr. Billings/Mr. Mann,

COG Operating, LLC (COG) is pleased to submit for your consideration the following closure report for the Man State #002H. This release occurred on March 17, 2018. Following the release, remediation of the impacted area was conducted in accordance with New Mexico Oil Conservation Division (NMOCD) and the New Mexico State Land Office (NMSLO) guidelines.

BACKGROUND

The Man State #002H release was located in Unit Letter L, Section 32, Township 18 South and Range 28 East in Eddy County, New Mexico. More specifically the latitude and longitude for this release are 32.702988874 North and -104.20547669 West.

On March 17, 2018, a sight glass failed resulting in the release of approximately twelve (12) barrels (bbls) of oil and six (6) bbls of produced water.

Remediation activities were conducted utilizing field data and laboratory analysis to guide the extent of the excavation. The analytical results from the confirmation soil sampling activities are summarized in the table below. A site diagram of the excavated area is presented in Appendix I.

GROUNDWATER AND SITE RANKING

According New Mexico Office of the State Engineer groundwater in the project vicinity is approximately one-hundred and forty-five (145) 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 zero (0) based on the following:

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

CONFIRMATION SOIL SAMPLING RESULTS

Man State #2H						
	L-32-185-28E					
Sample ID	Date	Chloride mg/Kg	Benzene mg/Kg	BTEX mg/Kg	TPH mg/Kg	
74.01	F /20 /2010	2.00	0.050		10.4	
T1-2'	5/30/2018	368	<0.050	<0.300	18.1	
T2-2.5'	5/30/2018	304	<0.050	<0.300	214	
T1/T2	5/30/2018	64	<0.050	<0.300	<10.0	
T-3 Surface	5/30/2018	96	<0.050	<0.300	137	
T4- Surface	5/30/2018	128	<0.050	<0.300	207	
T1-West	5/30/2018	96	<0.050	<0.300	27	
T1- North	7/2/2018	160	<0.050	<0.300	<10.0	
T1- South	5/30/2018	208	<0.050	<0.300	13	
T2- North	5/30/2018	112	<0.050	<0.300	<10.0	
T2-East	7/2/2018	160	<0.050	<0.300	<10.0	
T2-South	5/30/2018	112	<0.050	<0.300	<10.0	

April 15, 2019

REMEDIAL ACTIONS

- The impacted area in the vicinity of sample location T-1 was excavated to a depth of two (2) feet BGS.
- The impacted area in the vicinity of sample location T-2 was excavated to a depth of two and one-half (2.5) feet BGS.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- Confirmation soil samples were taken from the bottom and sidewalls of the excavation.
- Upon receipt of acceptable analytical results from the excavation was backfilled with clean "like" material and contoured to match the surrounding location.

April 15, 2019

CLOSURE REQUEST

COG Operating, LLC respectfully requests that the New Mexico Oil Conservation Division and the New Mexico State Land Office grant closure approval for the Man State #002H incident that occurred on March 17, 2018.

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

Sincerely,

Sheldon gittom

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: Final C-141 Appendix V: Analytical Reports and Chain-of-Custody Forms

APPENDIX I





Sample Points
Impacted Area
Overspray

Google Earth

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)	· ·	e 1=NW 2=NE 3 e smallest to lare	,	TM in meters)	(In fee	t)
	POD		• • • • • • • • • • • • • • • • • • • •				
POD Number	Sub- Code basin Cour	QQQ 1ty 64 16 4 S	Sec Tws Rng	х	Y Distance	Depth Dep Well Wate	th Water er Column
CP 00478 POD1	CP ED	0 1 1 4	05 19S 28E	575300 36170	36* 🌍 🛛 1646	312 14	15 167
RA 09588	RA ED	1 2	33 18S 28E	576976 36193	84* 🌍 2512	300	
CP 00361 POD1	CP ED	3 1 3	09 19S 28E	576094 36152	46* 🌍 🤅 3604	365 26	65 100
					Average Depth to	Water: 20)5 feet
					Minimum	Depth: 14	15 feet
					Maximum	Depth: 26	65 feet
Record Count: 3							
Basin/County Searcl	<u>h:</u>						
County: Eddy							
UTMNAD83 Radius S	Search (in meters):						
Easting (X): 5746	12	Northing	(Y): 3618532		Radius: 3800		

*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.

