



July 21, 2021

NMOCD Environmental Bureau  
1220 South St. Francis Drive  
Santa Fe, NM 87505

Re: Closure Request  
Pogo Resources Bagley SWD  
NMOCD Reference #: NRM1927360423

To Whom It May Concern

RXSoil, Inc. is pleased to submit the closure request summarizing work done for the remediation of produced water impacted soil for the above release.

Sincerely,

A stylized, handwritten signature in blue ink, appearing to read "Jace Caraway".

Jace Caraway  
Chief Operating Officer  
RXSoil, Inc.  
(940) 210-2051

A handwritten signature in black ink, appearing to read "Zach Robbins".

Zach Robbins  
Technical and Engineering Analyst  
RXSoil, Inc.  
(210) 400-7645

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RXSoil, Inc.

201 Main St. Ste. 1360, Fort Worth, TX 76102

## I. Introduction

On behalf of Pogo Resources, RXSoil, Inc. ("RXSoil") has prepared this closure request that describes remediation of the release at the Bagley SWD (Coordinates: 33.31528, -103.60083) in Eddy County with reference number NRM1927360423.

The C-141 is given in *Appendix A*.

The release occurred on 9/18/2019 in Unit Letter S, Section 34, Township 11S, Range 33E (see *Figure 1* for Vicinity Map) at approximate coordinates 33.31528, -103.60083. It was reported that 50 barrels of produced water were released, and 50 barrels of produced water were recovered during the initial response.

## II. Site Assessment/Characterization

1. **Site Map** – See *Figure 2*
2. **Depth to ground water** – Atkins Engineering was hired to determine groundwater at the site of the release. On 3/23/2020, an air rotor was used to drill down to 58' below ground surface (BGS) when the equipment stopped working. No groundwater was discovered at the time. On 3/27/2020 after allowing time to stabilize, water was discovered at 42.9' BGS. This remediation adhered to closure criteria for depth to groundwater of <50' BGS.
3. **Wellhead protection area** – There are no known water sources within a half mile of the release (see *Figure 3*).
4. **Distance to nearest significant watercourse** – There is no significant watercourse within a half-mile of any horizontal boundary of the release (see *Figure 3*).
5. **Soil/waste characteristics** – The release was delineated horizontally and vertically during excavation as described in the approved work plan. Excavation was guided by field data, testing soil samples until results showed chloride levels below 600 mg/kg, per 19.15.29.13.D.1. Sidewall and bottom sample locations are shown in *Figure 2*. Excavation continued until clean soil was found. Soil samples were submitted to Cardinal Laboratories in Hobbs, NM for confirmation. As approved in the initial work plan, TPH and BTEX was not present in any of the initial delineation samples and did not require further monitoring. Results from these tests are summarized in *Appendix B* with lab reports shown in *Appendix E*. Two sidewall sample areas were left above threshold, as described and approved in a variance request submitted 5/22/2020. The confirmation documentation requested in the response to this document is attached as *Appendix D*.

## III. Closure Reporting

1. **Scaled site and sampling diagram** – See *Figure 2* for excavation samples.
2. **Photographs of remediated site prior to backfill** – See *Appendix C* for photographs of the site prior to backfill and after reclamation.
3. **Laboratory analyses of final sampling** - See *Appendix E* for laboratory reports summarized in *Appendix B*.

RXSoil, Inc.

201 Main St. Ste. 1360, Fort Worth, TX 76102

4. **Description of all remedial activities** – Excavation of contaminated material began based on the area affected by the spill. Sidewall samples were collected representing 200 square feet and field screened for chlorides. Excavation continued until all field screenings tested below threshold (600 mg/kg chloride). Vertical excavation continued using the same process. Sample locations are shown in *Figure 2* while results are summarized in a table in *Appendix B*. Excavated soil was placed in the RXSoil treatment cell and treated with environmentally friendly chemicals to extract harmful salts. Samples were collected from the treatment cell at depths of 36-48" with each sample representing no more than 100 cubic yards. Samples were field tested and then confirmed at Cardinal Labs until all samples tested below the threshold of 600 mg/kg chloride. These results are summarized in *Appendix B*.

Sidewall and bottom samples were taken using a stainless-steel hand shovel while remediation samples were collected using a stainless-steel bucket auger. All tools were decontaminated before each sample, as specified in *Field Equipment Cleaning and Decontamination* (EPA, 2015). This includes wiping the equipment clean, water-rinsing the equipment, washing the equipment in detergent and water, and rinsing the equipment in water.

