

May 7, 2014

Oil Conservation Division District 2 – Artesia 811 S. First St. Artesia, NM 88210



Re:

Myox 32 State #001H

30-015-41641

Sec. 32, T25S-R28E Eddy County, NM

Mr. Mike Bratcher,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 Initial report dated 3/27/14.

Background

The release was due to a valve being left open at the SWD 101 which was tied to an open-ended line. The valve at the SWD was closed and transition valves were installed on all open-ended lines. The area impacted measured approximately 1-2' wide x 850' long. The initial release consisted of 30 barrels of produced water with 0 barrels recovered. The initial cleanup was excavated down to approximately 12-18" and was hauled to an approved NMOCD facility for disposal.

Groundwater

Based on the New Mexico Office of the State Engineer website, the release area would be classified at a site ranking of Zero (~100').

Soil Assessment and Analytical Results

Delineation samples were taken along the impacted area labeled as S1, S2, S3, S4, S5, S6, S7, S8, and S9 on the attached Site Diagram. Background samples were also taken outside of the impacted area, labeled as BG 1 and BG 2 on the attached Site Diagram. Attached for your consideration is a copy of a Line Graph showing the correlation between background samples and delineation samples, a Sample Summary Table, Analytical Results, and a copy of the NRCS Soil Survey for the area.

Sample results show TPH and BTEX levels to be non-detect with elevated chloride concentrations above background for S1, S2, S3, S4, S5, S7, and S9 at a depth of 2'. S7

NMOCD May 7, 2014 Page 2

shows elevated levels down to a depth of 4' with 6' just slightly above background which poses no threats to root development and groundwater.

Work Plan

COG proposes that S1, S2, S3, S4, S5, and S9 be excavated to a depth of 2', S7 to a depth of 4', and with no further excavation for S6 and S8. All impacted material excavated will be hauled and disposed at a NMOCD approved facility. Backfill of the excavation would consist of caliche with a 1' top soil cover and the addition of soil erosion controls. S6 and S8 would be backfilled with topsoil due to the areas initial excavation of approximately 12-18" in depth.

If there are no objections or further stipulations, COG Operating LLC would like to begin the remediation process based on approval of this work plan. Please feel free to contact my with any questions or concerns at (575) 748-6933

Sincerely,

Lupe Carrasco

Environmental Coordinator

Enclosed:

Site Diagram

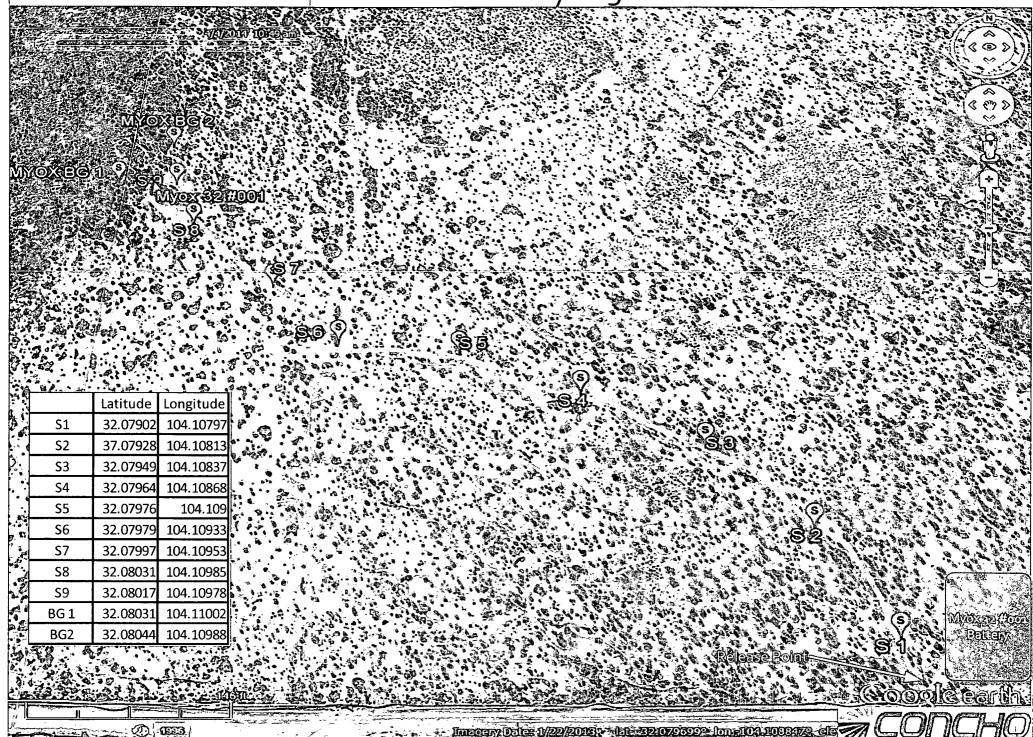
Line Graph

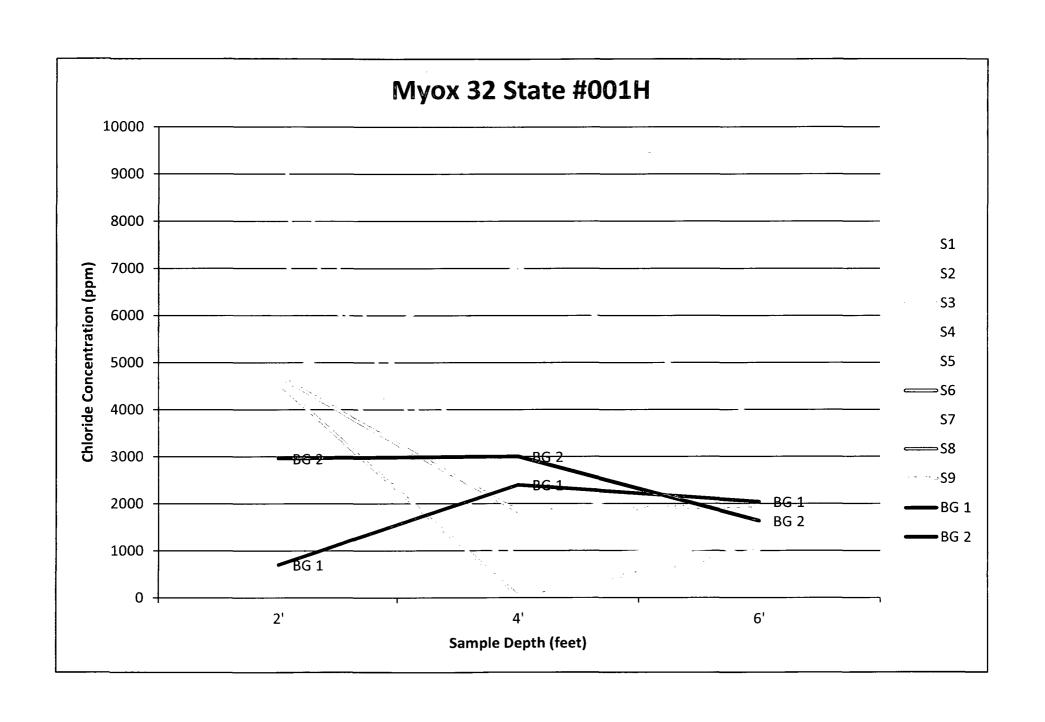
Sample Summary Table

Analytical Results NRCS Soil Survey

C-141 Initial

Myox 32 State #001H





Myox 32 State #001H

Site Ranking: Zero

Depth to GW per SEO: ~100'

pehru to das her	JLO. 100				
S 1	DRO	GRO	TPH	BTEX	Cl-
2'	13.1	ND	ND	ND	7200
4'					2600
6'					784
S2 ·	DRO	GRO	TPH	BTEX	Cl-
2'	ND	ND	ND	ND	9330
4'					176
6'					192
S3	DRO	GRO	TPH	BTEX	Cl-
2'	ND	ND	ND	ND	4560
4'					48
6'					1020
S4	DRO	GRO	TPH	BTEX	Cl-
2'	ND	ND	ND	ND	8400
4'					192
6'					80
S5	DRO	GRO	TPH	BTEX	Cl-
2'	ND	ND	ND	ND	5680
4'					848
6'					1100
S6	DRO	GRO	TPH	BTEX	Cl-
2'	ND	ND	ND	ND	32
S 7	DRO	GRO	TPH	BTEX	Cl-
2'	ND	ND	ND	ND	4720
4'					7040
6'					3760
S8	DRO	GRO	TPH	BTEX	Cl-
2'	ND	ND	ND	ND	1360
S9	DRO	GRO	TPH	BTEX	Cl-
2'	ND	ND	ND	ND	4720
4'					1840
6'					1960
Background #1	DRO	GRO	TPH	BTEX	Cl-
2'					704
4'					2400
6'	25178 DIE 6 W				2040
Background #2	DRO	GRO	TPH	BTEX	Cl-
2'					2960
4'					3000
6'					1630
1	' was excava	ted during i	nitial exca	vation.	

