Initial

Application

Part I

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

APR 24 2019 PM02:48

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
4/24/2019		SWD	pMAM19115 42778

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Geological & Engineering Bureau –
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: LilyStream Water Solutions, LLC **OGRID Number:** 373500
Well Name: Bounds SWD #1 **API:** 30-015-xxxxx
Pool: Proposed: SWD; Devonian-Silurian **Pool Code:** 97869

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

1) **TYPE OF APPLICATION:** Check those which apply for [A]
A. Location – Spacing Unit – Simultaneous Dedication
☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]
[I] Commingling – Storage – Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

FOR OCD ONLY
☐ Notice Complete
☐ Application Content Complete

2) **NOTIFICATION REQUIRED TO:** Check those which apply.
A. ☒ Offset operators or lease holders
B. ☒ Royalty, overriding royalty owners, revenue owners
C. ☒ Application requires published notice
D. ☐ Notification and/or concurrent approval by SLO
E. ☐ Notification and/or concurrent approval by BLM
F. ☒ Surface owner
G. ☒ For all of the above, proof of notification or publication is attached, and/or,
H. ☐ No notice required

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Joel Lowry
Print or Type Name

Joel Lowry
Signature

4/18/2019
Date

432-466-4450
Phone Number

joel@lowryenvironmental.com
e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. *PURPOSE:* _____ *Secondary Recovery* _____ *Pressure Maintenance* **XXX** *Disposal* _____ *Storage*
Application qualifies for administrative approval? **XXX** *Yes* _____ *No*

II. *OPERATOR:* **LilyStream Water Solutions, LLC**
ADDRESS: **1308 West Ave. N, Lovington, NM, 88260**
CONTACT PARTY: **Joel Lowry** *PHONE:* **432-466-4450**

III. *WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injections. Additional sheets may be attached if necessary.*

Applicable Well Data is provided as Attachment #1.

IV. *Is this an expansion of an existing project?* _____ *Yes* **XXX** *No*
If yes, give the Division order number authorizing the project: **N/A**

V. *Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.*

A map identifying all wells and leases within a two mile radius is provided as Figure 1 in Attachment #2.
A map identifying all wells and leases within the one-mile expanded Area of Review is provided as Figure 2 in Attachment #2.

VI. *Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.*

A tabulation of data on all wells of public record within the expanded area of review which penetrate the proposed injection zone is provided as Attachment #3.

VII. *Attach data on the proposed operation, including:*

1. *Proposed average and maximum daily rate and volume of fluids to be injected;*
2. *Whether the system is open or closed;*
3. *Proposed average and maximum injection pressure;*
4. *Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,*
5. *If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).*

Proposed operation details are provided as Attachment #4.
Analysis from source zone produced water is provided as Attachment #4a.
Analysis from injection zone produced water is provided as Attachment #4b.

***VIII.** *Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.*

Geological data on the proposed injection zone is provided as Attachment #5.

IX. *Describe the proposed stimulation program, if any.*

Acid may be utilized to clean and open the formation in accordance with industry standards, as necessary.

***X.** *Attached appropriate logging and test data on the well. (If well logs have been filed with the Division, the need not be resubmitted).*

As this is a new drill, logging and test data is not available. Well Log and test data will be filed with the NMOCD upon completion of the well. NMOCD District I Office will be notified prior to conducting MIT.

***XI.** *Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.*

A map depicting fresh water wells within a one mile radius and associated chemical analysis, if applicable, is provided as Attachment #6.

XII *Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal one and any underground sources of drinking water.*

An Affirmative Statement is provided as Attachment #7.

XIII *Applicants must complete the "Proof of Notice" section on the reverse side of this form.*

"Proof of Notice" documentation is provided as Attachment #8.

XIV. *Certification: I hereby certify that the information submitted with the application is true and correct to the best of my knowledge and belief.*

NAME: Joel Lowry *TITLE:* Agent of Lilystream Water Solutions, LLC

SIGNATURE: Joel Lowry

EMAIL ADDRESS: joel@lowryenvironmental.com

If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submitt

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

ATTACHMENT #1

Well Data

Attachment #1

III. Well Data

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1)

General Well Information	
Operator	LilyStream Water Solutions, LLC
Lease Name & Well No.	Bounds SWD #1
Location	820' FNL & 200' FWL, UL D, Sec. 33, T24S, R26E

(2)

Casing Information								
String	Size (in.)	Grade	Weight	Setting Depth (ft bgs)	Cement (sx)	Hole Size (in.)	Estimated Top of Cement	Method of Determination
Surface	20	J-55	94.0 lb/ft.	400	1,100	26	Surface	Circulation
Intermediate 1	13.375	P-110	80.7 lb/ft	1,800	1,026	17.5	Surface	Circulation
Production	9.625	P-110	53.5 lb/ft.	8,720	1,401	12.25	Surface	Circulation
Liner	7.625	P-110	39.0 lb/ft.	8420 to 12410	419	8.5	8420' (TOL)	CBL

(3)

Description of Tubing			
Size	Weight	Lining Material	Setting Depth (ft.)
5.5"	23.0 lb/ft	Internal Plastic Coated	8,360
5"	18.0 lb/ft	Internal Plastic Coated	12,310

(4)

Packer Information	
Type	Setting Depth (ft.)
LOK-SET ™ or Equivalent	12,310

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

Injection Information		
(1)	Name of Injection Formation:	Devonian-Silurian
(2)	Injection Interval:	12410 to 13510 ft.
	Perforated or Open-Hole:	Open Hole
(3)	Purpose of Well:	New Drill for Salt Water Disposal
(4)	Other Perforated Intervals:	None

(5)

Estimated Depth of Various Formations Including Oil and Gas Zones (ft. bgs)	
B. Salt	1,520
T. Delaware	1,675
T. Bone Spring	5,335
T. 3rd Bone Spring	8,085
T. Wolfcamp	8,320
T. Cisco	9,915
T. Strawn	10,055
T. Atoka	10,285
T. Morrow	10,645
T. Barnett	11,866
T. Woodford Shale	12,350
T. Devonian	12,410
T. Montoya	13,510

There are no known oil and gas zones beneath the proposed injection zone.

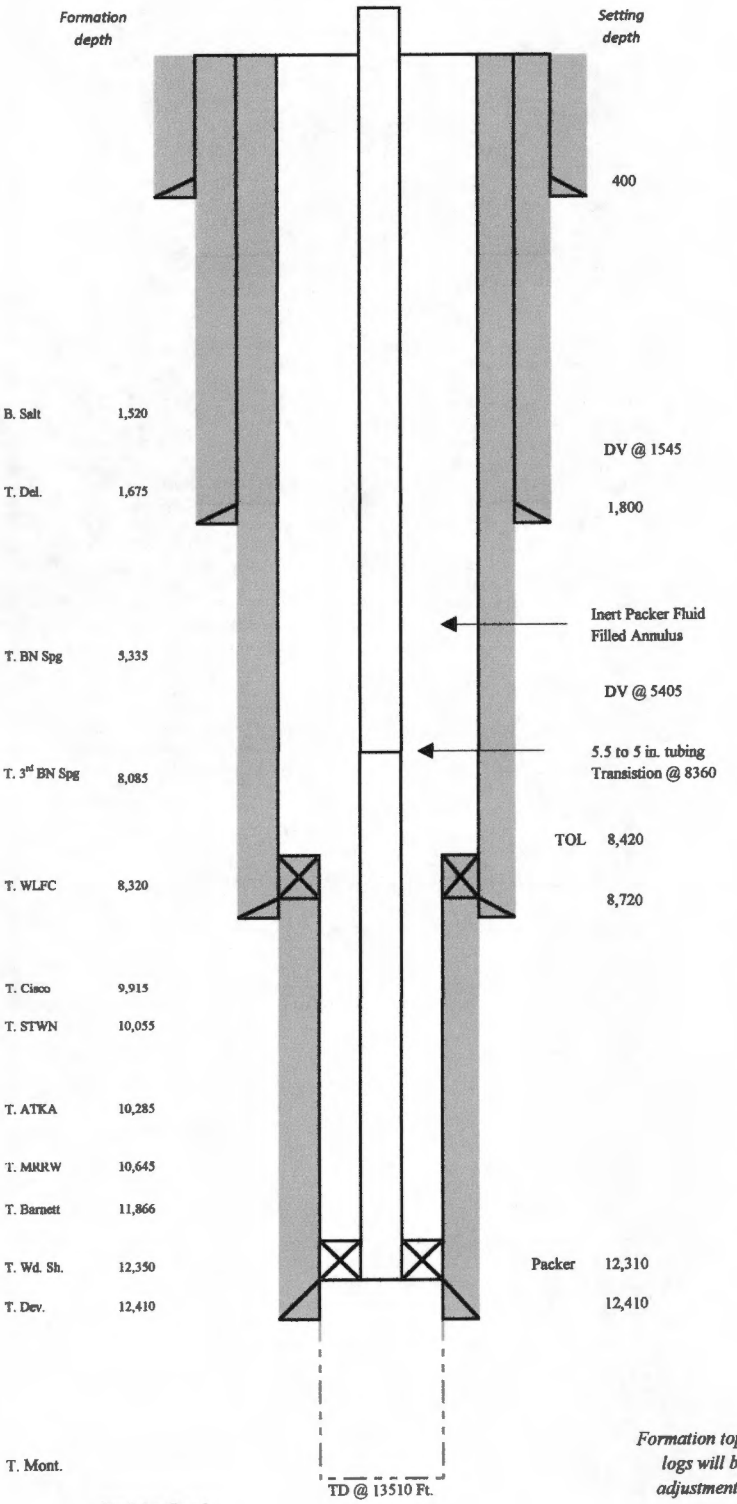
INJECTION WELL DATA SHEET

OPERATOR: **LilyStream Water Solutions, LLC**

WELL NAME & NUMBER: **Bounds SWD #1**

WELL LOCATION					
820' FNL & 200' FWL	**D**	**33**	**24S**	**26E**
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC



Not to Scale

WELL CONSTRUCTION DATA

Surface Casing

Hole Size **26** in. Casing Size: **20** in.

Setting Depth: **Surface** ft. to **400** ft.

Cemented with: **1100** sx. or _____ ft^3

Top of Cement: **Surface** Method Determined **Circulation**

1st Intermediate Casing

Hole Size **17.5** in. Casing Size: **13.375** in.

Setting Depth: **Surface** ft. to **1,800** ft.

Cemented with: **1026** sx. or _____ ft^3

Top of Cement: **Surface** Method Determined **Circulation**

Production Casing

Hole Size **12.25** in. Casing Size: **9.625** in.

Setting Depth: **Surface** ft. to **8,720** ft.

Cemented with: **1401** sx. or _____ ft^3

Top of Cement: **Surface** Method Determined **Circulation**

Liner

Hole Size **8.5** in. Casing Size: **7.625** in.

Setting Depth: **8,420** ft. to **12,410** ft.

Cemented with: **419** sx. or _____ ft^3

Top of Cement: **8420** TOL Method Determined **CBL**

Open Hole Injection Interval

12,410 ft. to **13,510** ft

Formation tops have been extrapulated from control wells in the vicinity. During drilling activites, mud and other logs will be utilized to confirm depths and thicknesses of geologic formations. Should logging data indicate adjustments are required to the casing and cement program, applicable Sundry Notices will be filed with the NMOCD.

INJECTION WELL DATA SHEET

Tubing Size: **5.5" tapered to 5"** Lining Matrial: **Internal Plastic Coated (ICP)**

Type of Packer: **LOK-SET ™ or Equivalent**

Packer Setting Depth: 12,310 Ft.