Page 8 of 35

APPENDIX III

1220 S. St. Francis Dr., Santa Fe, NM 87505

District IV

ARTESH DUSTRIC

District 1 1625 N. French Dr., Hobbs, NM 88240 District II	State of New Mexico Energy Minerals and Natural Resources	MAR 1 9 2018	Form C-141 Revised April 3, 2017
811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410	Oil Conservation Division	A EGEI Vepoto appr accordance	opriate District Office in we with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505 **Release Notification and Corrective Action**

				-	
NAB1807950988		OPERATO	R	Initial Report	Final Report
Name of Company: COG Operating LLC OGRI	D# 229137	Contact:	Robert McNeill		
Address: 600 West Illinois Avenue, Midland	ГХ 79701	Telephone No.	432-683-7443		
Facility Name: Man State 2H Battery		Facility Type:	Battery		
Surface Owner: State	Mineral Owner	: State		API No. 30-015-	42937

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	32	18S	28Ē	2,310	South	190	West	Eddy

Latitude 32.702988874 Longitude -104.20547669 NAD83

NATURE OF RELEASE

Type of Release:		Volume of Release:	Volume Recovered:
	Oil and Produced Water	12 bbl. Oil & 6 bbl. PW	10 bbl Oil & 4 bbl. PW
Source of Release:		Date and Hour of Occurrence:	Date and Hour of Discovery:
	ke and Gauge Cock Valve Malfunctioned	March 17, 2018 6:30am	March 17, 2018 6:30am
Was Immediate Notice		If YES, To Whom?	
	🗌 Yes 🛛 No 🖾 Not Required		
By Whom?	······	Date and Hour:	
Was a Watercourse Rea	ched?	If YES, Volume Impacting the Wa	tercourse.
	🗌 Yes 🖾 No		
If a Watercourse was In	pacted, Describe Fully.*		
	·Puere u, 2		
Describe Cause of Prob	lem and Remedial Action Taken.*		
The release was due to t	the sight glass breaking and the gauge cock value	malfunctioning Replaced the sight gl	ass and gauge cock.
	and Cleanup Action Taken.*	mununenoning. Replaced the orgin gr	
The release occurred in	the lined facility with overspray into the pasture.	A vacuum truck was dispatched to rem	nove all freestanding fluids. Concho will
	led to delineate any possible impact from the relea	ase and we will present a remediation	work plan to the NMOCD for approval
prior to any significant		· · · · · · · · · · · · · · · · · · ·	
	information given above is true and complete to t		
regulations all operators	are required to report and/or file certain release n	otifications and perform corrective ac	tions for releases which may endanger
public health or the env	ironment. The acceptance of a C-141 report by the	e NMOCD marked as "Final Report"	does not relieve the operator of hability
	have failed to adequately investigate and remediat addition, NMOCD acceptance of a C-141 report d		
federal, state, or local la		loes not reneve the operator of respon	sionity for compnance with any other
rederal, state, or rotar it		OIL CONSERV	VATION DIVISION
	T A A A	<u>OIE CONSER</u>	
Signature:	Delinn (secont	أهر فقدت	
	U.	Approved by Environmental'Special	for Dreaman se
Printed Name:	DeAnn Grant		
		3120/18	Expiration Date: NIA
Title:	HSE Administrative Assistant	Approval Date: 320113	Expiration Date: / / /
E-mail Address:	agrant@concho.com	Conditions of Approval:	
E-mail Address.	agramuyconcho.com	(0, 0)	Attached Do Lun
Date: March 19, 2018	Phone: 432-253-4513	SEP UT	UCHEU /KP-466/

* Attach Additional Sheets If Necessary

APPENDIX IV

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Longitude

Latitude	

Site Name	Site Type
Date Release Discovered	API# (if applicable)