	Latitude	Longitude
S1	32.07902	104.10797
S 2	37.07928	104.10813
S 3	32.07949	104.10837
S4	32.07964	104.10868
S 5	32.07976	104.109
S6	32.07979	104.10933
S 7	32.07997	104.10953
S8	32.08031	104.10985
S9	32.08017	104.10978
BG 1	32.08031	104.11002
BG2	32.08044	104.10988



April 10, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: MYOX 32 #001

Enclosed are the results of analyses for samples received by the laboratory on 04/04/14 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

04/04/2014

Reported:

04/10/2014 MYOX 32 #001

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

04/04/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S3 2' (H401034-03)

BTEX 8021B	mg/kg			d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2014	ND	2.50	125	2.00	1.27	
Toluene*	<0.050	0.050	04/08/2014	ND	2.33	116	2.00	1.56	
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.22	111	2.00	1.44	
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.37	106	6.00	1.34	
Total BTEX	<0.300	0.300	04/08/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	117 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	04/09/2014	ND	400	100	400	3.92	
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	04/08/2014	ND	196	98.1	200	1.61	
DRO >C10-C28	<10.0	10.0	04/08/2014	ND	211	105	200	2.34	
Surrogate: 1-Chlorooctane	88.2	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	82.5	% 63.6-15	4						

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*=Accredited Analyte

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Celeg L'Keine



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

04/04/2014

Reported: Project Name: 04/10/2014 MYOX 32 #001

Project Number: Project Location:

NONE GIVEN

77.9 %

63.6-154

NOT GIVEN

Sampling Date:

04/04/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S4 2' (H401034-04)

BTEX 8021B	X 8021B mg/kg			d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2014	ND	2.50	125	2.00	1.27	
Toluene*	<0.050	0.050	04/09/2014	ND	2.33	116	2.00	1.56	
Ethylbenzene*	<0.050	0.050	04/09/2014	ND	2.22	111	2.00	1.44	
Total Xylenes*	<0.150	0.150	04/09/2014	ND	6.37	106	6.00	1.34	
Total BTEX	<0.300	0.300	04/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	04/09/2014	ND	400	100	400	3.92	
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	04/08/2014	ND	196	98.1	200	1.61	
DRO >C10-C28	<10.0	10.0	04/08/2014	ND	211	105	200	2.34	
Surrogate: 1-Chlorooctane	85.0	% 65.2-14	0						

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Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celent Kune



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

04/04/2014

Reported: Project Name: 04/10/2014 MYOX 32 #001 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

04/04/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

Sample ID: S5 2' (H401034-05)

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	04/09/2014	ND	2.50	125	2.00	1.27	
Toluene*	<0.050	0.050	04/09/2014	ND	2.33	116	2.00	1.56	
Ethylbenzene*	<0.050	0.050	04/09/2014	ND	2.22	111	2.00	. 1.44	
Total Xylenes*	<0.150	0.150	04/09/2014	ND	6.37	106	6.00	1.34	
Total BTEX	<0.300	0.300	04/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	119%	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	04/09/2014	ND	400	100	400	3.92	
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	04/08/2014	ND	196	98.1	200	1.61	
DRO >C10-C28	<10.0	10.0	04/08/2014	ND	211	105	200	2.34	
Surrogate: 1-Chlorooctane	96.7 9	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	92.4 9	% 63.6-15	4						

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Celeg & Kune



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

04/04/2014

Reported:

04/10/2014

Project Name: Project Number: MYOX 32 #001 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

04/04/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S6 2' (H401034-06)

BTEX 80218	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	04/09/2014	ND	2.50	125	2.00	1.27	
Toluene*	<0.050	0.050	04/09/2014	ND	2.33	116	2.00	1.56	
Ethylbenzene*	<0.050	0.050	04/09/2014	ND	2.22	111	2.00	1.44	
Total Xylenes*	< 0.150	0.150	04/09/2014	ND	6.37	106	6.00	1.34	
Total BTEX	<0.300	0.300	04/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	117 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/10/2014	ND	416	104	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	04/08/2014	ND	196	98.1	200	1.61	
DRO >C10-C28	<10.0	10.0	04/08/2014	ND	211	105	200	2.34	
Surrogate: 1-Chlorooctane	93.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	88.7	% 63.6-15	4						

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Celegi Keine



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

04/04/2014

Sampling Date:

04/04/2014

Reported:

04/10/2014

Sampling Type:

Soil

Project Name:

MYOX 32 #001

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S7 2' (H401034-07)

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	04/09/2014	ND	2.50	125	2.00	1.27	
Toluene*	< 0.050	0.050	04/09/2014	ND	2.33	116	2.00	1.56	
Ethylbenzene*	<0.050	0.050	04/09/2014	ND	2.22	111	2.00	1.44	
Total Xylenes*	< 0.150	0.150	04/09/2014	ND	6.37	106	6.00	1.34	
Total BTEX	<0.300	0.300	04/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	117 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	04/10/2014	ND	416	104	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	04/08/2014	ND	196	98.1	200	1.61	
DRO >C10-C28	<10.0	10.0	04/08/2014	ND	211	105	200	2.34	
Surrogate: 1-Chlorooctane	99.5	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	94.3	% 63.6-15	:4						

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Celeg Di Kune



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

04/04/2014

04/10/2014

Reported: Project Name:

MYOX 32 #001

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

04/04/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S9 2' (H401034-09)