Samples were temporarily transferred to a new plastic bag in the field. Once in a location safer for handling glass, the samples were transferred to glass jars, supplied by an approved laboratory. The threads on all jars were wiped clean to allow an air-tight seal. Samples were transferred on ice to a third-party laboratory to ensure tests were completed within 14 days (as recommended in the EPA handbook).

All lab reports of sampling can be found in *Appendix EF*.

#### **IV. Restoration, Reclamation and Re-Vegetation**

Following removal of all contaminated soil, clean material was backfilled. All impacted areas were restored to match the rest of the location. On 4/19/2021, RXSoil returned to location to plant, as approved by the State Land Office, with an NMDOT seed blend to match native grasses. Reclamation pictures are shown in *Appendix C*.

On behalf of all parties, RXSoil is requesting no further action for this remediation project.

RXSoil, Inc.

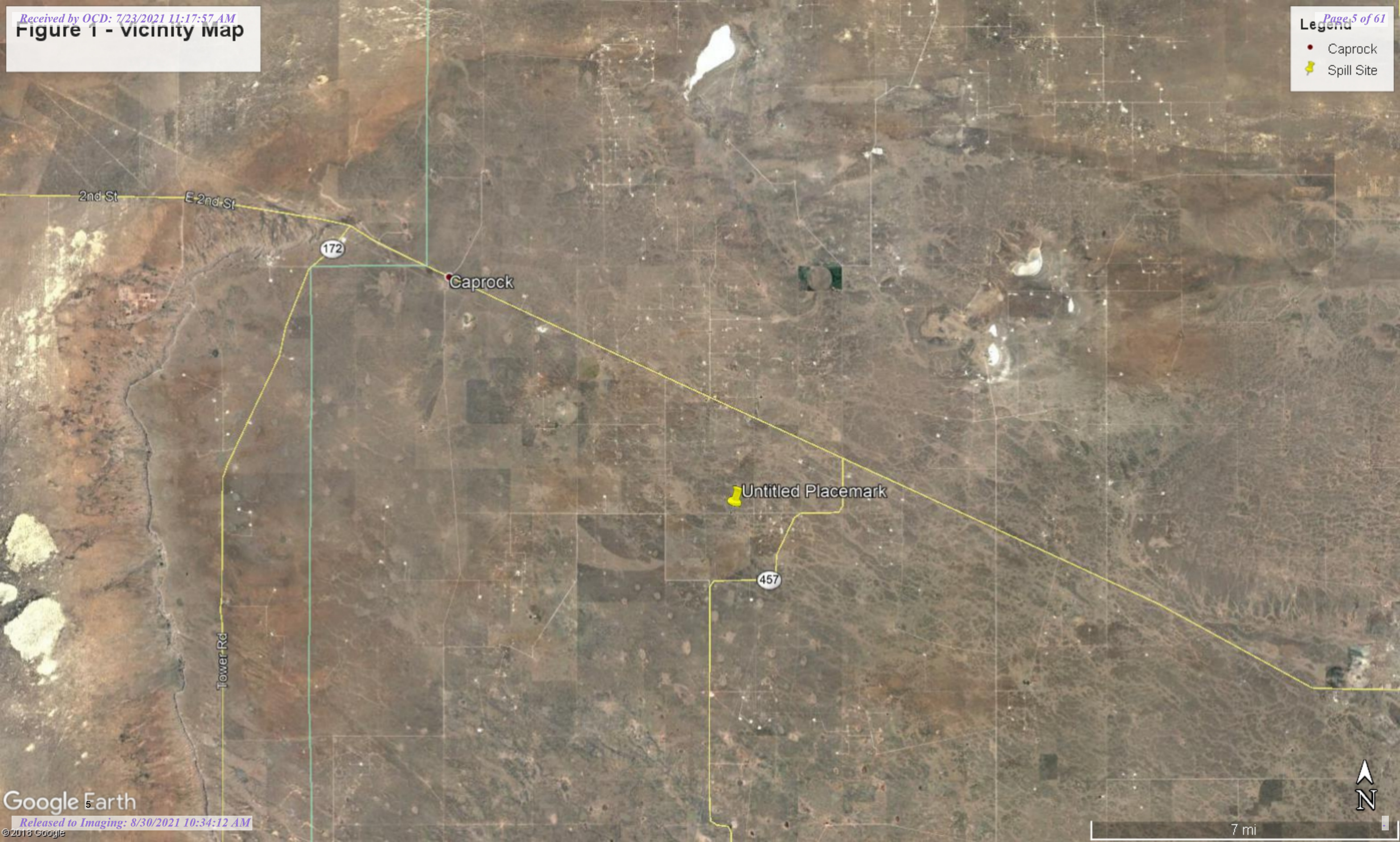
201 Main St. Ste. 1360, Fort Worth, TX 76102



Figure 1 - vicinity map

**Legend**

- Caprock
- Spill Site



North arrow pointing up with the letter 'N' below it.