(NAD 83 in decimal degrees to 5 decimal places)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Received by OCD: 11/22/2022 1:21:55 PM Form C-141 State of New Mexico

Page 6

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

<u>Closure Report Attachment Checklist</u> : Each of the following it	items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certaid may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the C	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete.
	Title:
Signature: Sheldon Jutan	Date:
email:	Telephone:
OCD Only	
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by: Ashley Maxwell	Date:
Printed Name:	Title:

APPENDIX V



July 06, 2018

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: MAN STATE #2

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 www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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 OPER DAKOTA N P. O. BOX ARTESIA N Fax To:	EEL 1630		
Received:	07/02/2018			Sampling Date:	07/02/2018
Reported:	07/06/2018			Sampling Type:	Soil
Project Name:	MAN STATE #2			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM				

Sample ID: T 1 - NORTH (H801813-01)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	Qualifie
Chloride	160	16.0	07/06/2018	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	Qualifie
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	79.1	% 41-142							
Surrogate: 1-Chlorooctadecane	84.1	% 37.6-14	-						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		COG OPER DAKOTA N P. O. BOX ARTESIA N Fax To:	EEL 1630		
Received:	07/02/2018			Sampling Date:	07/02/2018
Reported:	07/06/2018			Sampling Type:	Soil
Project Name:	MAN STATE #2			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM				

Sample ID: T 2 - EAST (H801813-02)

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	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	160	16.0	07/06/2018	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	84.0	% 41-142	,						
Surrogate: 1-Chlorooctadecane	87.2	% 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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(5/5) 393-2326 FAX (575) 393-2476	76				
Company Name:	COG Operating LLC		BILL TO			ANALYSIS REQUEST
Project Manager:	Dakota Neel		P.O. #:			
Address: 2407	2407 Pecos Avenue		Company: COG Ope	COG Operating LLC		
City: Artesia	State: NM	Zip 88210	Attn: Robert McNeill	IcNeill		
Phone #:	(575) 746-2010 Fax #:		Address: 600 W Illinois	Illinois		
Project #:	Project Owner:		City: Midland	nd		
Project Name:	MAN STATE HZ		: TX Zip	701		
Project Location:			Phone #: (432) 221-0388	8		
Sampler Name:	Dakota Neel		Fax #:		9	
FOR LAB USE ONLY		MATRIX		LING		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL	SLUDGE DTHER : ACID/BASE: CE / COOL DTHER :	⊐ m BTEX	TPH Chloride	
-	TI- NORTH	*	X	SIDOAN		
12	.T2 - ELST	×		\$:004m	K X	
LEASE NOTE: Liability and C nalyses. All claims including t	LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the based in contract or tort, shall be limited to the amount paid by the client for the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable applicable applicable and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable applica	claim arising whether based in con amed waived unless made in writing	ntract or tort, shall be limited to the amount p ng and received by Cardinal within 30 days a	aid by the client for the fter completion of the applicable	•	
ervice. In no event shall Cardi filiates or successors arising o	ervice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, infliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	ithout limitation, business interrupti dinal, regardless of whether such o	ions, loss of use, or loss of profits incurred by claim is based upon any of the above stated			
Relinquished By:	Date -2-18 Time: 15 Am	Received By:	1 Malle	ult:	□ Yes □ No □ Yes □ No 0.com	Add'l Phone #: Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other	Time: 4.50	HHSC Sample Condition Cool Intact Pres Pres No No	ndition CHECKED BY: ct (Initials) No P # X		Stop runni	Stop running Chlerides when <600 mg/kg

Received by OCD: 11/22/2022 1:21:55 PM

1051

Page 19 of 35



June 06, 2018

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: MAN STATE #2

Enclosed are the results of analyses for samples received by the laboratory on 05/31/18 11:30.