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	04/09/2014	ND	2.19	109	2.00 .	4.47	
Toluene*	<0.050	0.050	04/09/2014	ND	2.09	105	2,00	3.09	
Ethylbenzene*	<0.050	0.050	04/09/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	<0.150	0.150	04/09/2014	ND	5.81	96.8	6.00	3.75	
Total BTEX	<0.300	0.300	04/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	120	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	04/10/2014	ND	416	104	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	04/08/2014	ND	196	98.1	200	1.61	
DRO >C10-C28	<10.0	10.0	04/08/2014	ND	211	105	200	2.34	

Surrogate: 1-Chlorooctane

107 %

65.2-140

Surrogate: 1-Chlorooctadecane

102 %

63.6-154

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Celegt Keine



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 SM4500CI-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

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Celeg & Kune



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (675) 393-2326 FAX (575) 393-2476

Company Name							12		BI	LL	70		Ě				P	NAI	YSIS	R	EQU	EST		2/20/00/20/20/20/20/20/20/20/20/20/20/20	
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city: Art	State: NM	Zip:	88	212	>	7	Attn	:	·				l		ľ										
,	18-6933 Fax#:					1	Add	ress	;								1						ŀ	1	
Project #:	Project Owner	;				(City:	:									-								
Project Name:	Musy 32 #001				**********	5	State	a:		Zip:							1								
Project Location						F	ho	ne#	:						ŀ								Ì.	1	
Sampler Name:	A. C. Siddle College					F	ax	#:		***************************************			ŀ			N									1
FOR LAB USE ONLY			T,	MA	TRIX		P	RES	ERV.	S	AMPLI	NG			1	W							ŀ		1 1
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Sampler - UPS	ampier - UPS - Bus - Other: 2.82 Gool							intact (lottle la)																	



May 02, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: MYOX 32 #001

Enclosed are the results of analyses for samples received by the laboratory on 04/25/14 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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. Keene

Lab Director/Quality Manager



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

04/25/2014

Reported:

05/02/2014

Project Name: Project Number: MYOX 32 #001 NONE GIVEN

Project Location:

Analyte

Analyte

Analyte

Analyte

NOT GIVEN

Sampling Date:

04/23/2014

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By: Jodi Henson

Sample ID: S1 - 4' (H401259-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

......

2600

Result Reporting Limit

16.0

Reporting Limit

Analyzed 04/30/2014

Analyzed

Analyzed

Analyzed

04/30/2014

Method Blank ND BS % Recovery

y True Value QC

400

400

RPD

0.00

Qualifier

Sample ID: S1 - 6' (H401259-02)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

alyzed By: AP

BS

400

% Recovery

100

True Value QC RPD

Qualifier

Chloride

Chloride

Result

16.0 04/30/2014

Method Blank ND

400

100

0.00

Qualifier

Sample ID: S2 - 4' (H401259-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

naiyzca by

Method Blank

BS %

% Recovery True Val

DDI

Qualifier

Chloride

Result

Result

192

Reporting Limit 16.0

Reporting Limit

16.0

04/30/2014

.

ND

100

True Value QC 400 RPD 0.00 Qua

Chloride

Sample ID: S2 - 6' (H401259-04)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Allalyzeu by: /

Method Blank

ND

BS 400

400

% Recovery

100

True Value QC

RPD 0.00 Qualifier

Cardinal Laboratories

*=Accredited Analyte

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

Celeg & Keens

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 7



COG OPERATING **LUPE CARRASCO** P. O. BOX 1630 ARTESIA NM, 88210 NONE

Fax To:

Received:

04/25/2014

Reported: Project Name: 05/02/2014 MYOX 32 #001

Project Number:

NONE GIVEN

Project Location:

Analyte

Analyte

Analyte

Analyte

Analyte

NOT GIVEN

Result

48.0

Sampling Date:

04/23/2014

Sampling Type:

BS

400

BS

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S3 - 4' (H401259-05)

Chloride, SM4500CI-B

mg/kg

Reporting Limit

16.0

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: AP

Analyzed

04/30/2014

Analyzed

Analyzed

Analyzed

04/30/2014

Method Blank ND

% Recovery

100

% Recovery

100

True Value QC 400

RPD 0.00

Qualifier

Chloride

Sample ID: S3 - 6' (H401259-06)

Chloride, SM4500CI-B

Result _ _Reporting Limit

Analyzed By: AP

True Value OC

400

Chloride

1020

04/30/2014 16.0

Method Blank ND

400

RPD 0.00 Qualifier

Sample ID: S4 - 4' (H401259-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Method Blank

% Recovery

True Value QC

RPD

Qualifier

Chloride

Result 192

Result

80.0

Result

848

16.0 04/30/2014 ND

BS 400

100

400

0.00

Sample ID: S4 - 6' (H401259-08)

'Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

True Value QC

RPD

Qualifier

Chloride

Chloride, SM4500Cl-B

mg/kg

Method Blank

ND

400

BS

100

% Recovery

400

0.00

Sample ID: S5 - 4' (H401259-09)