Other Type of Tubing/Casing Seal (if applicable): **Not Applicable**

Additional Data

1. Is this a new well drilled for injection? **XXX** Yes _____ No

   If no, for what purpose was the well oringally drilled? **N/A**

2. Name of the Injection Formation: **Devonian-Silurian**

3. Name of Field or Pool (if applicable): **SWD; Devonian-Silurian**

4. Has the well ever been perforated in any other zones (s)" List all such perforated intervals and give plugging detail, i.e. sacks of cent or plugs(s) used. **N/A**

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

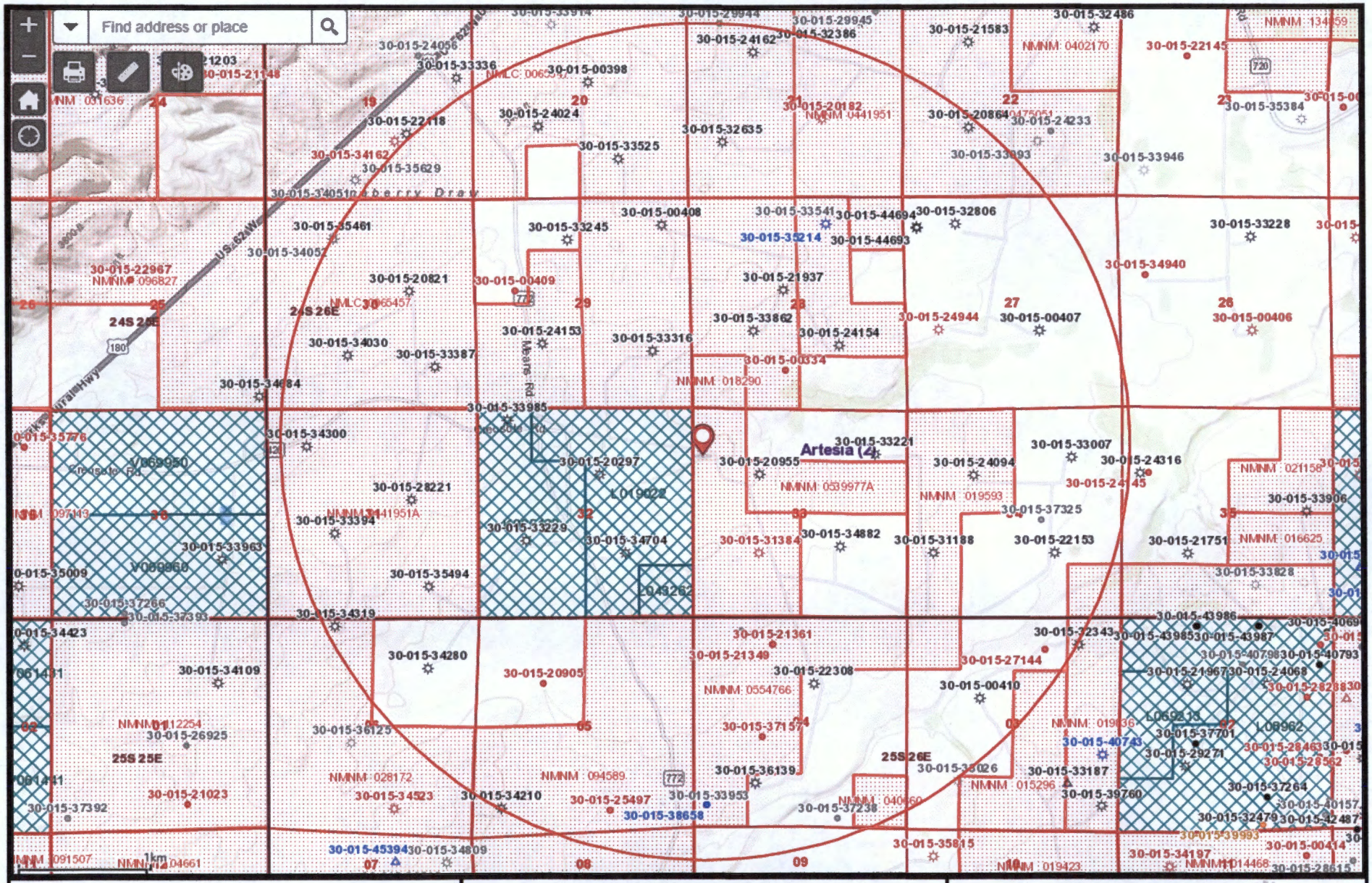
name	*depth*
B. Salt	**1,520**
T. Delaware	**1,675**
T. Bone Spring	**5,335**
T. 3rd Bone Spring	**8,085**
T. Wolfcamp	**8,320**
T. Cisco	**9,915**
T. Strawn	**10,055**
T. Atoka	**10,285**
T. Morrow	**10,645**
T. Barnett	**11,866**
T. Woodford	**12,350**
T. Devonian	**12,410**
T. Montoya	**13,510**

There are no known oil and gas zones underlying the proposed injection interval

ATTACHMENT #2

Figure 1 - 2-Mile Area of Review Map

Figure 2 - 1-Mile Area of Review Map



LEGEND:

- Proposed SWD Location
- 2-Mile Radius

Figure 1 - 2-Mile Area of Review Map

LilyStream Water Solutions, LLC

Bounds SWD #1

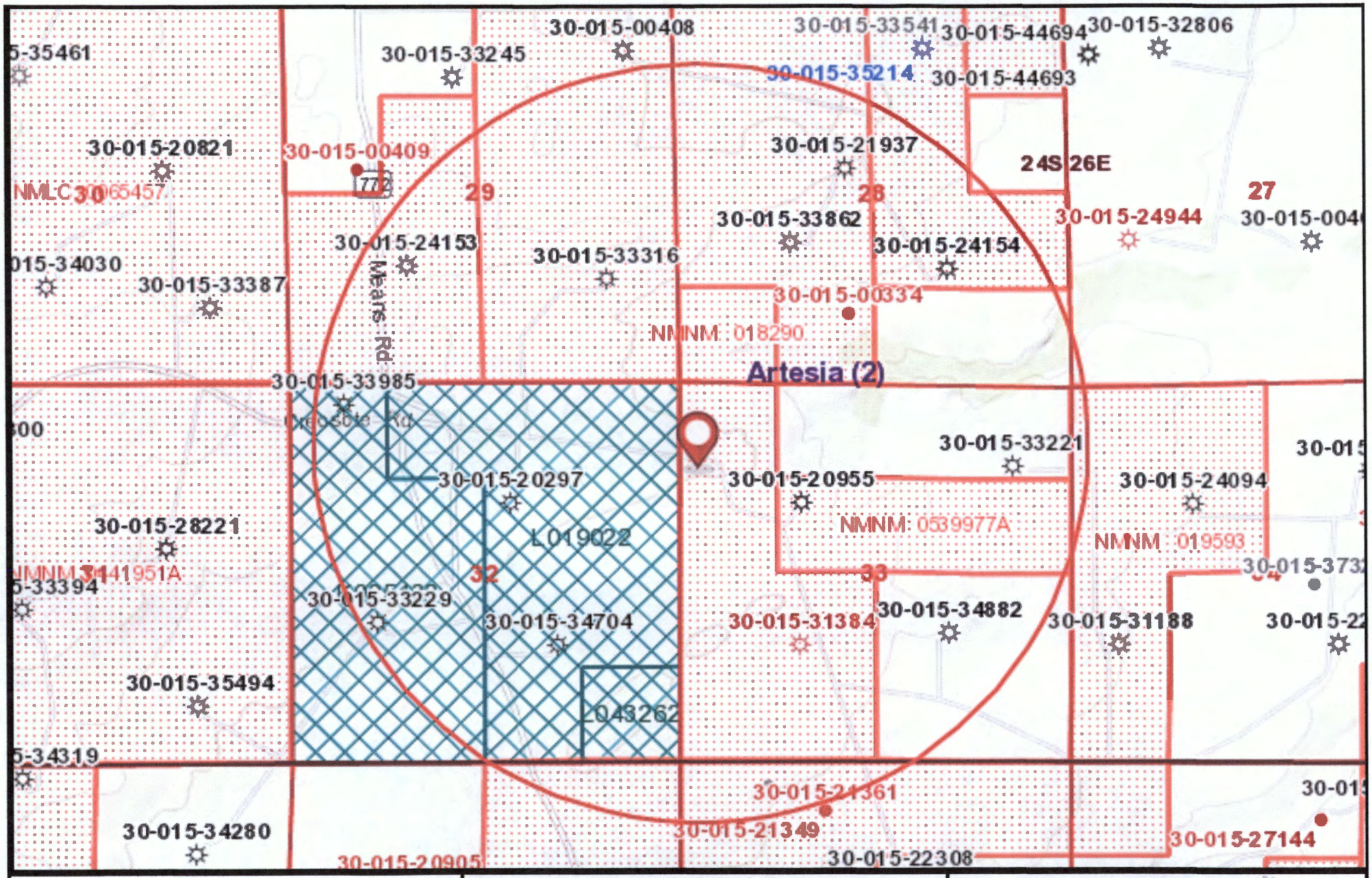
API No. Pending

Legals: UL D, Sec. 33,T24S, R26E

Eddy Co, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 2/11/2019



LEGEND:

- Proposed SWD Location
- 1-Mile Radius

Figure 2 - 1-Mile Area of Review Map

LilyStream Water Solutions, LLC

Bounds SWD #1

API No. Pending

Legals: UL D, Sec. 33,T24S, R26E

Eddy Co, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 2/11/2019

ATTACHMENT #3

Tabulation of Data Wells within AOR

Summary of Wells within AOR and Surrounding Vicinity									
API No.	Well Name	Type	Status	Section	Township	Range	Unit Letter	OCRID Name	Pool ID
30-015-00334	PRE-ONGARD WELL #001	Oil	Plugged (Site Released	28	24S	26E	N	PRE-ONGARD WELL OPERATOR	
30-015-00407	CRAWFORD 27 #002	Gas	Active	27	24S	26E	J	CIMAREX ENERGY CO. OF COLORADO	[87280] WHITE CITY, PENN (GAS)
30-015-00409	PRE-ONGARD WELL #001	Oil	Plugged (Site Released	29	24S	26E	E	PRE-ONGARD WELL OPERATOR	
30-015-20821	J M GATES FEDERAL NCT-1 #001	Gas	Active	30	24S	26E	G	CHEVRON U S A INC	[87280] WHITE CITY, PENN (GAS)
30-015-21937	WHITE CITY PENN GAS COM UNIT 3 #001	Gas	Active	28	24S	26E	F	CHEVRON U S A INC	[87280] WHITE CITY, PENN (GAS)
30-015-24153	WHITE CITY PENN GAS COM UNIT 1 #002	Gas	Active	29	24S	26E	K	CHEVRON U S A INC	[87280] WHITE CITY, PENN (GAS)
30-015-24154	WHITE CITY PENN GAS COM UNIT 3 #002	Gas	Active	28	24S	26E	J	CHEVRON U S A INC	[87280] WHITE CITY, PENN (GAS)
30-015-24944	CRAWFORD 27 #003	Gas	Plugged (Not Released)	27	24S	26E	L	CIMAREX ENERGY CO. OF COLORADO	[87280] WHITE CITY, PENN (GAS)
30-015-33245	WHITE CITY PENN 29 GAS COM UNIT #004	Gas	Active	29	24S	26E	C	CHEVRON U S A INC	[87280] WHITE CITY, PENN (GAS)
30-015-33316	WHITE CITY PENN 29 GAS UNIT 1 #003	Gas	Active	29	24S	26E	I	CHEVRON U S A INC	[87280] WHITE CITY, PENN (GAS)
30-015-33387	J M GATES FEDERAL NCT-1 #002	Gas	Active	30	24S	26E	P	CHEVRON U S A INC	[87280] WHITE CITY, PENN (GAS)
30-015-33862	White City Penn A 28 Gas Com Unit 3 #004	Gas	Active	28	24S	26E	K	CIMAREX ENERGY CO. OF COLORADO	[87280] WHITE CITY, PENN (GAS); [98018] WC-015 G-04 S262625B, BONE SPRING; [98142] WC-015 G-04 S242628K, BONE SPRING
30-015-33985	NEW MEXICO DD STATE COM #003	Gas	Active	32	24S	26E	D	CIMAREX ENERGY CO. OF COLORADO	[87280] WHITE CITY, PENN (GAS); [98220] PURPLE SAGE, WOLFCAMP (GAS)
30-015-34030	J M GATES FEDERAL NCT-1 #003	Gas	Active	30	24S	26E	K	CIMAREX ENERGY CO. OF COLORADO	[87280] WHITE CITY, PENN (GAS); [97693] BLACK RIVER, WOLFCAMP, SW (GAS)(ABOL; [98220] PURPLE SAGE, WOLFCAMP (GAS)

No Wells within AOR penetrate the proposed injection zone.

ATTACHMENT #4

Proposed Operations

A. Source Zone Produced Water Analysis

B. Injection Zone Produced Water Analysis

VII. Proposed Operations

Attach data on the proposed operation, including:

	Proposed Operation		
(1)	Average Rate:	20,000 bbls	
	Maximum Rate:	30,000 bbls	
(2)	Open or Closed:	Open	
(3)	Average Injection Pressure:	1,500 - 2,000	psi
	Maximum Injection Pressure:	2,482	psi

(4) ***Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected productid water; and***

The anticipated sources of produced water proposed to be injected into the Devonian and Silurian formations are from the Delaware, Wolfcamp and Bone Springs Formations, which are known to be compatible with formation water from the Devonian Formation. Laboratory analysis of water samples collected from the respective formations is provided as **Attachment #4a.**