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 www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



		COG OPER DAKOTA N P. O. BOX ARTESIA N	EEL 1630		
		Fax To:	NONE		
Received:	05/31/2018			Sampling Date:	05/30/2018
Reported:	06/06/2018			Sampling Type:	Soil
Project Name:	MAN STATE #2			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM				

Sample ID: T1-2' (H801486-01)

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	06/04/2018	ND	2.17	108	2.00	0.751	
Toluene*	<0.050	0.050	06/04/2018	ND	2.16	108	2.00	0.514	
Ethylbenzene*	<0.050	0.050	06/04/2018	ND	2.12	106	2.00	0.363	
Total Xylenes*	<0.150	0.150	06/04/2018	ND	6.24	104	6.00	0.166	
Total BTEX	<0.300	0.300	06/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	368	16.0	06/04/2018	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	06/01/2018	ND	193	96.6	200	4.35	
DRO >C10-C28*	18.1	10.0	06/01/2018	ND	208	104	200	0.864	
EXT DRO >C28-C36	<10.0	10.0	06/01/2018	ND					
Surrogate: 1-Chlorooctane	88.5	% 41-142	,						
Surrogate: 1-Chlorooctadecane	83.5	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		COG OPER DAKOTA N P. O. BOX ARTESIA N Fax To:	EEL 1630		
Received:	05/31/2018			Sampling Date:	05/30/2018
Reported:	06/06/2018			Sampling Type:	Soil
Project Name:	MAN STATE #2			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM				

Sample ID: T2 - 2.5' (H801486-02)

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	06/04/2018	ND	2.17	108	2.00	0.751	
Toluene*	<0.050	0.050	06/04/2018	ND	2.16	108	2.00	0.514	
Ethylbenzene*	<0.050	0.050	06/04/2018	ND	2.12	106	2.00	0.363	
Total Xylenes*	<0.150	0.150	06/04/2018	ND	6.24	104	6.00	0.166	
Total BTEX	<0.300	0.300	06/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	304	16.0	06/04/2018	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	06/01/2018	ND	193	96.6	200	4.35	
DRO >C10-C28*	182	10.0	06/01/2018	ND	208	104	200	0.864	
EXT DRO >C28-C36	32.1	10.0	06/01/2018	ND					
Surrogate: 1-Chlorooctane	83.5	% 41-142							
Surrogate: 1-Chlorooctadecane	88.4	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		COG OPER DAKOTA N P. O. BOX ARTESIA N Fax To:	EEL 1630		
			HOHE		
Received:	05/31/2018			Sampling Date:	05/30/2018
Reported:	06/06/2018			Sampling Type:	Soil
Project Name:	MAN STATE #2			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM				

Sample ID: T1/T2 (H801486-03)

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	06/04/2018	ND	2.17	108	2.00	0.751	
Toluene*	<0.050	0.050	06/04/2018	ND	2.16	108	2.00	0.514	
Ethylbenzene*	<0.050	0.050	06/04/2018	ND	2.12	106	2.00	0.363	
Total Xylenes*	<0.150	0.150	06/04/2018	ND	6.24	104	6.00	0.166	
Total BTEX	<0.300	0.300	06/04/2018	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	64.0	16.0	06/04/2018	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	06/01/2018	ND	193	96.6	200	4.35	
DRO >C10-C28*	<10.0	10.0	06/01/2018	ND	208	104	200	0.864	
EXT DRO >C28-C36	<10.0	10.0	06/01/2018	ND					
Surrogate: 1-Chlorooctane	73.3	% 41-142	,						
Surrogate: 1-Chlorooctadecane	65.1	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		COG OPER DAKOTA N P. O. BOX ARTESIA N Fax To:	EEL 1630		
Received:	05/31/2018			Sampling Date:	05/30/2018
Reported:	06/06/2018			Sampling Type:	Soil
Project Name:	MAN STATE #2			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM				

Sample ID: T3 - SURFACE (H801486-04)