Analyzed

04/30/2014

Analyzed By: AP

ND

400

Chloride

Method Blank BS % Recovery 100

True Value QC 400

RPD 0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses, All claims, including those for negligence and including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

Celeg & Kreene



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 NONE

Fax To:

Received:

04/25/2014

Sampling Date:

04/23/2014

Reported:

05/02/2014

Sampling Type:

BS

Soil

Project Name:

MYOX 32 #001

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

Analyte

NOT GIVEN

Sample ID: S5 - 6' (H401259-10)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyzed By: AP

% Recovery

True Value QC

RPD

0.00

Chloride

Result 1100

Result

7040

Result

3760

Reporting Limit 16.0

Analyzed 04/30/2014 Method Blank ND

100

Qualifier

Chloride

Chloride

Chloride

Chloride

400

400

Sample ID: S7 - 4' (H401259-11)

Chloride, SM4500CI-B Analyte

mg/kg

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed

04/30/2014

Method Blank ND

BS

400

% Recovery True Value QC

100

0.00

Qualifier

Sample ID: S7 - 6' (H401259-12)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte

Analyzed

04/30/2014

Method Blank ND

BS % Recovery True Value QC

400

RPD

Qualifier

Analyte

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

400

100

400

0.00

Sample ID: S9 - 4' (H401259-13)

Result

1840

Result

1960

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 04/30/2014

BS 400 % Recovery

True Value OC

RPD

Qualifier

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

ND

100

400

True Value QC

400

0.00

RPD

0.00

Sample ID: S9 - 6' (H401259-14)

Analyzed

04/30/2014

Method Blank

ND

BS

400

% Recovery

100

Qualifier

Cardinal Laboratories

*=Accredited Analyte

any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

Celecy & Kreene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories

*=Accredited Analyte

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	: COG Operating LLC						BI	LL TO						ANA	LYSI	S RE	QUE	ST			
Project Manage	r: Lupe Carrasco				Ρ.	O. #:														-	
Address: 220	8 West Main				Co	mpa	ny:	COG Ope	rating LLC		ĺ					l					
City: Artesia	State: NM		Zip	88210	At	tn:		Robert M	cNeill												
Phone #:	(575) 748-6940 Fax #:				Ac	dres	s:	600 W	Illinois							1					
Project #:	Project Owner	:			Ci	ty:		Midla	nd								1				
Project Name:	Mycx 32 State#1				St	ate:	τx	Zip: 797	'01	_	İ										
Project Location	•				Ph	one	#: (43	2) 221-038	8							,					
Sampler Name:	Lupe Carrasco				Fa	x #:				┛							ł				
FOR LAB USE ONLY				MATRIX		PRE	SERV	SAMP	LING	-											
Lab I.D. H401259	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	OTHER:	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME	втех	ТРН	Chloride									
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PLEASE NOTE: Littings and commages, currors is isolary and circuit so rule
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed watered unless made in writing and received by Cardinal within 30 days after completion of the applicable
service. In no overst shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, as subsidiaries,
affiliates or successors against any of our claim to the proformance of services becoming the profits but to proformance of services.

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	9/23/19 /1- 1. H	Fax Result: ☐ Yes ☐ No Add'l Fax #:
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Delivered By: (Circle One)	Sample Condition CHECKED B	<u> </u>
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

#54



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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	State: NM Fax #: Project Owner: C. C. T.	State: NM Zij Fax #: Project Owner: C. T.C. #1 CONTAINERS #	State: NM Zip Fax #: Project Owner: # CONTAINERS GROUNDWATER	State: NM Zip 88210 Fax #: Project Owner: GROUNDWATER WASTEWATER Soll OIL SLUDGE	State: NM Zip 88210 Att Fax #: Ad Project Owner: Cit State MATRIX Ph Fax Noil SOIL P.O. #: Compa State: NM Zip 88210 Attn: Fax #: Project Owner: City: State: Phone Fax #: Phone Fax #: OIII SOII SITUDGE STORES: PROPOSE:	P.O. #: Company: State: NM Zip 88210 Attn: Fax #: Project Owner: City: State: TX Phone #: (4) Fax #: Project Owner: Oil: State: TX Phone #: (4) Fax #: PRESEN MATRIX PRESEN ACID/BASE: OILE (COO) ICE (COO) ACID/BASE: State: NM Zip 88210 Attn: Fax #: Project Owner: City: State: TX Z Phone #: (432) Fax #: PRESERV. Address: Proper de la containe de l	P.O. #: Company: COG Opera State: NM	P.O. #: Company: COG Operating LLC	P.O. #: Company: COG Operating LLC State: NM	P.O. #: Company: COG Operating LLC	P.O. #: Company: COG Operating LLC State: NM	P.O. #: Company: COG Operating LLC Attn: Robert McNeill Fax #: Address: 600 W Illinois City: Midland State: TX Zip: 79701 Phone #: (432) 221-0388 Fax #: MATRIX PRESERV SAMPLING MATRIX PRESERV SAMPLING 1.00 1.01 1.02 1.03 1.03 1.04 1.05	P.O. #: Company: COG Operating LLC	P.O. #: Company: COG Operating LLC State: NM Zip 88210 Attn: Robert McNeill Address: 600 W Illinois Gity: Midland State: TX Zip: 79701 Phone #: (432) 221-0388 Fax #: PRESERV SAMPLING Fax #: PRESERV SAMPLING PRESERV SAMPLING Fax #: PRESERV SAMPLING	P.O. #: Company: COG Operating LLC	P.O. #: Company: COG Operating LLC State: NM	P.O. #: Company: COG Operating LLC State: NM	P.O. #: Company: COG Operating LLC	P.O. #: Company: COG Operating LLC		