(5) ***If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water***

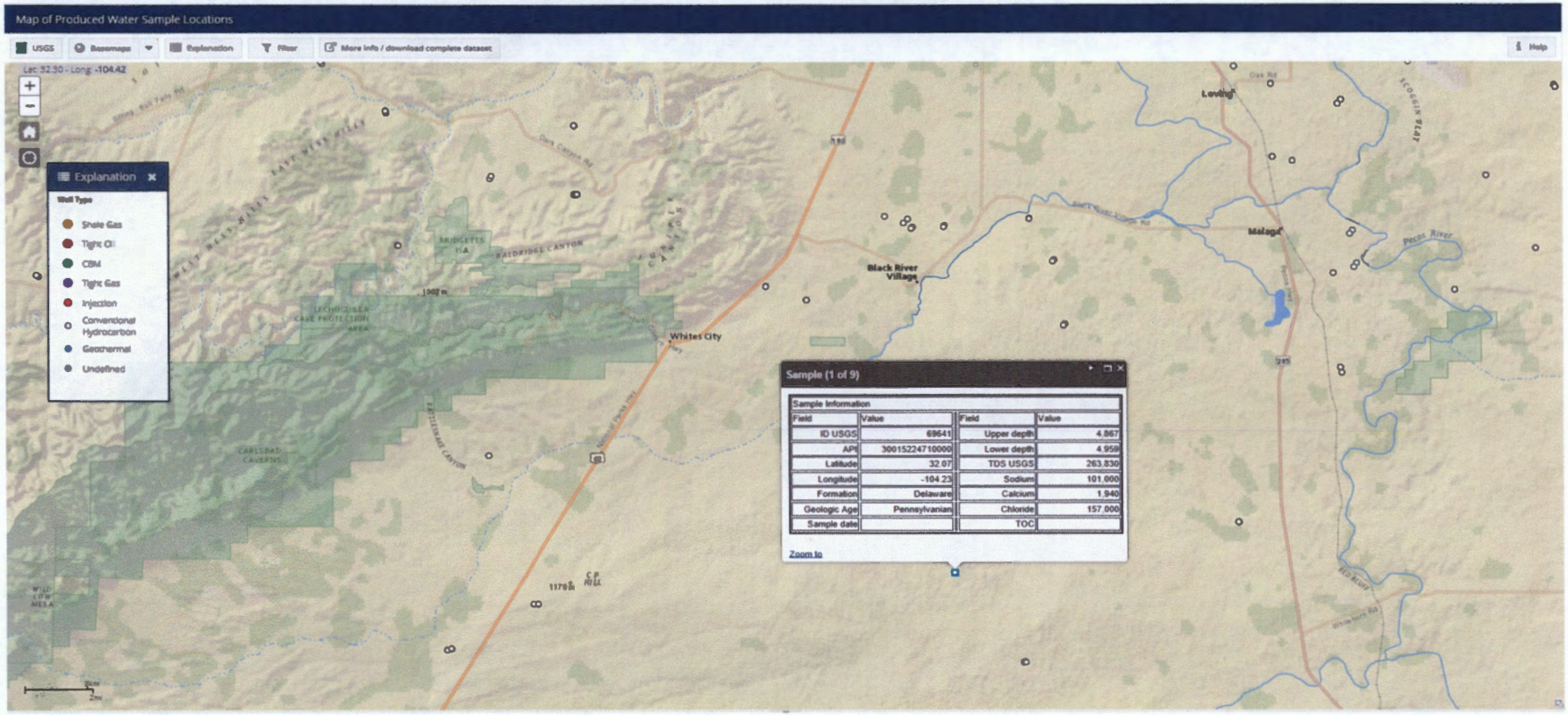
Laboratory analysis of water samples collected from the Devonian and Fusselman Formations are provided as **Attachment #4b.**

Safety, Spill Prevention and Release Response

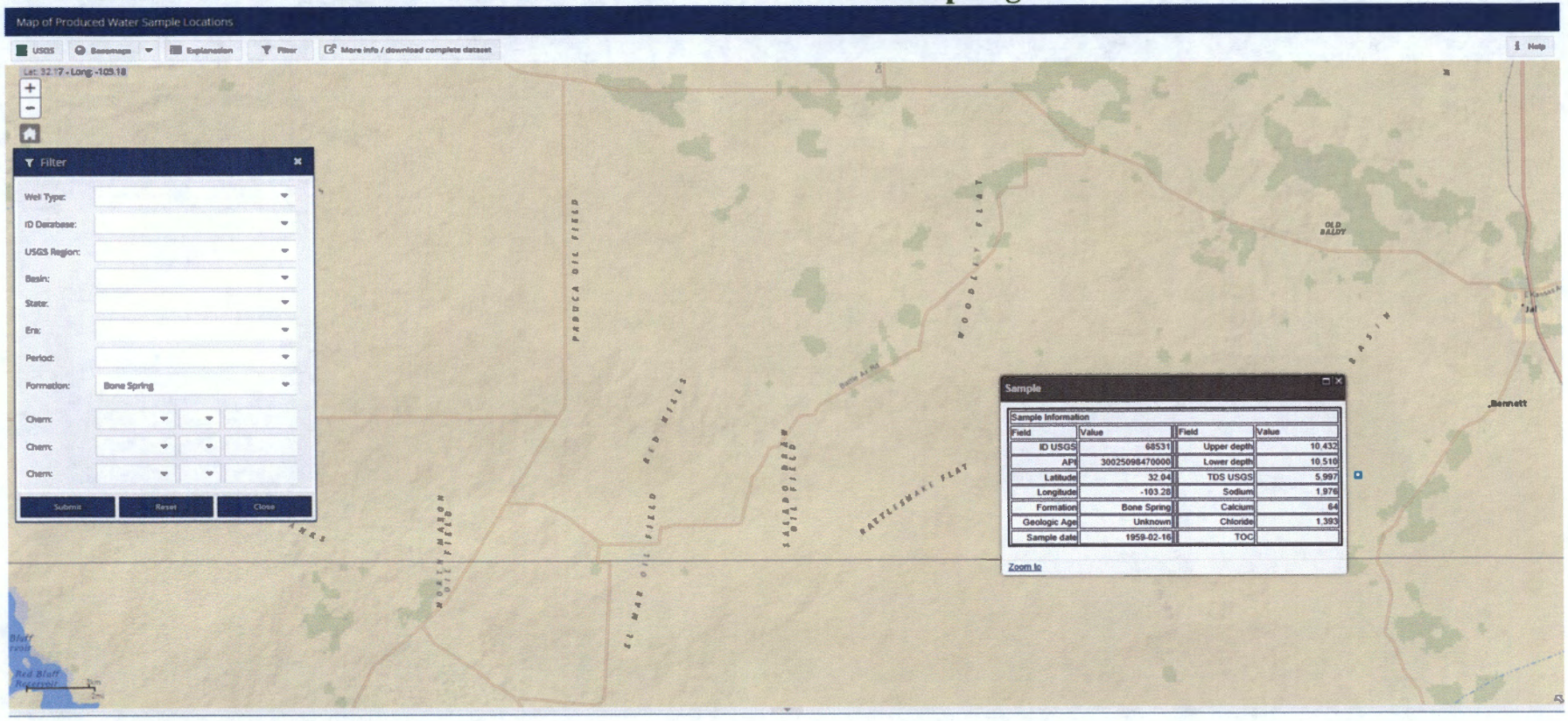
Above-ground storage tanks (ASTs) associated with the SWD operation will be placed into a steel-walled, lined containment system. The well, injection equipment and ASTs will be equipment with metering and pressure sensing devices in an effort to monitor and ensure the integrity of the equipment and prevent accidental releases to the environment.

In the event of an accidental releases to the environment, a Release Notification (NMOCD Form C-141) will be prepared, characterizing the release and proposing remediation activities designed to mitigate environmental impacts, as necessary. In the event of an accidental discharge of greater than 25 bbls, the NMOCD will be notified immediately.

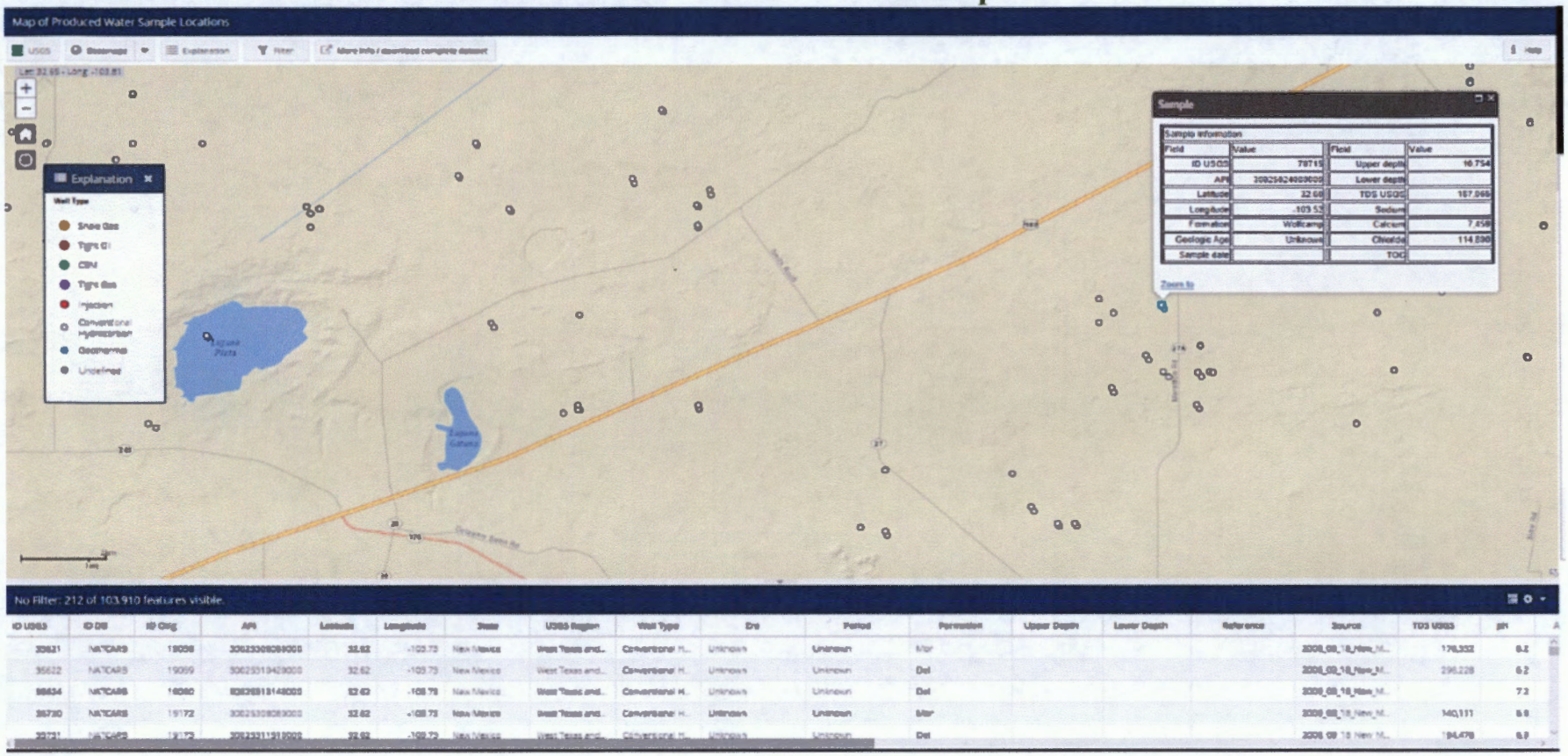
Attachment 4A - Source Zone Produced Water Delaware



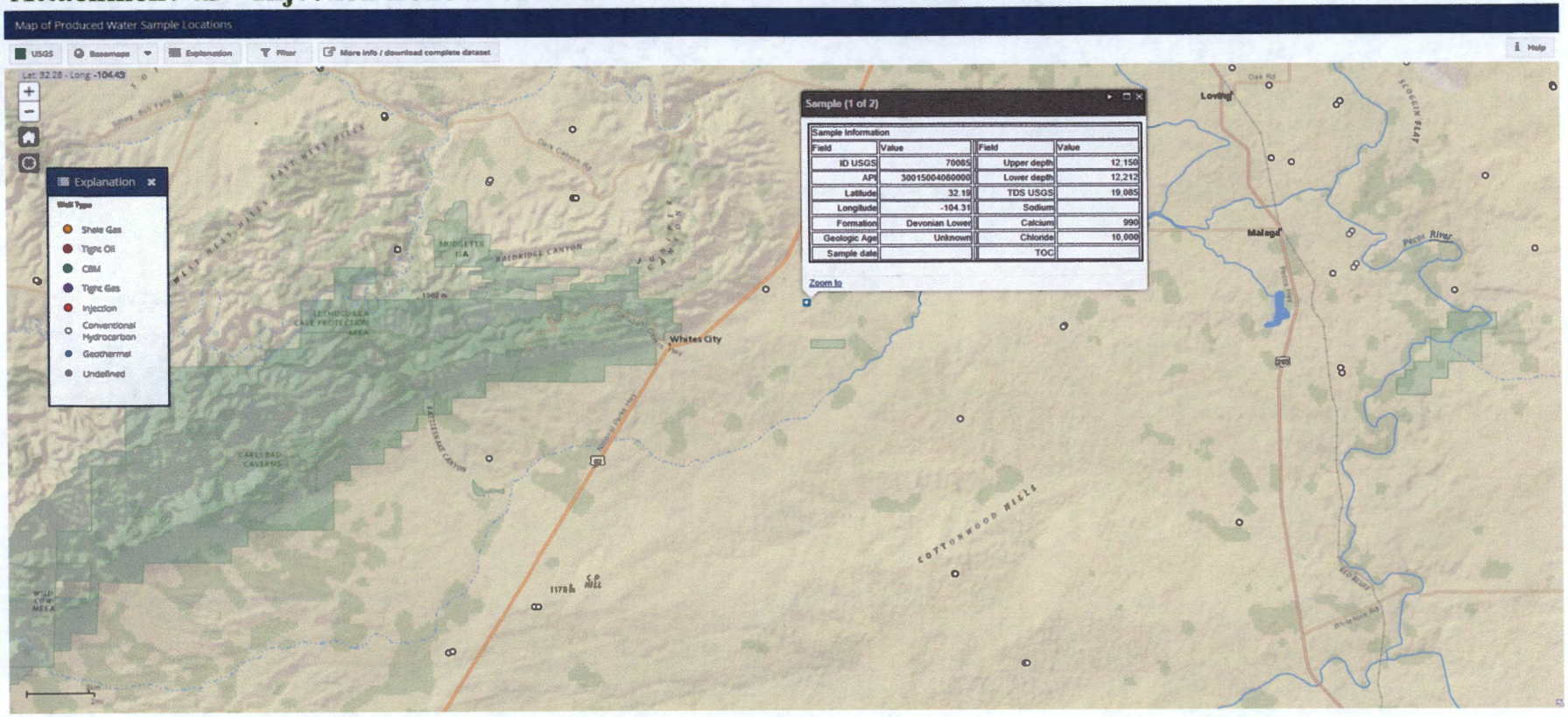
Attachment 4A - Source Zone Produced Water Bone Spring