Scale bar labeled '7 mi'.



Figure 2 - Site Map

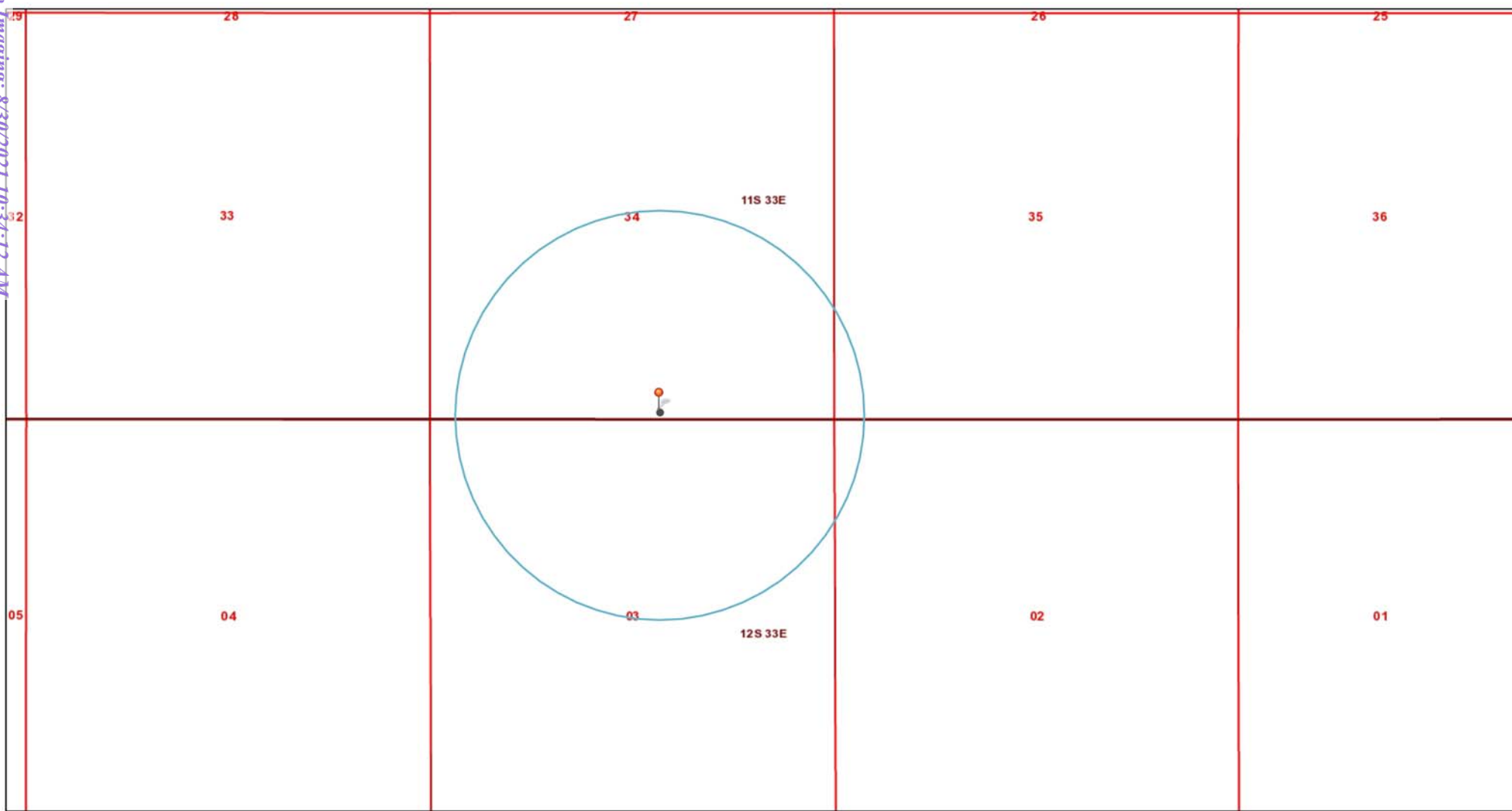
**Legend**

- 10' Excavation
- 14' Excavation
- 4' Excavation
- 6' Excavation
- Bottom Sample
- Sidewall Sample
- Telephone Pole