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Relinquished By: Relinquished By:	Time: Received By: Time: Received By: Time: Time:	Phone Result: ☐ Yes ☐ No Add'I Phone #: Fax Result: ☐ Yes ☐ No Add'I Fax #: REMARKS: <u>GCarrasco@concno.com</u>
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition CHECKED BY: Cool Intact (Indials) 13.70	

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476





April 11, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: MYOX 32 #001

Enclosed are the results of analyses for samples received by the laboratory on 04/04/14 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is 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.

Celeg & Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Company Name:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

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

Project Manager: Lupy Carrasco					P	P.O. #:									1.									
Address: 7	208 W. Main		Z,				c	Company:									1	1						
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Phone #: 748-6933 Fax#:					_ A	Address:												1						
Project #: Project Owner:					C	ity:			-															
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Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER SOIL	OIL.	SLUDGE OTHER:	ACID/BASE:	ICE / COOL	отнек:	DATE	TIME	Chlorid			- Andre de Carlos and restrict accessormance and a second								
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BILL 70



May 02, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: MYOX 32 #001

Enclosed are the results of analyses for samples received by the laboratory on 04/25/14 16:25.

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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.

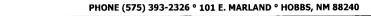
Celeg D. Keens

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager





COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

04/25/2014

Reported:

05/02/2014

Project Name: Project Number: MYOX 32 #001 NONE GIVEN

Project Location:

Analyte

Analyte

Analyte

NOT GIVEN

Result

2400

Sampling Date:

) Date: 04/23/2014) Type: Soil

Sampling Type:

Sampling Condition:

Sample Received By:

** (See Notes)

Jodi Henson

Sample ID: BG 1-4' (H401258-01)

Chloride, SM4500CI-B

mg/kg

Reporting Limit

16.0

Reporting Limit

Reporting Limit

16.0

Analyzed By: AP

Analyzed

04/30/2014

Analyzed

Method Blank

BS % Recovery

400

BS

400

True Value QC 400 RPD

0.00

0.00

Qualifier

Sample ID: BG 1- 6' (H401258-02)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Method Blank

% Recovery

100

True Value QC

RPD (

Chloride

Chloride

Chloride

Result

16.0 04/30/2014

ND

100

400

Qualifier

Sample ID: BG 2-4' (H401258-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyzed

04/30/2014

Method Blank

ND

BS

400

% Recovery True Value QC

OC RPD

Qualifier

Sample ID: BG 2- 6' (H401258-04)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte Chloride

Result

Result

3000

Reporting Limit

Analyzed 04/30/2014

Method Blank

BS 400 % Recovery

100

True Value QC 400

400

RPD 0.00

0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keine



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-8 does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keine