Attachment 4A - Source Zone Produced Water Wolfcamp

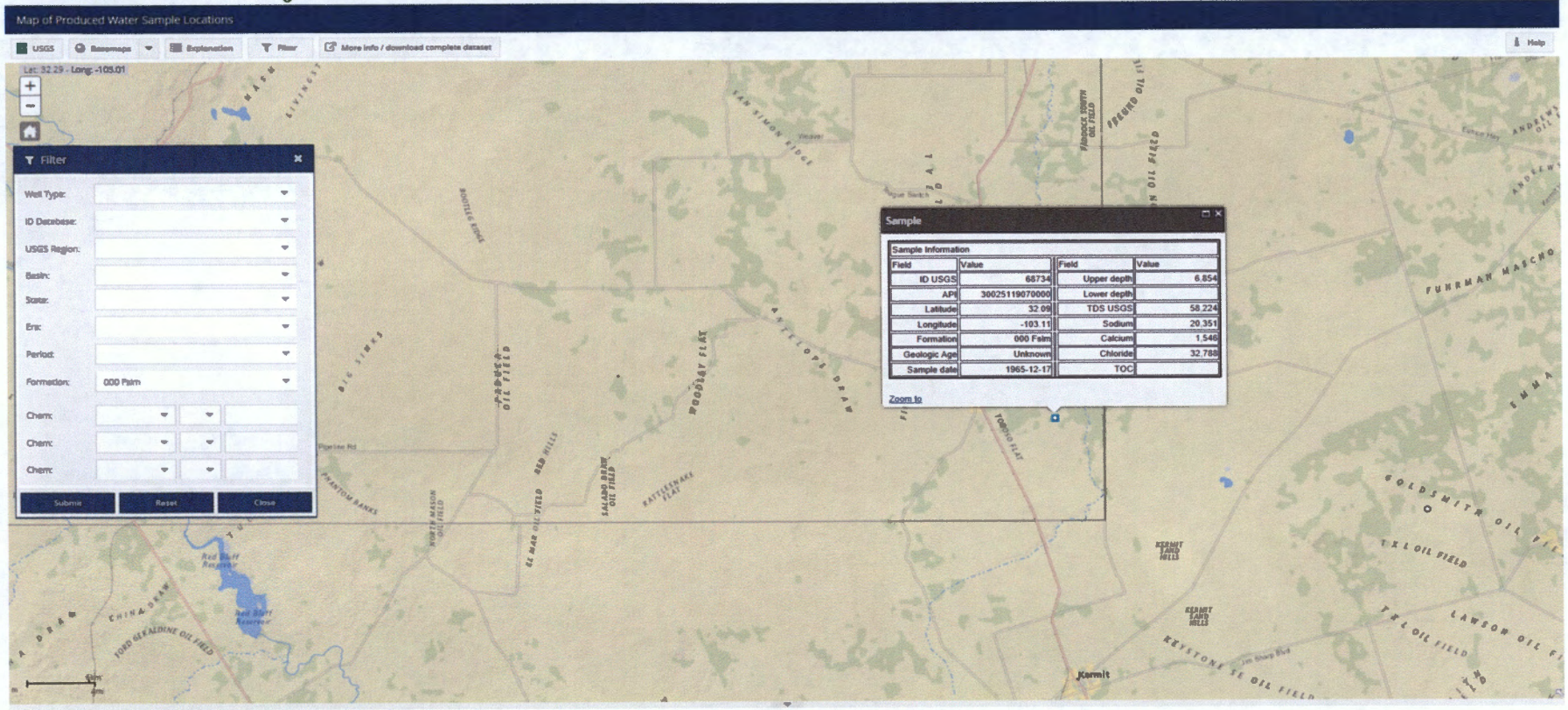


Attachment 4B - Injection Zone Produced Water Devonian



Attachment 4B - Injection Zone Produced Water

Fusselman



ATTACHMENT #5

A. Geological Description

B. Seismic Information

VIIIa Geologic Description

a. Attach appropriate geologic data on the injection zone including appropriate lithological detail, geologic name, thickness, and depth.

The proposed injection interval consists of sedimentary rock formations deposited during the Devonian and Silurian Periods. The Devonian Formation consists of porous dolomites, chert intervals and limestone (McGlasson, E.H. 1967). The thickness of the Devonian and Silurian Formations is estimated to be approximately 1,000 feet (ft.) locally. Sections of porous dolomite and limestone are believed to be present at the proposed injection site. The proposed injection interval is overlain by the Woodford Shale, which ranges in thickness from 100 to 300 ft. consists of organic-rich dark shales, black cherts, siltstone, sandstone and greenish-colored shales (Broadhead, R.F., 2010). Inferred depths of the proposed injection zone were estimated utilizing completions data from wells within the vicinity.

During the advancement of the proposed well, mud logging data will be utilized to ensure that the thickness of the Devonian and Silurian Formation is adequately defined, allowing for the proper placement of the packer, casing shoe and determination of the open-hole injection interval. Should logging data indicate depth adjustments are required for the casing program, applicable Sundry Notices will be filed with the NMOCD.

b. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/kg or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

A search of the NMOSE database suggests the presence of **seven (7)** wells within a 2-mile radius of the Site. The wells are were drilled to depths ranging from **70 to 180 ft. bgs**; there are no water wells within a 1-Mile radius of the proposed injection well.

A search of the USGS database suggests the presence of **three (3) wells** within the vicinity of the Site. **Two (2)** of the wells were completed in Alluvium and Bolson Deposits **one (1)** of the wells was completed in the Castille Gypsum. Data from wells with available information suggested static water levels ranged from **16.03 ft. bgs** as measured within Alluvium and Bolson deposits in a well approximately **2.2 Mi northeast** of the Site to **89.9 Ft. bgs** as measured in a well approximately **2.1 Mi. North-Northeast** of the Site. There is **one (1)** USGS well within a 1-Mile radius of the proposed injection well.

Other known water sources in the area include the Rustler Formation, which outcrops east of the Site. Locally, the Rustler is "spotty" and/or has been eroded entirely.

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

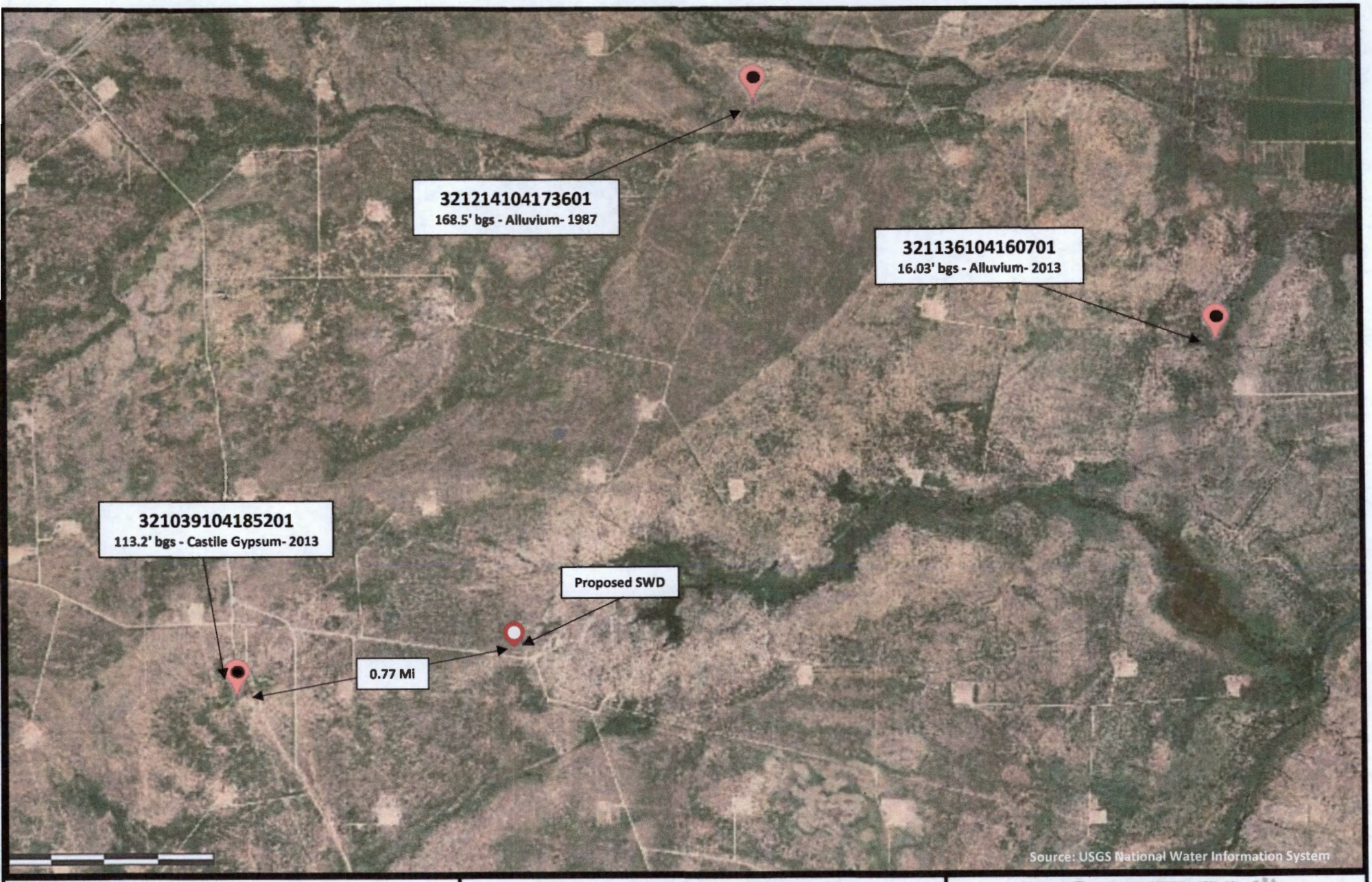
(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 565462 **Northing (Y):** 3560446 **Radius:** 1608

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.



LEGEND:

- Proposed SWD Location
- USGS Water Well (Reported)

Figure 3 - Groundwater Resource Map

LilyStream Water Solutions, LLC

Bounds SWD #1

API No. Pending

Legals: UL D, Sec. 33,T24S, R26E

Eddy Co, New Mexico

LOWRY environmental

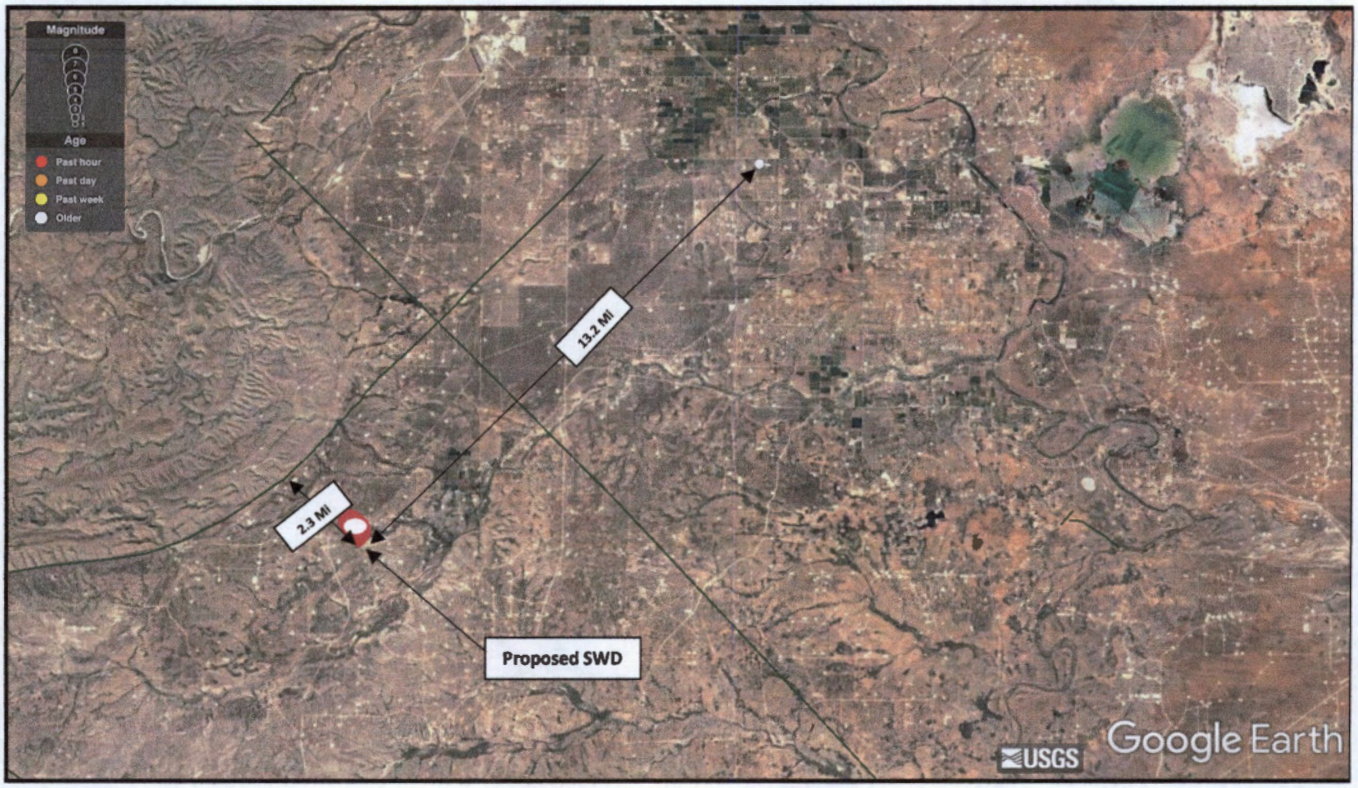
Drafted by: jwl Checked by: client Date: 2/11/2019

VIIIb Seismic Information

The proposed injection well is located within the western portion of the Delaware Basin in **Unit Letter "D", Section 33, Township 24 South, Range 26 East** in Eddy County, New Mexico. A review of USGS data available on the ComCat Earthquake Catalog indicates the nearest seismic event exceeding a magnitude of 0.1 occurred approximately **13.2 Mi** northeast of Site. The seismic event was reported as a magnitude 3.9 occurring in November of 1974.