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	06/04/2018	ND	2.17	108	2.00	0.751	
Toluene*	<0.050	0.050	06/04/2018	ND	2.16	108	2.00	0.514	
Ethylbenzene*	<0.050	0.050	06/04/2018	ND	2.12	106	2.00	0.363	
Total Xylenes*	<0.150	0.150	06/04/2018	ND	6.24	104	6.00	0.166	
Total BTEX	<0.300	0.300	06/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	96.0	16.0	06/04/2018	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	06/01/2018	ND	193	96.6	200	4.35	
DRO >C10-C28*	99.0	10.0	06/01/2018	ND	208	104	200	0.864	
EXT DRO >C28-C36	38.8	10.0	06/01/2018	ND					
Surrogate: 1-Chlorooctane	77.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	77.4	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		COG OPER DAKOTA N P. O. BOX ARTESIA N Fax To:	EEL 1630		
Received:	05/31/2018			Sampling Date:	05/30/2018
Reported:	06/06/2018			Sampling Type:	Soil
Project Name:	MAN STATE #2			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM				

Sample ID: T4 - SURFACE (H801486-05)

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	06/04/2018	ND	2.17	108	2.00	0.751	
Toluene*	<0.050	0.050	06/04/2018	ND	2.16	108	2.00	0.514	
Ethylbenzene*	<0.050	0.050	06/04/2018	ND	2.12	106	2.00	0.363	
Total Xylenes*	<0.150	0.150	06/04/2018	ND	6.24	104	6.00	0.166	
Total BTEX	<0.300	0.300	06/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	06/04/2018	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	06/01/2018	ND	193	96.6	200	4.35	
DRO >C10-C28*	179	10.0	06/01/2018	ND	208	104	200	0.864	
EXT DRO >C28-C36	28.2	10.0	06/01/2018	ND					
Surrogate: 1-Chlorooctane	77.5	% 41-142	2						
Surrogate: 1-Chlorooctadecane	80.7	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		COG OPER DAKOTA N P. O. BOX ARTESIA N Fax To:	EEL 1630		
Received:	05/31/2018			Sampling Date:	05/30/2018
Reported:	06/06/2018			Sampling Type:	Soil
Project Name:	MAN STATE #2			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM				

Sample ID: T 1 - WEST (H801486-06)

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	06/04/2018	ND	2.17	108	2.00	0.751	
Toluene*	<0.050	0.050	06/04/2018	ND	2.16	108	2.00	0.514	
Ethylbenzene*	<0.050	0.050	06/04/2018	ND	2.12	106	2.00	0.363	
Total Xylenes*	<0.150	0.150	06/04/2018	ND	6.24	104	6.00	0.166	
Total BTEX	<0.300	0.300	06/04/2018	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	96.0	16.0	06/04/2018	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	06/01/2018	ND	193	96.6	200	4.35	
DRO >C10-C28*	26.9	10.0	06/01/2018	ND	208	104	200	0.864	
EXT DRO >C28-C36	<10.0	10.0	06/01/2018	ND					
Surrogate: 1-Chlorooctane	74.8	% 41-142	2						
Surrogate: 1-Chlorooctadecane	70.7	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		COG OPER DAKOTA N P. O. BOX ARTESIA N Fax To:	EEL 1630		
Received:	05/31/2018			Sampling Date:	05/30/2018
Reported:	06/06/2018			Sampling Type:	Soil
Project Name:	MAN STATE #2			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM				

Sample ID: T 1 - NORTH (H801486-07)

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	06/04/2018	ND	2.17	108	2.00	0.751	
Toluene*	<0.050	0.050	06/04/2018	ND	2.16	108	2.00	0.514	
Ethylbenzene*	<0.050	0.050	06/04/2018	ND	2.12	106	2.00	0.363	
Total Xylenes*	<0.150	0.150	06/04/2018	ND	6.24	104	6.00	0.166	
Total BTEX	<0.300	0.300	06/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	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	800	16.0	06/04/2018	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	06/01/2018	ND	193	96.6	200	4.35	
DRO >C10-C28*	198	10.0	06/01/2018	ND	208	104	200	0.864	
EXT DRO >C28-C36	27.9	10.0	06/01/2018	ND					
Surrogate: 1-Chlorooctane	83.9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	92.8	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		COG OPER DAKOTA N P. O. BOX ARTESIA N Fax To:	EEL 1630		
Received:	05/31/2018			Sampling Date:	05/30/2018
Reported:	06/06/2018			Sampling Type:	Soil
Project Name:	MAN STATE #2			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM				