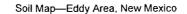


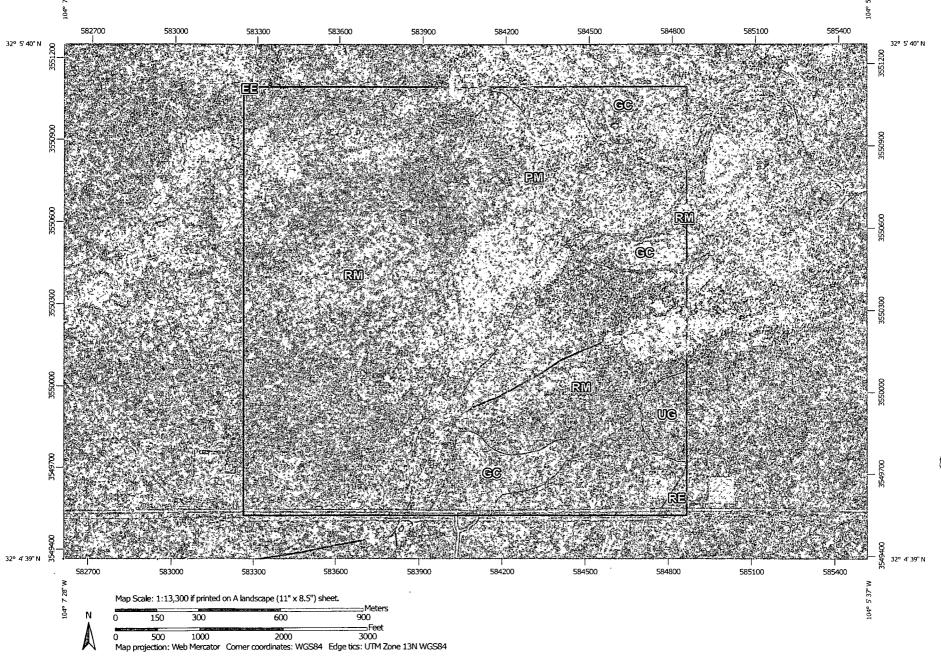
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: COG Operating LL	AX (5/5) 393-24/6		F10000	1400000	555 T		111				4 3 1 4		<u> </u>	I	<u> </u>		
						LL TO	ANALYSIS REQUEST										
Project Manager: Lupe Carrasco			P.O. #:				4			}	l		1		}		1
Address: 2208 West Main					Company: COG Operating LLC				ł	İ	ŀ	ļ	1				} }
City: Artesia	State: NM Zip 88.	210	Att	tn:		Robert McNeill		ļ			}	ł					
Phone #: (575) 748-6940	Fax #:		Ad	dres	s:	600 W Illinois	_	İ			}	1				!	
Project #:	Project Owner:		Cit	y:		Midland	_	ł				ļ	i			Ì	
Project Location: Myox 32 Star	te #1		Sta	ate:	TX _	Zip: 79701	_	ł		1	ł]		' }	
Project Location:			Ph	one	#: (43	2) 221-0388					l		ţ			1	1 1
Sampler Name: Lupe Carrasco			Fa	x #:							İ		ļ				1
FOR LAB USE ONLY	M	TRIX		PRE	SERV	SAMPLING	7	l				i	ŀ			- 1	
Lab I.D. Sample I H4D1258 1 861-9' 2 861-6' 3 862-9' 4 862-6'	GG)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER	OIL	OTHER:	ACID/BASE:	ICE / COOL	DATE TIME	BTEX	ТРН	FF FA Chlorido								
		11-				<u> </u>				ļ		ļ <u>.</u>					
PLEASE NOTE: Liabitay and Damages. Cardinol's liabitay and clianalyses. All claims including those for negligence and any other service, in no event shall Cardinal be liable for incidental or conseafflates or successors arising out of or related to the performance Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other:	cause whatsoever shall be deemed walved unters med exquential damages, including without limitation, business of services hersunder by Cardinal, regardless of wheth parties of the partie	in writing an nterruptions, er such claim	d recei foss of a is base	i use, or ed upor	Cardinat of parameters of para	rithin 30 days after completion of the office incurred by client, its subsidiar a above stated reasons or otherwise Phone Re Fax Result	he applicab nes, se. Sult: It:	□ Ye □ Ye □ Ye arrasi	s D	No	Add'l	Phone Fax #:	#:				

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476





MAP LEGEND

Area of Interest (AOI) Area of Interest (AOI) Soils Soil Map Unit Polygons Soil Map Unit Lines Soil Map Unit Points 30 **Special Point Features** Blowout (9) Borrow Pit 践 Clay Spot Closed Depression \Diamond Gravel Pit Gravelly Spot ٠, Landfill Lava Flow ٨ Marsh or swamp Mine or Quarry 0 Miscellaneous Water Perennial Water Rock Outcrop Saline Spot Sandy Spot Severely Eroded Spot Sinkhole Slide or Slip

Sodic Spot

GEND	ŀ
8	Spoil Area
٥	Stony Spot
Ø	Very Stony Spot
€ h	Wet Spot
Δ	Other
,e=-	Special Line Features
Water Fea	itures
~	Streams and Canals
Transport	ation
+	Rails
	Interstate Highways
care of	US Routes
اسم پريکلمونو د مورستان سال	Major Roads
15 Carlo	Local Roads
Backgrou	nd
<u> </u>	Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 10, Dec 17, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 4, 2011—Mar 20, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

	Éddy Area, New	Mexico (NM614),	
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
EE	Ector extremely rocky loam, 9 to 25 percent slopes	0.3	0.0%
GC	Gypsum land-Cottonwood complex, 0 to 3 percent slopes	52.3	8.4%
PM	Pima silt loam, 0 to 1 percent slopes	125.4	20.1%
RE	Reagan-Upton association, 0 to 9 percent slopes	2.3	0.4%
RM	Reeves-Reagan loams, 0 to 3 percent slopes	433.3	69.5%
UG	Upton gravelly loam, 0 to 9 percent slopes	10.3	1.7%
Totals for Area of Interest		623.9	100.0%