The nearest fault trace is approximately **2.3 Mi** northwest of the proposed injection well. The fault trace is indicative of a normal fault striking Northeast-Southwest.

Data available on the ComCat Earthquake Catalog suggests the recorded seismic events within the region did not occur on the described faults.



Faults traces are depicted as green linear features. Seismic events with available data are depicted as grey dots of which the size is representative of the magnitude. Details regarding the depicted faults are provided on the following page.

Sources:

Bureau of Economic Geology. Accessed February 2019. Permian Basin Geologic Synthesis Project. https://gis.utlands.utsystem.edu/ags/rest/services/GeologicFeatures/MapServer

U.S. Geological Survey (USGS). February 2019. Earthquakes Hazard Program: ComCat Earthquake Catalog. https://earthquake.usgs.gov/learn/kml.php

VIIIb Seismic Information

A recent publication prepared by Snee and Zoback (2018) entitled "State of Stress in the Permian Basin, Texas and New Mexico" discusses the fault slip potential of fault traces complied from Ewing et al. (1990), Green and Jones (1997), Ruppel et al. (2005) as well the USGS Quaternary Faults and Fold Database. A map detailing their findings with the proposed injection well location superimposed is provided below:

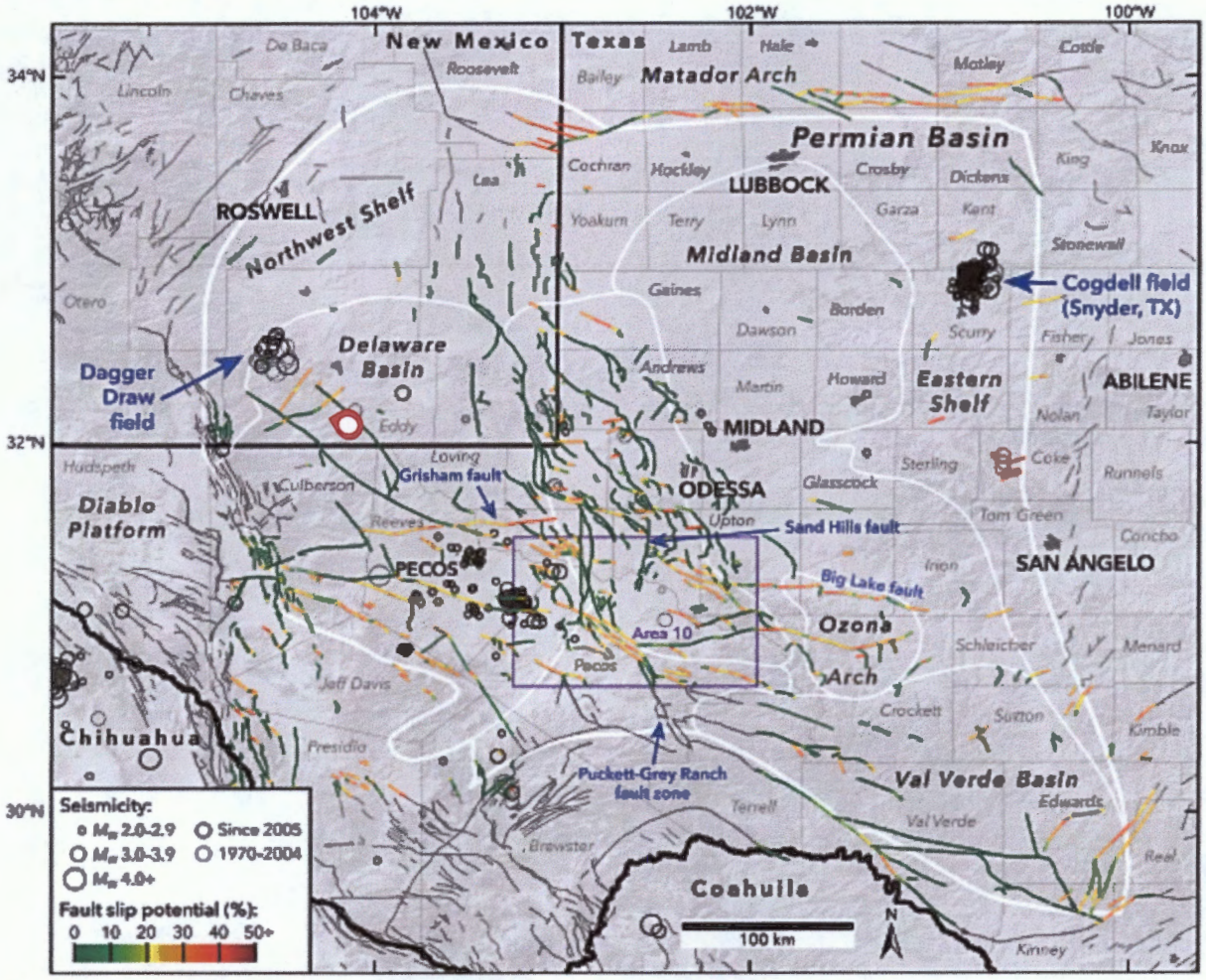


Figure 3. Results of our probabilistic FSP analysis across the Permian Basin. Data sources are as in Figures 1 and 2.

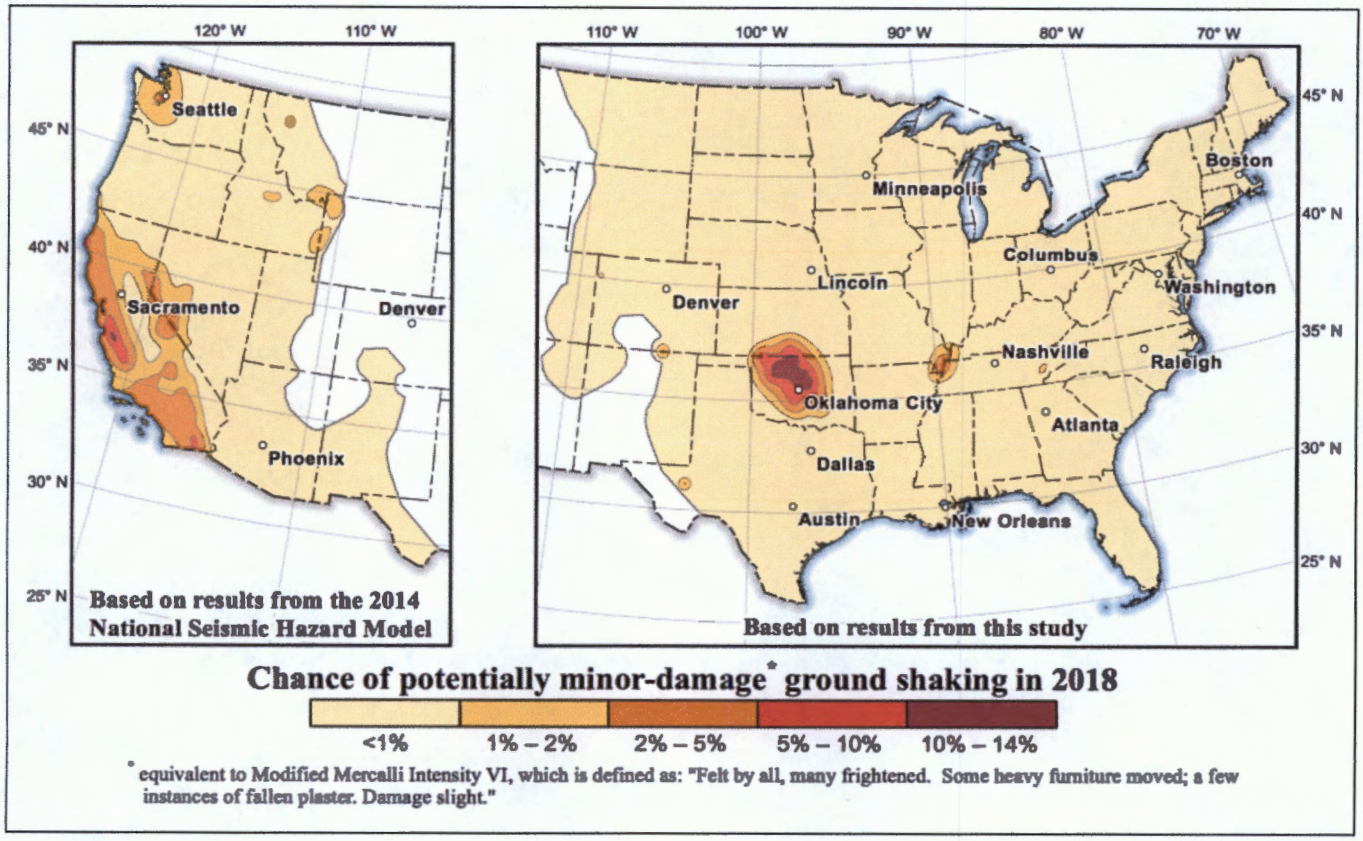
Based on the proposed injection well's distance to known faults, relative low faulting and seismic activity in the area, review of historical earthquake data and the presence of confining layers above and beneath the proposed injection zone, it is unlikely that the proposed injection activities will contribute to a fault-slip event.

Source:

Snee, Jens-Erik Lund, and Mark D. Zoback. 2018 "State of Stress in the Permian Basin, Texas and New Mexico; Implication for Induced Seismicity." The Leading Edge 37 (February 2018).

VIIIb Seismic Information

Data from the 2018 USGS One-Year probabilistic seismic hazard forecast suggests there was a less than 1% chance of potentially minor-damage from induced and natural ground shaking in 2018, as depicted on the map below:



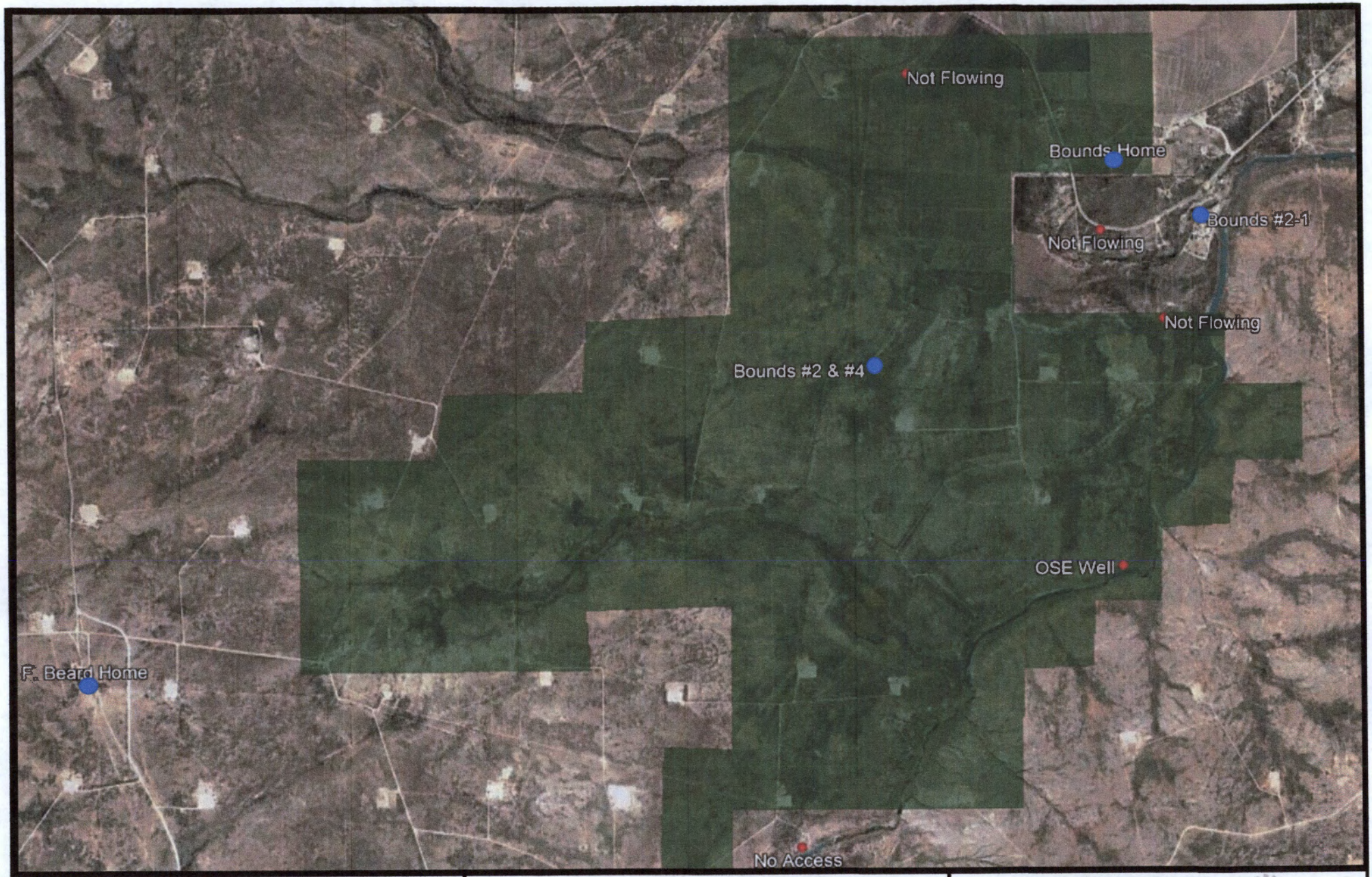
Source:

U.S. Geological Survey (USGS). February 2019. Earthquakes Hazard Program: Short-term Induced Seismicity Models. https://earthquake.usgs.gov/hazards/induced/index.php#2018

ATTACHMENT #6

Fresh Water Laboratory Analysis (*if applicable*)

Fresh Water Sample Location Map (*if applicable*)



LEGEND:

- Sampled Water Well
- *Reported Water Well
- Bounds Ranch

* Not Sampled due to Absence, P&A Status, or Access Issues

Laboratory Analysis not appended to this report will be provided upon receipt under a separate cover

Figure 5 - Water Well Sample Map

LilyStream Water Solutions, LLC

Bounds Family Trust Ranch

Eddy County, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 2/11/2019

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Lowry Environmental	**BILL TO**	
Project Manager:	Joel Lowry	**P.O. #:**	
Address:	PO Box 896	**Company:**	Lowry Env
City:	Lovington **State:**	**Zip:** #	**Attn:** Joel Lowry
Phone #:	432-466-4450 **Fax #:**		**Address:** PO Box 896
Project #:	**Project Owner:**		**City:**
Project Name:	Bounds Family Ranch		**State:** **Zip:**
Project Location:	Eddy Co, NM		**Phone #:**
Sampler Name:	Joel Lowry		**Fax #:**

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST											
Lab I.D.	**Sample I.D.**	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021	TDS								
H901419																									
1	Bounds Home well	G	1	X							X		4/16/19	17:15	X			X							
2	Bounds #2-1	"	"	"							"		"	10:29	X			X							
3	Bounds #2 / #4	"	"	"							"		"	10:42	X			X							

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Relinquished By: Joel Lowry	**Date:** 4/18/19 **Time:** 10:20	**Received By:** Martha Turner	**Phone Result:** ☐ Yes ☐ No **Add'l Phone #:**
Relinquished By: Martha Turner	**Date:** 4/18/19 **Time:** 12:15	**Received By:** Jodi Henson	**Fax Result:** ☐ Yes ☐ No **Add'l Fax #:**
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 0.6°C / #97	**Sample Condition** Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	**CHECKED BY: (Initials)**	**REMARKS:**

FORM-006 R 2.0

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

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(575) 393-2326 FAX (575) 393-2476

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Project Manager:	Joel Lowry
Address:	PO Box 896
City:	Lovington **State:** **Zip:** #
Phone #:	432-466-4450 **Fax #:**
Project #:	**Project Owner:**
Project Name:	F. Board
Project Location:	Eddy Co, NM
Sampler Name:	Joel Lowry

BILL TO

P.O. #:	
Company:	Lowry Env
Attn:	Joel Lowry
Address:	PO Box 896
City:	
State:	**Zip:**
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	Chloride	TPH	BTEX 8021	TDS
H901420																		
1	F. Board Home	G	1	X							X		4/18/19	10:15	X		X	X

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Relinquished By: M Turner	**Date:** 4/18/19 **Time:** 12:15	**Received By:** Jodi Henson	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 0.6°C / #97	**Sample Condition** Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	**CHECKED BY: (Initials)** JH	

Phone Result:	☐ Yes	☐ No	**Add'l Phone #:**
Fax Result:	☐ Yes	☐ No	**Add'l Fax #:**
REMARKS:			

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ATTACHMENT #7

Affirmative Statement

XII. AFFIRMATIVE STATEMENT

Re: LilyStream Water Solutions, LLC
Bounds SWD #1
Legals: UL D, Sec. 33, T24S, R26E

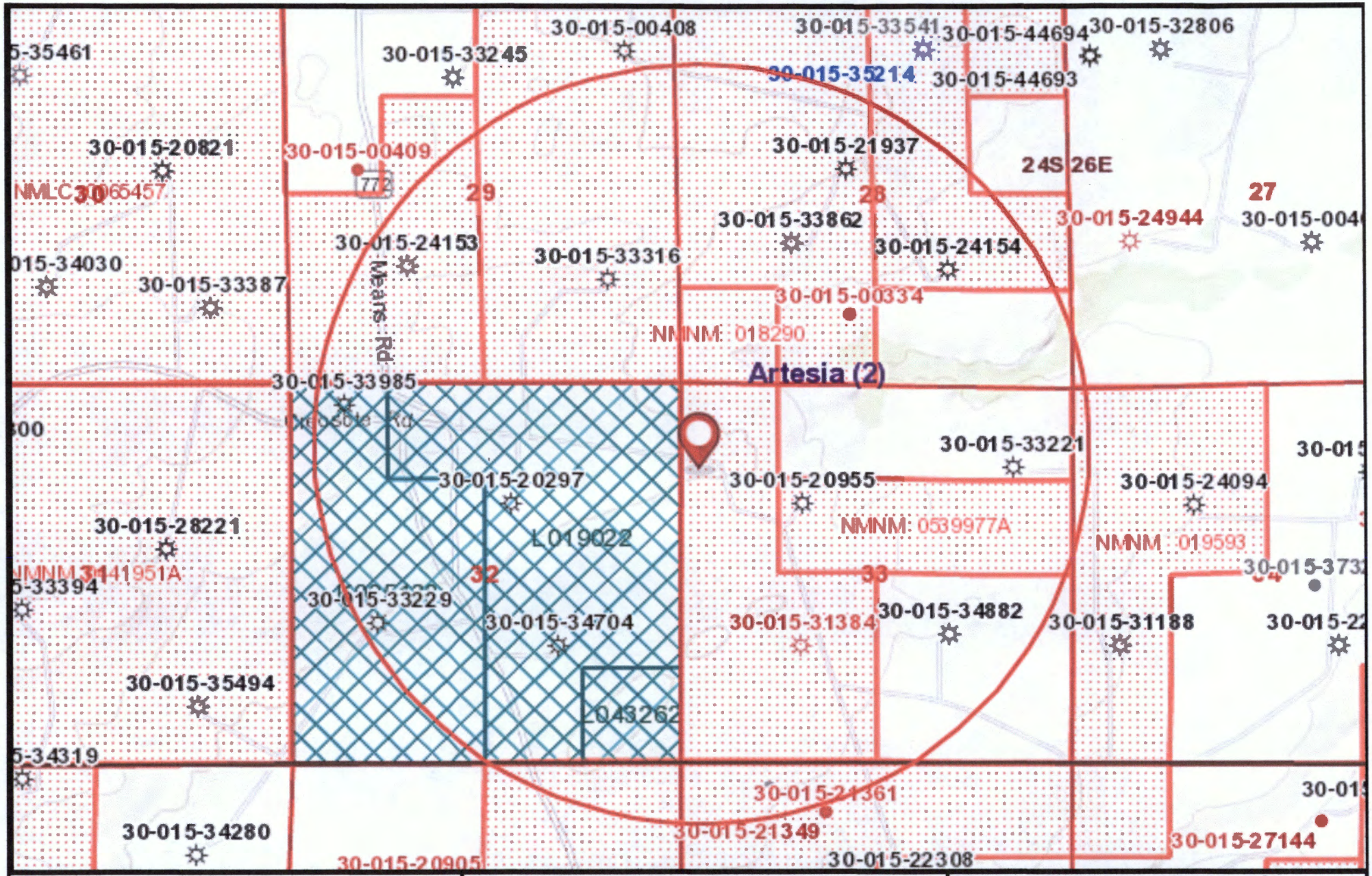
Available geologic and engineering data has been examined and we find no evidence of open faults or any hydrologic connection between the disposal interval and any underground sources of drinking water.

Joel W. Lowry

LOWRY environmental

ATTACHMENT #8

Proof of Notice Documentation



LEGEND:

- Proposed SWD Location
- 1-Mile Radius

Figure 4 - Leasehold Operator Map

LilyStream Water Solutions, LLC

Bounds SWD #1

API No. Pending

Legals: UL D, Sec. 33,T24S, R26E

Eddy County, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 2/11/2019

XIV. PROOF OF NOTICE

Surface Owner:

Bounds Family Trust
1232 Black River Village Rd
Carlsbad, NM 88220

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

EOG M Resources, Inc.
105 S. 4th St.
Artesia, NM 88210

EOG Y Resources, Inc.
105 S 4th St.
Artesia, NM 88210

EOG A Resources, Inc.
105 S. 4th St.
Artesia, NM 88210

Oxy Y-1 Company
P.O. Box 27570
Houston, TX 77227

Marathon Oil Permian LLC
5555 San Felipe St.
Houston, TX 77056

Murchison Oil & Gas, LLC
7250 Dallas Parkway, Suite 1400
Plano, TX 75024

Cimarex Energy Co.
600 N. Marienfeld Street, Suite 600
Midland, TX 79701

Cimarex Energy Co. of Colorado
600 N. Marienfeld Street, Suite 600
Midland, TX 79701

Chevron USA Inc.
6301 Deauville Blvd.
Midland, TX 79706

Pearson Sibert Oil
901 W Missouri Ave
Midland, TX 79701

Chevron USA Holdings Inc
11111 S Wilcrest
Houston, TX 77099

Strong Dorothy June
709 Ocean Shore Blvd
Ormond Beach, FL 32176

Osprey Oil & Gas LLC, a New Mexico
3323 N Midland Dr STE 113-130
Midland, TX 79707

Bond Margaret Ann
1060 Edgewater Dr NW
Atlanta, GA 30328

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CXA Oil & Gas Holdings LP
6000 Legacy Dr
Plano, TX 75024

Clifton Judy Pate Revocable Trust
703 Hamilton Landing Dr
Saint Simons Island, GA 31522

Regulatory Agency:

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

NMOCD - District 2
811 S. First
Artesia, NM 88210

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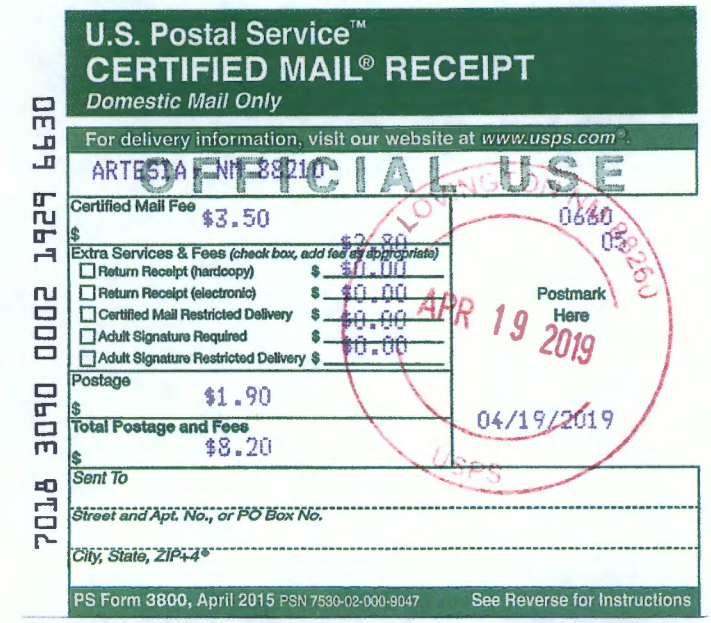
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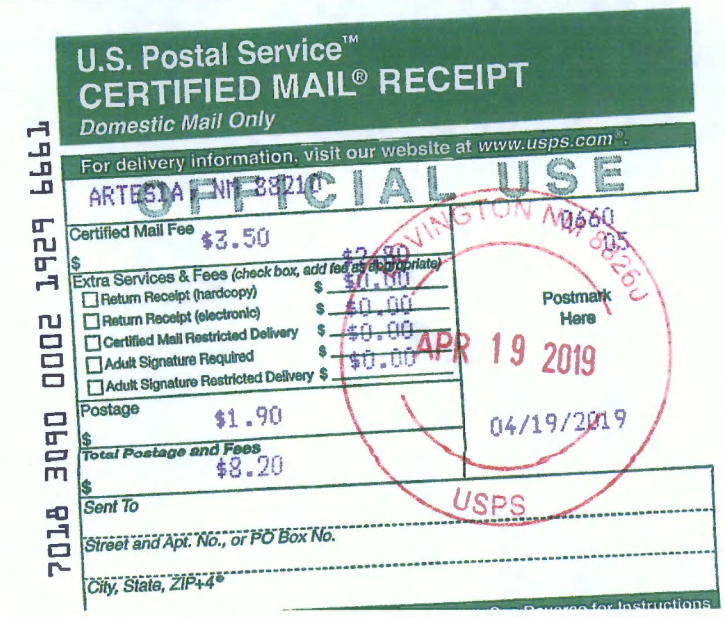
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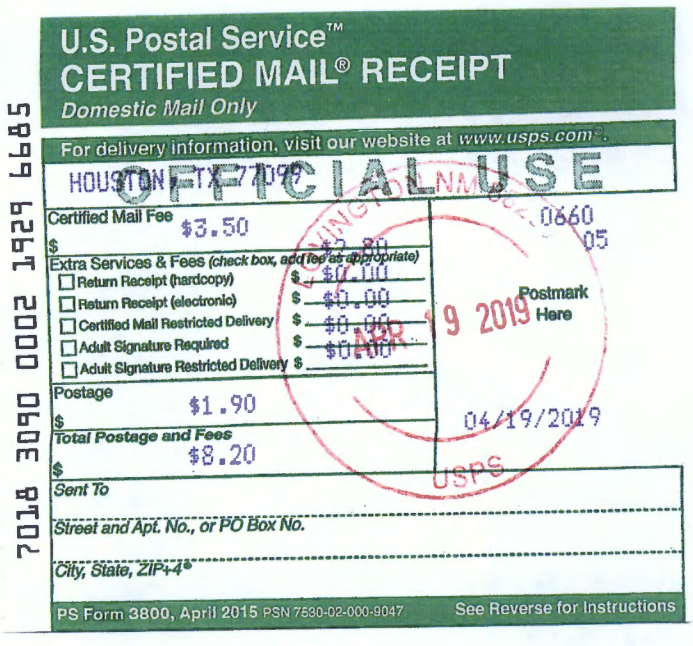
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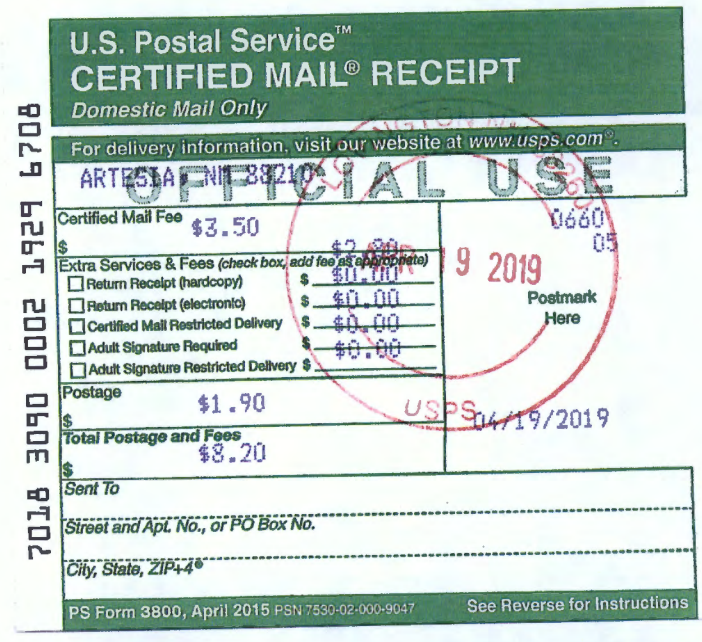
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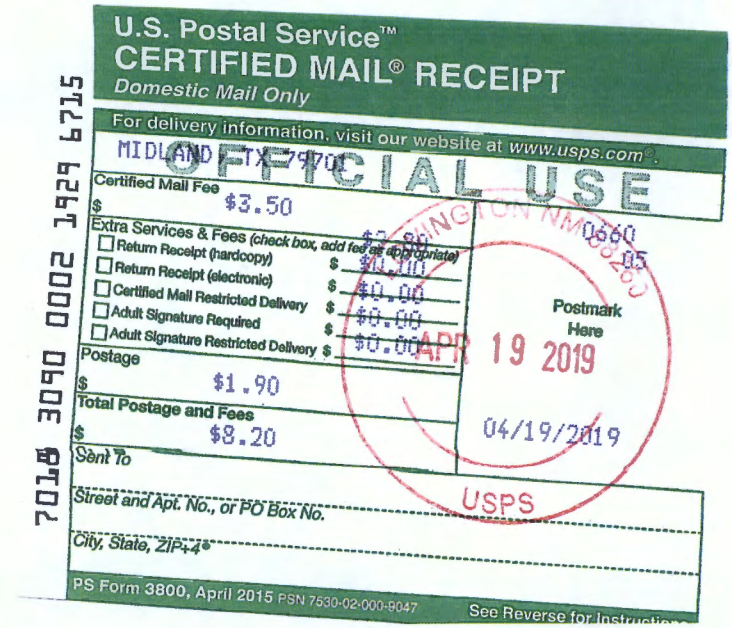
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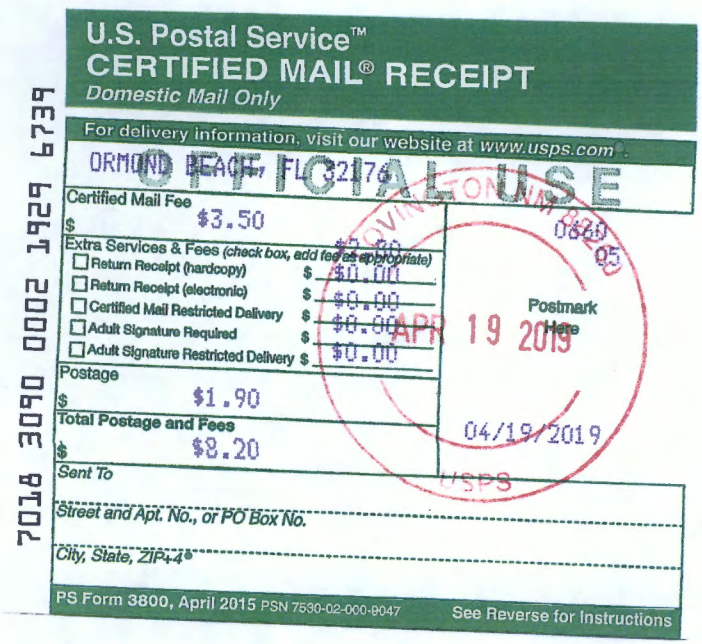
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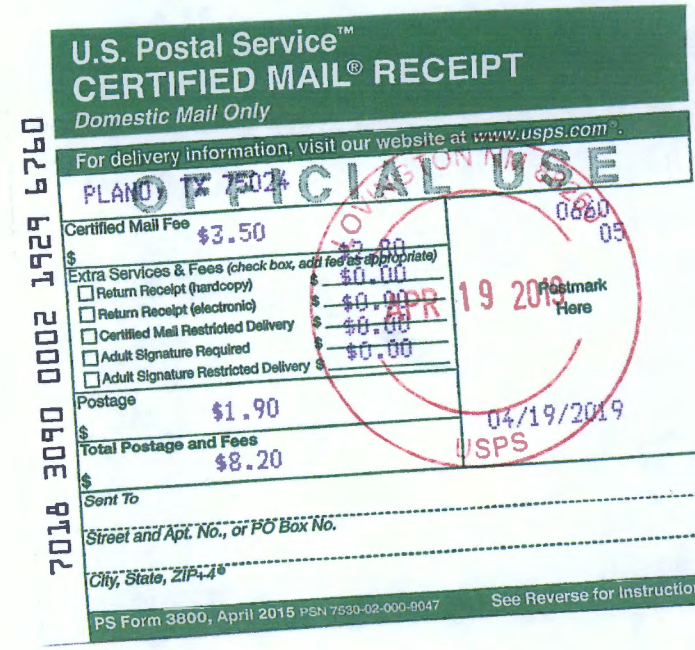
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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- Certified Mail Restricted Delivery $0.00
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Postage $1.90

Total Postage and Fees $8.20

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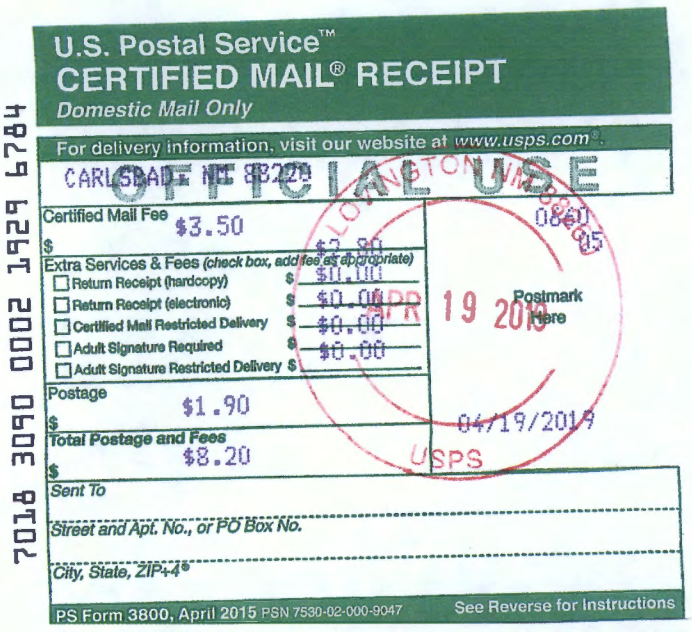
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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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For delivery information, visit our website at www.usps.com®.

CARLSBAD, NM 88220

OFFICIAL USE

Certified Mail Fee $3.50

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $1.90

Total Postage and Fees $8.20

Postmark Here
APR 19 2019
04/19/2019
USPS

Sent To

Street and Apt. No., or PO Box No.

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7018 3090 0002 1929 6784

April 8, 2019

NOTIFICATION TO INTERESTED PARTIES

Via U.S. Certified Mail - Return Receipt Requested

RE: Application for Authroization to Inject
Bounds SWD #1
Township 24S, Range 26E, N.M.P.M
Section 33, 820' FNL & 200' FWL
Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of a C-108 Application submitted by LilyStream Water Solutions, LLC, Lovington, New Mexico, to the New Mexico Oil Conservation Division to drill and complete for produced water disposal the Bounds SWD #1.

The well is located in Section 33, Township 24S, Range 26E, 820' FNL and 200' FWL, Eddy County, New Mexico.

As required by NMOCD, we are notifying you because you have been indentified as an operator or surface owner and therefor an affected party by this action. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

The well will be a commercial SWD well taking produced water from oil and gas operations in the surrounding area. Please contact Joel Lowry with Lowry Environmental and Associates, LLC, at 432.466.4450 , with any questions or concerns regarding this well or application.

Respectfully,

Joel Lowry

Joel W. Lowry
LOWRY
environmental

XIV. PROOF OF NOTICE

Affidavit of Publication

Attach Affidavit of Publication from editor

Copy of Publication

Legal Notice

LilyStream Water Solutions, LLC, 1308 W. Ave D, Lovington, NM 88260, is filing Form C-108 for an application for Authority to Inject with the New Mexico Oil and Conservation Division requesting administrative approval for a salt water disposal well. The proposed newly drilled well, the Bounds SWD No. 1 is located at 820' FNL & 200' FWL, Section 33, Township 24S Range 26E, N.M.P.M., Eddy County, New Mexico: approximately 17 miles Southwest of Carlsbad down National Parks Hwy and 3.5 Miles East on Creosote Road . (API # to be assigned). Produced water from area oil and gas producing wells will be commercially disposed into the Devonian and Silurian formations from 12,410' to 13,510' below surface. Expected maximum injection rate is 30,000 bpd, and the expected maximum injection pressure is 2,482 psi. Questions concerning the application can be directed to the applicant's agent Lowry Environmental, LLC, PO Box 948 Lovington, NM 88260, by phone (432) 466-4450 or email joel@lowryenvironmental.com. Objections or request for hearing must be directed to the Oil Conservation Division, (505) 476-3440, 1220 South Saint Francis Drive, Santa Fe, NM 87504, within 15 days.

Published in the Artesia Daily Press, Artesia, N.M., April 21, 2019 Legal No. 25084.