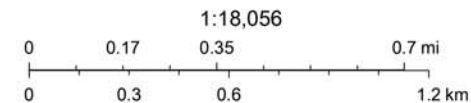


Figure 3 - Hydrology Map



11/1/2019, 5:03:59 PM

- 0.5 mile radius
- Spill Location
- OCD Districts
- OCD District Offices
- PLSS First Division
- PLSS Townships
- OSE Water-bodies
- PLJV Probable Playas
- OSE Streams



USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS

## **APPENDIX A**

**C-141**

**RXSoil, Inc.**

**201 Main St. Ste. 1360, Fort Worth, TX 76102**



Form C-141

State of New Mexico

Page 6

Oil Conservation Division

Incident ID	NRM1927360423
District RP	
Facility ID	
Application ID	

## Closure

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

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Nicholas Holbrook Title: COO  
 Signature: [Signature] Date: 7/22/2021  
 email: nick@pogoresources.com Telephone: 806-790-5547

### OCD Only

Received by: Chad Hensley Date: 08/30/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: [Signature] Date: 08/30/2021  
 Printed Name: Chad Hensley Title: Environmental Specialist Advanced

## **APPENDIX B**

### **SOIL DATA SUMMARY TABLE**

**RXSoil, Inc.**

**201 Main St. Ste. 1360, Fort Worth, TX 76102**



Soil Data Summary							
Sample Name	Sample Type	Depth (ft)	Sample Date	Received	Lab ID Sample	Chloride	
						Field Screening	Method 4500
ES-01	Sidewall	Sidewall	5/19/2020	5/19/2020	H001361-01	132	16
ES-02*	Sidewall	Sidewall	5/19/2020	5/19/2020	H001361-02	208	816
ES-02	Sidewall	Sidewall	5/20/2020	5/21/2020	H001390-01	-	320
ES-03	Sidewall	Sidewall	5/19/2020	5/19/2020	H001361-03	ND	32
ES-04	Sidewall	Sidewall	5/19/2020	5/19/2020	H001361-04	ND	368
ES-05	Sidewall	Sidewall	5/19/2020	5/19/2020	H001361-05	208	368
ES-06	Sidewall	Sidewall	5/19/2020	5/19/2020	H001361-06	268	96
ES-07	Sidewall	Sidewall	5/19/2020	5/19/2020	H001361-07	ND	144
ES-08	Sidewall	Sidewall	5/19/2020	5/19/2020	H001361-08	ND	<16.0
ES-09	Sidewall	Sidewall	5/19/2020	5/19/2020	H001361-09	180	368
ES-10	Sidewall	Sidewall	5/16/2020	5/18/2020	H001353-01	-	1550
ES-11	Sidewall	Sidewall	5/16/2020	5/18/2020	H001353-02	128	128
ES-12	Sidewall	Sidewall	5/16/2020	5/18/2020	H001353-03	160	160
ES-13	Sidewall	Sidewall	5/16/2020	5/18/2020	H001353-04	384	384
ES-14	Sidewall	Sidewall	5/16/2020	5/18/2020	H001353-05	48	48
ES-15	Sidewall	Sidewall	5/16/2020	5/18/2020	H001353-06	480	480
TELEPHONE POLE	Sidewall	Sidewall	5/21/2020	5/22/2020	H001404-01	-	3520
EB-01	Bottom	6	5/28/2020	5/28/2020	H001453-01	220	80
EB-02	Bottom	10	5/28/2020	5/28/2020	H001453-02	124	80
EB-03	Bottom	4	5/28/2020	5/28/2020	H001453-03	276	320
EB-04	Bottom	6	5/28/2020	5/28/2020	H001453-04	192	192
EB-05	Bottom	6	5/28/2020	5/28/2020	H001453-05	ND	32
EB-06	Bottom	4	5/28/2020	5/28/2020	H001453-06	ND	16
EB-07	Bottom	6	5/28/2020	5/28/2020	H001453-07	192	<16.0
EB-08	Bottom	14	5/28/2020	5/28/2020	H001453-08	192	128
EB-09	Bottom	14	5/28/2020	5/28/2020	H001453-09	220	208
EB-10	Bottom	14	5/28/2020	5/28/2020	H001453-10	248	112
EB-11	Bottom	14	5/28/2020	5/28/2020	H001453-11	220	144
A1	Remediation	3-4	6/24/2020	6/25/2020	H001669-01	-	272
A3	Remediation	3-4	6/24/2020	6/25/2020	H001669-02	-	336
A5	Remediation	3-4	6/24/2020	6/25/2020	H001669-03	-	368
A7	Remediation	3-4	6/24/2020	6/25/2020	H001669-04	-	416
C2	Remediation	3-4	6/18/2020	6/25/2020	H001669-05	-	400
C4	Remediation	3-4	6/24/2020	6/25/2020	H001669-06	-	368
C6	Remediation	3-4	6/24/2020	6/25/2020	H001669-07	-	352
C8	Remediation	3-4	6/24/2020	6/25/2020	H001669-08	-	416
E1	Remediation	3-4	6/18/2020	6/25/2020	H001669-09	-	320
E3	Remediation	3-4	6/24/2020	6/25/2020	H001669-10	-	432
E5	Remediation	3-4	6/24/2020	6/25/2020	H001669-11	-	320
E7	Remediation	3-4	6/24/2020	6/25/2020	H001669-12	-	320
G2	Remediation	3-4	6/24/2020	6/25/2020	H001669-13	-	240
G4	Remediation	3-4	6/24/2020	6/25/2020	H001669-14	-	224
G6	Remediation	3-4	6/24/2020	6/25/2020	H001669-15	-	240
G8	Remediation	3-4	6/24/2020	6/25/2020	H001669-16	-	272
I1	Remediation	3-4	6/18/2020	6/25/2020	H001669-17	-	256
I3	Remediation	3-4	6/24/2020	6/25/2020	H001669-18	-	240
I5	Remediation	3-4	6/24/2020	6/25/2020	H001669-19	-	224
I7	Remediation	3-4	6/24/2020	6/25/2020	H001669-20	-	288
J2	Remediation	3-4	6/18/2020	6/25/2020	H001669-21	-	272
J4	Remediation	3-4	6/24/2020	6/25/2020	H001669-22	-	352
J6	Remediation	3-4	6/24/2020	6/25/2020	H001669-23	-	240
J8	Remediation	3-4	6/18/2020	6/25/2020	H001669-24	-	320
L1	Remediation	3-4	6/18/2020	6/25/2020	H001669-25	-	288
L3	Remediation	3-4	6/18/2020	6/25/2020	H001669-26	-	320
L5	Remediation	3-4	6/18/2020	6/25/2020	H001669-27	-	256
L7	Remediation	3-4	6/24/2020	6/25/2020	H001669-28	-	256
N2	Remediation	3-4	6/24/2020	6/25/2020	H001669-29	-	224
N4	Remediation	3-4	6/24/2020	6/25/2020	H001669-30	-	224
N6	Remediation	3-4	6/24/2020	6/25/2020	H001669-31	-	240
N8	Remediation	3-4	6/24/2020	6/25/2020	H001669-32	-	240
P1	Remediation	3-4	6/24/2020	6/25/2020	H001669-33	-	320
P3	Remediation	3-4	6/24/2020	6/25/2020	H001669-34	-	304
P5	Remediation	3-4	6/24/2020	6/25/2020	H001669-35	-	304
P7	Remediation	3-4	6/24/2020	6/25/2020	H001669-36	-	288
R2	Remediation	3-4	6/24/2020	6/25/2020	H001669-37	-	288
R4	Remediation	3-4	6/24/2020	6/25/2020	H001669-38	-	304
R6	Remediation	3-4	6/24/2020	6/25/2020	H001669-39	-	288
R8	Remediation	3-4	6/24/2020	6/25/2020	H001669-40	-	272
NMOCD Thresholds							600