Sample ID: T 1 - SOUTH (H801486-08)

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	06/04/2018	ND	2.17	108	2.00	0.751	
Toluene*	<0.050	0.050	06/04/2018	ND	2.16	108	2.00	0.514	
Ethylbenzene*	<0.050	0.050	06/04/2018	ND	2.12	106	2.00	0.363	
Total Xylenes*	<0.150	0.150	06/04/2018	ND	6.24	104	6.00	0.166	
Total BTEX	<0.300	0.300	06/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 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	208	16.0	06/04/2018	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	06/01/2018	ND	193	96.6	200	4.35	
DRO >C10-C28*	13.0	10.0	06/01/2018	ND	208	104	200	0.864	
EXT DRO >C28-C36	<10.0	10.0	06/01/2018	ND					
Surrogate: 1-Chlorooctane	81.7	% 41-142	,						
Surrogate: 1-Chlorooctadecane	77.4	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		COG OPER DAKOTA N P. O. BOX ARTESIA N Fax To:	EEL 1630		
Received:	05/31/2018			Sampling Date:	05/30/2018
Reported:	06/06/2018			Sampling Type:	Soil
Project Name:	MAN STATE #2			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM				

Sample ID: T 2 - NORTH (H801486-09)

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	06/04/2018	ND	2.17	108	2.00	0.751	
Toluene*	<0.050	0.050	06/04/2018	ND	2.16	108	2.00	0.514	
Ethylbenzene*	<0.050	0.050	06/04/2018	ND	2.12	106	2.00	0.363	
Total Xylenes*	<0.150	0.150	06/04/2018	ND	6.24	104	6.00	0.166	
Total BTEX	<0.300	0.300	06/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	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	112	16.0	06/04/2018	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	06/01/2018	ND	196	98.0	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/01/2018	ND	211	105	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	06/01/2018	ND					
Surrogate: 1-Chlorooctane	84.6 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	76.4 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		COG OPER DAKOTA N P. O. BOX ARTESIA N Fax To:	EEL 1630		
Received:	05/31/2018			Sampling Date:	05/30/2018
Reported:	06/06/2018			Sampling Type:	Soil
Project Name:	MAN STATE #2			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM				

Sample ID: T 2 - EAST (H801486-10)

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	06/04/2018	ND	2.17	108	2.00	0.751	
Toluene*	<0.050	0.050	06/04/2018	ND	2.16	108	2.00	0.514	
Ethylbenzene*	<0.050	0.050	06/04/2018	ND	2.12	106	2.00	0.363	
Total Xylenes*	<0.150	0.150	06/04/2018	ND	6.24	104	6.00	0.166	
Total BTEX	<0.300	0.300	06/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	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	800	16.0	06/04/2018	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	06/01/2018	ND	196	98.0	200	0.929	
DRO >C10-C28*	224	10.0	06/01/2018	ND	211	105	200	1.20	
EXT DRO >C28-C36	49.2	10.0	06/01/2018	ND					
Surrogate: 1-Chlorooctane	84.2	% 41-142							
Surrogate: 1-Chlorooctadecane	92.9	% 37.6-14	_						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		COG OPER DAKOTA N P. O. BOX ARTESIA N Fax To:	EEL 1630		
Received:	05/31/2018			Sampling Date:	05/30/2018
Reported:	06/06/2018			Sampling Type:	Soil
Project Name:	MAN STATE #2			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM				

Sample ID: T 1 - SOUTH (H801486-11)