XIV. PROOF OF NOTICE

Affidavit of Publication

Affidavit of Publication

No. 25084

State of New Mexico

County of Eddy:

Danny Scott

being duly sworn saves that he is the **Publisher**

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

Legal Ad

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/day on the same day as follows:

First Publication	April 21, 2019
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	
Seventh Publication	

Subscribed and sworn before me this

22nd day of April 2019

OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO
My commission expires: 5/12/2019

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication

Legal Notice

LilyStream Water Solutions, LLC, 1308 W. Ave D, Lovington, NM 88260, is filing Form C-108 for an application for Authority to Inject with the New Mexico Oil and Conservation Division requesting administrative approval for a salt water disposal well. The proposed newly drilled well, the Bounds SWD No. 1 is located at 820' FNL & 200' FWL, Section 33, Township 24S Range 26E, N.M.P.M., Eddy County, New Mexico: approximately 17 miles Southwest of Carlsbad down National Parks Hwy and 3.5 Miles East on Creosote Road . (API # to be assigned). Produced water from area oil and gas producing wells will be commercially disposed into the Devonian and Silurian formations from 12,410' to 13,510' below surface. Expected maximum injection rate is 30,000 bpd, and the expected maximum injection pressure is 2,482 psi. Questions concerning the application can be directed to the applicant's agent Lowry Environmental, LLC, PO Box 948 Lovington, NM 88260, by phone (432) 466-4450 or email joel@lowryenvironmental.com. Objections or request for hearing must be directed to the Oil Conservation Division, (505) 476-3440, 1220 South Saint Francis Drive, Santa Fe, NM 87504, within 15 days.

Published in the Artesia Daily Press, Artesia, N.M., April 21, 2019 Legal No. 25084.

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Thursday, April 25, 2019 11:58 AM
To: 'joel@lowryenvironmental.com'
Subject: LilyStream Water Solutions, LLC Bounds SWD Well No. 1

Joel:
Your application for the LilyStream Water Solutions, LLC Bounds 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,

Bounds SWD #1

Joel Lowry
Environmental Professional

LOWRY environmental

PO Box 896
Lovington, NM 88260
Direct 432-466-4450

The content of this email may be confidential and/or privileged. If you are not the intended recipient, or an authorized representative of the intended recipient, please notify Lowry Environmental and delete this email from your system at your earliest convenience. Dissemination or copying of this email, its content or its attachments is prohibited.

XIV. PROOF OF NOTICE

Surface Owner:

Bounds Family Trust
1232 Black River Village Rd
Carlsbad, NM 88220
7018 3090 0002 1929 6784

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

EOG M Resources, Inc.
105 S. 4th St.
Artesia, NM 88210
7018 3090 0002 1929 6647

EOG Y Resources, Inc.
105 S 4th St.
Artesia, NM 88210
7018 3090 0002 1929 6661

EOG A Resources, Inc.
105 S. 4th St.
Artesia, NM 88210
7018 3090 0002 1929 6630

Oxy Y-1 Company
P.O. Box 27570
Houston, TX 77227
7018 3090 0002 1929 6678

Marathon Oil Permian LLC
5555 San Felipe St.
Houston, TX 77056
7018 3090 0002 1929 6753

Murchison Oil & Gas, LLC
7250 Dallas Parkway, Suite 1400
Plano, TX 75024
7018 3090 0002 1929 6746

Cimarex Energy Co.
600 N. Marienfeld Street, Suite 600
Midland, TX 79701
7018 3090 0002 1929 6616

Cimarex Energy Co. of Colorado
600 N. Marienfeld Street, Suite 600
Midland, TX 79701
7018 3090 0002 1929 6692

Chevron USA Inc.
6301 Deauville Blvd.
Midland, TX 79706
7018 3090 0002 1929 6777

Pearson Sibert Oil
901 W Missouri Ave
Midland, TX 79701
7018 3090 0002 1929 6715

Chevron USA Holdings Inc
11111 S Wilcrest
Houston, TX 77099
7018 3090 0002 1929 6685

Strong Dorothy June
709 Ocean Shore Blvd
Ormond Beach, FL 32176
7018 3090 0002 1929 6739

Osprey Oil & Gas LLC, a New Mexico
3323 N Midland Dr STE 113-130
Midland, TX 79707
7018 3090 0002 1929 6623

Bond Margaret Ann
1060 Edgewater Dr NW
Atlanta, GA 30328
7018 3090 0002 1929 6722

XIV. PROOF OF NOTICE

CXA Oil & Gas Holdings LP
6000 Legacy Dr
Plano, TX 75024
7018 3090 0002 1929 6760

Clifton Judy Pate Revocable Trust
703 Hamilton Landing Dr
Saint Simons Island, GA 31522
7018 3090 0002 1929

Regulatory Agency:

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

NMOCD - District 2
811 S. First
Artesia, NM 88210
7018 2620 0001 0352 0680

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 26, 2019

JOEL LOWRY

LOWRY ENVIROMENTAL & ASSOCIATES

PO BOX 296

LOVINGTON, NM 88260

RE: BOUNDS FAMILY 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.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	04/18/2019	Sampling Date:	04/16/2019
Reported:	04/26/2019	Sampling Type:	Water
Project Name:	BOUNDS FAMILY RANCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO NM		

Sample ID: BOUNDS HOME WELL (H901419-01)

Chloride, SM4500Cl-B mg/L **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	**24.0**	4.00	04/22/2019	ND	104	104	100	0.00	

TDS 160.1 mg/L **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	**1790**	5.00	04/24/2019	ND	558	106	527	18.3	

Sample ID: BOUNDS #2-1 (H901419-02)

Chloride, SM4500Cl-B mg/L **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	**20.0**	4.00	04/22/2019	ND	104	104	100	0.00	

TDS 160.1 mg/L **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	**1740**	5.00	04/24/2019	ND	558	106	527	18.3	

Sample ID: BOUNDS #2 & #4 (H901419-03)

Chloride, SM4500Cl-B mg/L **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	**24.0**	4.00	04/22/2019	ND	104	104	100	0.00	

TDS 160.1 mg/L **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	**1230**	5.00	04/24/2019	ND	558	106	527	18.3	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Lowry Environmental	**BILL TO**	
Project Manager:	Joel Lowry	**P.O. #:**	
Address:	PO Box 896	**Company:**	Lowry Env
City:	Lovington **State:**	**Zip:** #	**Attn:** Joel Lowry
Phone #:	432-466-4450 **Fax #:**		**Address:** PO Box 896
Project #:	**Project Owner:**		**City:**
Project Name:	Bounds Family Ranch		**State:** **Zip:**
Project Location:	Eddy Co, NM		**Phone #:**
Sampler Name:	Joel Lowry		**Fax #:**

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST										
Lab I.D.	**Sample I.D.**	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021	TDS									
H901419																										
1	Bounds Home Well	G	1	X							X		4/18/19	12:15	X			X								
2	Bounds #2-1	"	"	"							"		"	10:29	X			X								
3	Bounds #2 #4	"	"	"							"		"	10:42	X			X								

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Relinquished By: Joel Lowry	**Date:** 4/18/19 **Time:** 10:20	**Received By:** Martha Turner	**Phone Result:** ☐ Yes ☐ No	**Add'l Phone #:**
Relinquished By: Martha Turner	**Date:** 4/18/19 **Time:** 12:15	**Received By:** Jodi Henson	**Fax Result:** ☐ Yes ☐ No	**Add'l Fax #:**
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 0.6°C / #97	**Sample Condition** Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	**CHECKED BY:** (Initials)	**REMARKS:**	

FORM-006 R 2.0

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

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 26, 2019

JOEL LOWRY

LOWRY ENVIROMENTAL & ASSOCIATES

PO BOX 296

LOVINGTON, NM 88260

RE: F. BEARD

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.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	04/18/2019	Sampling Date:	04/16/2019
Reported:	04/26/2019	Sampling Type:	Water
Project Name:	F. BEARD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO NM		

Sample ID: F. BEARD HOUSE (H901420-01)

Chloride, SM4500Cl-B **mg/L** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	**20.0**	4.00	04/22/2019	ND	104	104	100	0.00	

TDS 160.1 **mg/L** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	**2080**	5.00	04/24/2019	ND	558	106	527	18.3	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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

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.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Lowry Environmental	**BILL TO**	
Project Manager:	Joel Lowry	**P.O. #:**	
Address:	PO Box 896	**Company:**	Lowry Env
City:	Lovington **State:** **Zip:** #	**Attn:**	Joel Lowry
Phone #:	432-466-4450 **Fax #:**	**Address:**	PO Box 896
Project #:	**Project Owner:**	**City:**	
Project Name:	F Beard	**State:** **Zip:**	
Project Location:	Eddy Co, NM	**Phone #:**	
Sampler Name:	Joel Lowry	**Fax #:**	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
Lab I.D.	**Sample I.D.**	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021	TDS							
H901420																									
1	F. Beard Home	G	1	X							X		4/18/19	10:15	X		X	X							

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Joel Lowry	**Date:** 4/18/19 **Time:** 10:30	**Received By:** Martha Turner	
Relinquished By: M Turner	**Date:** 4/18/19 **Time:** 12:15	**Received By:** Jodi Henson	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	0.6°C / #97	**Sample Condition** Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	**CHECKED BY:** (Initials)

Phone Result: ☐ Yes ☐ No **Add'l Phone #:**
Fax Result: ☐ Yes ☐ No **Add'l Fax #:**
REMARKS:

FORM-006 R 2.0

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

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Monday, May 20, 2019 11:26 AM
To: joel@lowryenvironmental.com
Subject: RE: LilyStream Water Solutions, LLC Bounds SWD Well No. 1

I did not see that the BLM was notified.

Therefore, your application is still in suspense until you provide proof of notice to them.

Mike

From: McMillan, Michael, EMNRD
Sent: Thursday, April 25, 2019 11:58 AM
To: 'joel@lowryenvironmental.com' <joel@lowryenvironmental.com>
Subject: LilyStream Water Solutions, LLC Bounds SWD Well No. 1

Joel:
Your application for the LilyStream Water Solutions, LLC Bounds 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: Wednesday, May 22, 2019 2:39 PM
To: McMillan, Michael, EMNRD
Subject: [EXT] RE: LilyStream Water Solutions, LLC - Add. Proof of Notice - Lucas SWD #1 through #3, Bounds SWD #1 through #3
Attachments: LilyStream Water Solutions - Add. Proof of Notice - BLM - Lucas SWD #3.pdf; LilyStream Water Solutions - Add. Proof of Notice - BLM - Bounds SWD #1.pdf; LilyStream Water Solutions - Add. Proof of Notice - BLM - Bounds SWD #2.pdf; LilyStream Water Solutions - Add. Proof of Notice - BLM - Bounds SWD #3.pdf; LilyStream Water Solutions - Add. Proof of Notice - BLM - Lucas SWD #1.pdf; LilyStream Water Solutions - Add. Proof of Notice - BLM - Lucas SWD #2.pdf

Mr. McMillan,

Please find attached the remaining proof of notice documentation for the Lucas SWD #1, Lucas SWD #2, Lucas SWD #3, Bounds SWD #1, Bounds SWD #2 and Bounds SWD #3. I apologize for inconvenience. Thanks.

Respectfully,

Joel Lowry
Environmental Professional
LOWRY environmental
PO Box 896
Lovington, NM 88260
Direct 432-466-4450

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From: McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>
Sent: Monday, May 20, 2019 11:39 AM
To: Joel Lowry <joel@lowryenvironmental.com>
Subject: RE: LilyStream Water Solutions, LLC Lucas SWD Well No. 2

I did not see that the BLM was notified.

Therefore, your application is still in suspense until you provide proof of notice to them.

Mike

From: McMillan, Michael, EMNRD
Sent: Thursday, April 25, 2019 11:29 AM
To: 'joel@lowryenvironmental.com' <joel@lowryenvironmental.com>
Subject: LilyStream Water Solutions, LLC Lucas SWD Well No. 2

Joel:
Your application for the LilyStream Water Solutions, LLC Lucas SWD Well No. 2 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

Bureau of Land Management
301 Dinosaur Trail
Santa Fe, NM 87508
7017 2620 0000 9987 2497



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SANTA FE, NM 87508

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Certified Mail Fee $3.50	$2.80
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage $2.20	
Total Postage and Fees $8.50	

0660 05

Postmark Here
MAY 22
05/22/2019

Sent To: BLM
Re Bounds #1
Street and Apt. No., or PO Box No.: 301 Dinosaur Trail
City, State, ZIP+4®: Santa Fe, NM 87508

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7017 2620 0000 9987 2497

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Wednesday, May 22, 2019 2:53 PM
To: Joel Lowry
Subject: RE: LilyStream Water Solutions, LLC - Add. Proof of Notice - Lucas SWD #1 through #3, Bounds SWD #1 through #3

Thank you for BLM notification
20-day clock will start today

Mike

From: Joel Lowry <joel@lowryenvironmental.com>
Sent: Wednesday, May 22, 2019 2:39 PM
To: McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>
Subject: [EXT] RE: LilyStream Water Solutions, LLC - Add. Proof of Notice - Lucas SWD #1 through #3, Bounds SWD #1 through #3

Mr. McMillan,

Please find attached the remaining proof of notice documentation for the Lucas SWD #1, Lucas SWD #2, Lucas SWD #3, Bounds SWD #1, Bounds SWD #2 and Bounds SWD #3. I apologize for inconvenience. Thanks.

Respectfully,

Joel Lowry
Environmental Professional

LOWRY environmental

PO Box 896
Lovington, NM 88260
Direct 432-466-4450

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From: McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>
Sent: Monday, May 20, 2019 11:39 AM
To: Joel Lowry <joel@lowryenvironmental.com>
Subject: RE: LilyStream Water Solutions, LLC Lucas SWD Well No. 2