Additional

Information

Notice and Water Analysis

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD

Sent: Thursday, April 25, 2019 11:00 AM **To:** 'joel@lowryenvironmental.com'

Subject: LilyStream Water Solutions, LLC Lucas SWD Well No. 1

Joel:

Your application for the LilyStream Water Solutions, LLC Lucas SWD Well No. 1 was received April 24, 2019. However, your proof of mailing does not definitively show that the affected parties were mailed.

You show that the affected parties were mailed an application, but there is no verification in terms of tracking number that they were actually mailed the application.

Also, the green cards do not list the names of the affected parties.

You must provide definitive proof that shows the affected parties received notification.

Also, you must send an application to the BLM

As a result, your application is suspended.

Mike

Michael McMillan 1220 South St. Francis Santa Fe, New Mexico 505-476-3448 Michael.mcmillan@state.nm.us

McMillan, Michael, EMNRD

From:

Joel Lowry <joel@lowryenvironmental.com>

Sent:

Monday, May 20, 2019 5:29 AM

To:

McMillan, Michael, EMNRD

Subject:

[EXT] LilyStream Water Solutions - Lucas SWD #1, Lucas SWD #2, Lucas SWD #3, Bounds SWD #1 and Bounds SWD #3 - Proof of Notice + Applicable Laboratory

Analysis

Attachments:

LilyStream - Lucas SWD #3.pdf; LilyStream - Bounds SWD #1.pdf; LilyStream - Bounds

SWD #3.pdf; LilyStream - Lucas SWD #1.pdf; LilyStream - Lucas SWD #2.pdf

Mr. McMillan,

Please find attached Proof of Notice Documentation along with Laboratory Analytical Documentation for the C-108 applications that were submitted over the last several weeks. I apologize for having not included the certified mail numbers on the original submissions.

Respectfully,

Joel Lowry

Environmental Professional

LOWRY environmental

PO Box 896 Lovington, NM 88260 Direct 432-466-4450 (4cAs swiff)

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XIV. PROOF OF NOTICE

Surface Owner:

Berry and Janice Lucas, husband and

P.O. Box 96 White City, NM 88268 7017 0660 0000 2489 3812

Leasehold Operators and/or unleased Mineral Owners within a One-Mile Radius:

EOG M Resources, Inc.

105 S. 4th St. Artesia, NM 88210 7017 2620 0001 0352 0697

EOG Y Resources, Inc.

105 S 4th St. Artesia, NM 88210 7018 3090 0002 1929 6791

EOG A Resources, Inc.

105 S. 4th St. Artesia, NM 88210 7017 2620 0001 0352 0680

Oxy Y-1 Company

P.O. Box 27570 Houston, TX 77227 7017 2620 0001 0352 0673

COG Operating LLC

600 W. Illinois Ave Midland, TX 79701 7017 0660 0000 2489 3799

JKM Energy, LLC

26 E. Compress Road Artesia, NM 88210 7017 2620 0001 0666

Cimarex Energy Co.

600 N. Marienfeld Street, Suite 600 Midland, TX 79701 7017 0660 0000 2489 3881 Cimarex Energy Co. of Colorado

600 N. Marienfeld Street, Suite 600 Midland, TX 79701

7017 0660 0000 2489 3805

Tap Rock Operating, LLC

602 Park Point Drive Suite 200 Golden, CO 80401 7017 0660 0000 2489 3867

Concho Oil & Gas LLC

600 W. Illinois Ave Midland, TX 79701 7017 0660 0000 2489 3874

Hanagan, Robert W

223 West Wall #301 Midland, TX 79702 7017 0660 0000 2489 3898

French L R Jr

P.O. Box 11327 Midland, TX 79701 7017 0660 0000 2489 3850

Cabal Energy Corp

415 W. Wall St STE 1700 Midland, TX 79701 7017 0660 0000 2489 3836

XTO Holdings LLC

810 Houston St Fort Worth, TX 76102 7017 0660 0000 2489 3843

XIV. PROOF OF NOTICE

Regulatory Agency:

NMOCD - Santa Fe 1220 S. St. Francis Dr. Santa Fe, NM 87505 NMOCD - District 2 811 S. First Artesia, NM 88210 7017 0660 0000 2489 3829



April 15, 2019

JOEL LOWRY

LOWRY ENVIROMENTAL & ASSOCIATES

PO BOX 296

LOVINGTON, NM 88260

RE: LUCAS SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/08/19 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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.qov/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 D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

LOWRY ENVIROMENTAL & ASSOCIATES JOEL LOWRY PO BOX 296 LOVINGTON NM, 88260

Fax To:

Received:

04/08/2019

Reported: Project Name:

04/15/2019 LUCAS SWD

Project Number: Project Location: NONE GIVEN EDDY CO NM

Sampling Date:

04/08/2019 Water

Sampling Type: Sampling Condition: Sample Received By:

Cool & Intact

Tamara Oldaker

Sample ID: 2101 (H901273-01)

mg,	/L	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
44.0	4.00	04/11/2019	ND	104	104	100	3.92	
mg	/L	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2010	5.00	04/15/2019	ND	506	96.0	527	2.08	
	44.0 mg, Result	44.0 4.00 mg/L Result Reporting Limit	44.0 4.00 04/11/2019 mg/L Analyze Result Reporting Limit Analyzed	44.0 4.00 04/11/2019 ND mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank	44.0 4.00 04/11/2019 ND 104 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS	44.0 4.00 04/11/2019 ND 104 104 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery	44.0 4.00 04/11/2019 ND 104 104 100 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC	44.0 4.00 04/11/2019 ND 104 104 100 3.92 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD

Sample ID: 0201 (H901273-02)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	36.0	4.00	04/11/2019	ND	104	104	100	3.92	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2360	5.00	04/15/2019	ND	506	96.0	527	2.08	

Sample ID: 2201 (H901273-03)

Chloride, SM4500CI-I3	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	252	4.00	04/11/2019	ND	104	104	100	3.92	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	4650	5.00	04/15/2019	ND	506	96.0	527	2.08	

Cardinal Laboratories

*=Accredited Analyte

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Celay I treena

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

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Celeg & treene -



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	L DISTU CIVITO							25.25		1	3][**************************************					ANA	LYS	IS R	REQU	EST			
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City: Louis	State: NV	\ Zip	o: 8	on	40			Att	tn:																
	-466-4460 Fax#:							Ad	idre	ss:					٠										
Project#: N/		er:						Cit	ty:																
Project Name:	Lucas SWD								ate:			Zip:													
Project Location	n: Fdd Co							Ph	опе	#:															
Sampler Name:	Juel Lowing		Aumonia					Fa	x #:	-				1											
FOR LAB USE ONLY		Τ.	Т		M	ATR	X				SAMPL	NG	1												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER;	ACID/BASE:	ICE / COOL	OTHER;	DATE	TIME	703	(worlde										
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Relinquished By	ing out of or related to the performance of services hereunder by: Date:				By:	er suc	h claim	is bas	sed upo	on any	of the	above stated re	Phone Re	sult:	☐ Ye		No		Phon						
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April 26, 2019

JOEL LOWRY
LOWRY ENVIROMENTAL & ASSOCIATES
PO BOX 296
LOVINGTON, NM 88260

RE: LUCAS RANCH

Enclosed are the results of analyses for samples received by the laboratory on 04/18/19 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

LOWRY ENVIROMENTAL & ASSOCIATES JOEL LOWRY PO BOX 296 LOVINGTON NM, 88260 Fax To:

Received: Reported: 04/18/2019 04/26/2019

Reported: 04/26/2019
Project Name: LUCAS RANCH
Project Number: NONE GIVEN
Project Location: EDDY CO NM

Sampling Date: Sampling Type:

Sampling Condition:

Sample Received By:

04/16/2019 Water Cool & Intact Jodi Henson

Sample ID: LUCAS HOUSE (H901418-01)

Chloride, SM4500CI-B

mg/L

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	28.0	4.00	04/22/2019	ND	104	104	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1520	5.00	04/24/2019	ND	558	106	527	18.3	

Sample ID: LUCAS #1-1 (H901418-02)

mg,	/L	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
28.0	4.00	04/22/2019	ND	104	104	100	0.00	
mg/L		Analyze	d By: AC		-			
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2280	5.00	04/24/2019	ND	558	106	527	18.3	
	Result 28.0 mg	28.0 4.00 mg/L Result Reporting Limit	Result Reporting Limit Analyzed 28.0 4.00 04/22/2019 mg/L Analyze Result Reporting Limit Analyzed	Result Reporting Limit Analyzed Method Blank 28.0 4.00 04/22/2019 ND mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank	Result Reporting Limit Analyzed Method Blank BS 28.0 4.00 04/22/2019 ND 104 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS	Result Reporting Limit Analyzed Method Blank BS % Recovery 28.0 4.00 04/22/2019 ND 104 104 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 28.0 4.00 04/22/2019 ND 104 104 100 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 28.0 4.00 04/22/2019 ND 104 104 100 0.00 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD

Sample ID: LUCAS #2-1 (H901418-03)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	84.0	4.00	04/22/2019	ND	104	104	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2700	5.00	04/24/2019	ND	558	106	527	18.3	

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*=Accredited Analyte

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Celey D. Keine



ND

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories *=Accredited Analyte

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Celeg Z. Kuna -



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:								Fi.		E	3//	LTO						ANALYSIS	REQU	UEST			
Project Manager	: Joel Lowry							P.(O. #:														
Address: PO	Box 896							Co	mpa	any:	L	owry Env											
City: Lovi	ington State:	Zip):	#				Att	tn:	joel	Low	ry											
Phone #: 432-	466-4450 Fax #:							Ad	dres	55: F	POB	3cx 896											
Project #:	Project Owne	r:						Cil	y:														
Project Name:	Lucas Ranch							St	ate:		2	Zip:											
Project Location								Ph	one	#:								1 1					
Sampler Name:	Joel Lowry							Fa	x #:														
FOR LAB USE ONLY		1.	Г		M	ATRI	X		PRI	ESER	W.	SAMPL	ING	1									
Lab I.D. H901418	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	ТРН	BTEX 8021	TPS						
1	Lucas Home	6	-	1			T			A		4/10/14	11:50	1			X						
2	Lucas #1-1	1	1							1		1	4:20	X			X						
3	Lucas #1-1 Lucas #2-1	1	1	7						4		1	4:45	1			X						
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Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 0.40

FORM-OUGR ZO

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