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	06/04/2018	ND	2.17	108	2.00	0.751	
Toluene*	<0.050	0.050	06/04/2018	ND	2.16	108	2.00	0.514	
Ethylbenzene*	<0.050	0.050	06/04/2018	ND	2.12	106	2.00	0.363	
Total Xylenes*	<0.150	0.150	06/04/2018	ND	6.24	104	6.00	0.166	
Total BTEX	<0.300	0.300	06/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	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	112	16.0	06/04/2018	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	06/01/2018	ND	196	98.0	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/01/2018	ND	211	105	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	06/01/2018	ND					
Surrogate: 1-Chlorooctane	80.7	% 41-142	2						
Surrogate: 1-Chlorooctadecane									

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 33 of 35 2 þ 4 Page aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1022

101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-2476	476																									
Company Name:	COG Operating LLC									81	BILL TO					1000	ANALYSIS	P	S		ñ	č	REQUEST	7			_
Project Manager:	Dakota Neel						P.O.	0.#:										-		- 1	_		\neg				
Address: 2208	2208 West Main						8	mp	Company:		COG Operating	ing LLC															
City: Artesia	State: NM	Zip	9.	88	88210	12502	Attn:	ä			Robert McNeill	eill															
Phone #:	(575) 748-6930 Fax #:						Ac	Address:	SS		600 W Illinois	nois															
Project #:	Project Owner:	а					City:	2			Midland																
Project Name: N	Man State #2						3S	State:	¥		Zip: 79701																
Project Location:							P	Phone #:		(43)	(432) 221-0388																
Sampler Name:	Dakota Neel						Fa	Fax #:																			
FOR LAB USE ONLY					MATRIX	×		R	PRESERV	R	SAMPLING	G											_				
	а	- A	0.005																								
Lab I.D.	Sample I.D.	(G)RAB OR (C # CONTAINER	GROUNDWAT	WASTEWATE	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	ТРН	Chloride												
/	T1- 2'	_			×	-			×		5/30/18	3:00 PM	X	×	×			_			_		-				
N	T2- 2.5'		-		×	_			×		5/30/18	3:00 PM	×	×	×			_									
Ś	T1/T2				×	_			×		5/30/18	3:00 PM	×	×	×			_									
10	T3-Surface				×				×		5/30/18	3:00 PM	×	×	×			_									
S	T4-Surface	-	-		×				×		5/30/18	3:00 PM	×	×	×			_									
6	T1-WEST				×	-			×		5/30/18	3:00 PM	×	×	×												
2	T1-NORTH				×	-			×		5/30/18	3:00 PM	×	×	×			_									
0	T1-SOUTH		0 <u>0</u> 0		×	-			×		5/30/18	3:00 PM	×	×	×			_			_						
2	T2-NORTH				×				×		5/30/18	3:00 PM	×	×	×												
10	T2-EAST	_			×				×		5/30/18	3:00 PM	×	×	×			_			_						
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Carc affiliates or successors arising	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remety for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be demed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profis incurred by client, its subsidiaries, affiliates or successoits arising out of or related to the performance of services hereunder by Cardinal, regardess of whether subt cliams is based upon any of the above stated reasons or otherwise.	iny claim ari deemed wa j without lin Cardinal, reg	ising whe lived unl litation, t jardless	ether ba less ma busines of whe	ased in de in w s intern ther suc	contrac riting ar uptions, th claim	t or tor nd rece loss o n is bas	t, shall ived b fuse, ed up	l be lin y Card or loss on any	inal wi of pro	the amount paid t thin 30 days after c fits incurred by clie above stated reas	by the client for th completion of the ent, its subsidiaries	e applicable s,	U													1
Relinquished By:	Date: 531-15	Rece	Received By:	By:					2	1	11	Phone Result: Fax Result:	. ult			No	Add	Add'l Phone #:	¥ ene	#							
Relinquished By:		Received Ry-	The second secon	R	C.	Co	0	12	14		A	REMARKS: dneel2@concho.com	oncho	D.com	I C	a de	200	-	2								
	Date:										1																
Delivered Ry-	(Circle One) Time:	F		60m	200				2	25	504																
1	indiciones la de	1		Cool Intact	n la	Intact			-	(Initials)	(Initials)																
Sampler - UPS -	Bus - Other: avriated	1. 150		□J	Yes Yes	Yes	0 0	V	50	À	12																
FURM-UUD K 2.0	2.0					ľ						3															-