Eddy Area, New Mexico

GC—Gypsum land-Cottonwood complex, 0 to 3 percent slopes

Map Unit Setting

Elevation: 3,000 to 5,000 feet

Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 220 days

Map Unit Composition

Gypsum land: 60 percent

Cottonwood and similar soils: 30 percent

Description of Gypsum Land

Setting

Landform: Plains, hills, ridges

Landform position (two-dimensional): Backslope, footslope,

shoulder, toeslope

Landform position (three-dimensional): Side slope, crest, nose slope,

head slope

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 8s

Hydrologic Soil Group: C

Description of Cottonwood

Setting

Landform: Hills, ridges

Landform position (two-dimensional): Backslope, footslope,

shoulder, toeslope

Landform position (three-dimensional): Crest, nose slope, side slope,

head slope

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 3 to 12 inches to paralithic bedrock

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None



Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Very low (about 1.2 inches)

Interpretive groups

Farmland classification: Not prime farmland Land capability (nonirrigated): 6s Hydrologic Soil Group: C Ecological site: Gyp Upland (R042XC006NM)

Typical profile

0 to 8 inches: Loam 8 to 60 inches: Bedrock

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 10, Dec 17, 2013

Eddy Area, New Mexico

RM—Reeves-Reagan loams, 0 to 3 percent slopes

Map Unit Setting

Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 200 to 220 days

Map Unit Composition

Reeves and similar soils: 50 percent Reagan and similar soils: 35 percent

Description of Reeves

Setting

Landform: Ridges, plains, hills

Landform position (two-dimensional): Backslope, footslope,

shoulder, toeslope

Landform position (three-dimensional): Side slope, crest, nose slope,

head slope

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 25 percent

Gypsum, maximum content: 80 percent

Maximum salinity: Nonsaline to slightly saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water capacity: Low (about 4.3 inches)

Interpretive groups

Farmland classification: Not prime farmland Land capability classification (irrigated): 3s

Land capability (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: Loamy (R042XC007NM)

Typical profile

0 to 8 inches: Loam 8 to 32 inches: Clay loam

32 to 60 inches: Gypsiferous material



Description of Reagan

Setting

Landform: Fan remnants, alluvial fans Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Alluvium and/or eolian deposits

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 50 percent

Maximum salinity: Nonsaline to slightly saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 15.0

Available water capacity: Moderate (about 8.2 inches)

Interpretive groups

Farmland classification: Not prime farmland Land capability classification (irrigated): 2e

Land capability (nonirrigated): 6e

Hydrologic Soil Group: B

Ecological site: Loamy (R042XC007NM)

Typical profile

0 to 8 inches: Loam 8 to 30 inches: Loam 30 to 82 inches: Clay loam

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 10, Dec 17, 2013



District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 100 Rio Brazos Road, Aztec, NM 87410 rict IV 20 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico | RECEIVED
Energy Minerals and Natural Resources

Form C-141 Revised October 10, 2003

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

MAR 2 7 2014

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action									
NHW 1409041462 OPERATOR Initial Report I Final Report									
Name of Company COG OPERATING LLC 22513									
Address 600 West Illinois Avenue, Midland, TX 79701 Facility Name Myox 32 State #001H	Telephone No. 432-230-0077 Facility Type Flowline								
Surface Owner State Mineral Owner	er Lease No. (API#) 30-015-41641								
	ON OF RELEASE								
O 32S 25	orth/South Line Feet from the East/West Line County Eddy								
32 253 28E Latitude 32 04.729 Longitude 104 06.475									
NATURE OF RELEASE									
Type of Release Produced water	Volume of Release Volume Recovered 22bbls Obbis								
Source of Release	Date and Hour of Occurrence Date and Hour of Discovery								
Polyline Was Immediate Notice Given?	03-12-2014 03-12-2014 4:00pm If YES, To Whom?								
☐ Yes 🛛 No 🖾 Not Requir									
By Whom?	Date and Hour								
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.								
a Watercourse was Impacted, Describe Fully.*									
Describe Cause of Problem and Remedial Action Taken.*									
A valve was left open at the SWD 101 to an open-ended line. Closed the	he valve the SWD and placed a transition valves on all open-ended lines.								
Describe Area Affected and Cleanup Action Taken.*	` .								
Initially 30bbls of produced water were released. We were unable to recover any of produced water. All free fluids have been recovered. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.									
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.									
	OIL CONSERVATION DIVISION								
Signature: 12 day	110								
Printed Name: Robert Grubbs Jr.	Approved by District Supervisor:								
Title: Scnior Environmental Coordinator	Approval Date: 5-31-14 Expiration Date: NA								
E-mail Address: rgrubbs@concho.com	Conditions of Approval:								
Date: 03-27-2014 Phone: 432-661-6601 tach Additional Sheets If Necessary	Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 5-1-14								