藏

Received by OCD: 11/22/2022 1:21:55 PM

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

Released to Imaging: 11/22/2022 1:24:44 PM

Received by OCD: 11/22/2022 1:21:55 PM

Relinquished By: Delivered By: Sampler - UPS -	analyses. All claims including service. In no event shall Carr affiliates or successors arising Relinquished By:	EASE NOTE: Liability an	11	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	Project #:	Phone #:	City: Artesia	Address: 220	Project Manager:	Company Name:			Page 15 of 15
Value: Time; telinquished By: Time; Delivered By: Circle One) Time; Date; Sampler - UPS - Bus - Other: A	analyses. All claims including these for negligence and any other cause whatsoever shall be deemed waived unless made in writing and reviewed by Cardinal within 30 days after complication of the applicable service. In no event shall Cardinal be lable for incidential or consequential damages, including including including including without any user the applicable affiliates or successors arising out of or related to the performance of services herunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherways. Reference by Cardinal be above stated reasons or otherways. Reference by Cardinal be above stated reasons or otherways. Reference by Cardinal be above stated reasons or otherways. Reference by Cardinal be above stated reasons or otherways after complete the performance of services herunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherways. Reference by Cardinal be above stated reasons or otherways after complete the performance of services herunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherways after complete the performance of services herunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherways after complete the set of the se	d Damages, Cardinal's liability and	T2-SOUTH	Sample I.D.		Dakota Neel		Man State #2		(575) 748-6930		2208 West Main	r: Dakota Neel		- 5	abora	
Time: Date: 1.2 C	er cause whatsoever shall be de sequental damages, including w ce of services hereunder by Car	lient's exclusive remedy for any	UTH						Project Owner:	Fax #:	State: NM			TC	1 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	atories	
Received	emed wa /ithout lim dinal, reg	claim arti		(G)RAB OR (C)OM	».						N				40 76		
	amed waived unless m thout limitation, busine tinal, regardless of wh Received Bv:	sing whet		GROUNDWATER							Zip						
ample ample I No	ss made i siness int f whether	her based	×	WASTEWATER SOIL	MA						88210						
I By: Sample Condition Cool Intact Cool Intact Cool Intact	n writing a erruptions such clai	in contra		OIL	MATRIX						10						
lo es	nd receiv , loss of u n is base			OTHER :		Fax #:	Ph	Sta	City:	Ad	Attn:	ŝ	P.O.				
H CH	ed by Ca use, or los d upon ar		×	ACID/BASE: ICE / COOL	PRESERV.	× #:	Phone #:	State: TX	š	Address:		Company:). #:				
IECKED I	rdinal with ss of prof ny of the a			OTHER :	ERV.		(43)							81			
S IN R	allo annount, part hin 30 days after its incurred by cli above stated rea		5/30/18	DATE	SAMPLING		(432) 221-0388	Zip: 79701	Midland	600 W Illinois	Robert McNeill	COG Operating LLC		BILL TO			
Fax Result REMARKS dneel2@;	completion of the appli ent, its subsidiaries, sons or otherwise.		3:00 PM	TIME	NG			-		inois	Veill	ating LLC				CHAIN	
t: □ Yes : concho.com	applicab s,		×	BTEX												ģ	
0.com	⊐ ≲		×	ТРН												2	
S NO			×	Chloride												I-OF-CUSTODY AND ANALYSIS REQUEST	
														Þ		1 YO	
Add'l Fax #:														ANALYSIS		ND	
×#												_		SISA		AN	
													- 1			AL	
														REQUEST		SIS	
														S		RE	
																QU	
																EST	
	1												-	- 1		1.	

.

2052

٠

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:
COG OPERATING LLC	229137
	Action Number:
Midland, TX 79701	160930
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)
CONDITIONS	

Created By Condition Condition Date 11/22/2022 amaxwell None

Page 35 of 35

.

Action 160930