All results reported in mg/kg unless otherwise noted

Bold datapoints are above threshold

- indicate no test was run

\* indicates an iterative sample and further excavation was conducted

**APPENDIX C**  
**SITE PHOTOGRAPHS**

**RXSoil, Inc.**  
**201 Main St. Ste. 1360, Fort Worth, TX 76102**





RXSoil, Inc.  
201 Main St. Ste. 1360, Fort Worth, TX 76102

**APPENDIX D**

**VARIANCE DOCUMENTATION**

RXSoil, Inc.  
201 Main St. Ste. 1360, Fort Worth, TX 76102



**zach.robbins@Rxsoil.solutions**

---

**From:** Diane Campbell <dcampbell@leacounty.net>  
**Sent:** Wednesday, August 19, 2020 10:04 AM  
**To:** zach.robbins@rxsoil.solutions  
**Subject:** RE: RXSoil - Remediation Near Bagley Road

I can confirm that there was verbal communication in regards to Bagley Field that Nick requested to stay 5' away from Bagley Field Road. I do not have anything in email. Nick is out of the office until next week. He may have something. Please let me know if this email works for you.

Thank You

*Diane Campbell*  
*Administrative Coordinator*  
*Lea County Road Department*  
[dcampbell@leacounty.net](mailto:dcampbell@leacounty.net)  
575-391-2940  
Fax 575-392-6904

---

**From:** zach.robbins@rxsoil.solutions [mailto:zach.robbins@rxsoil.solutions]  
**Sent:** Wednesday, August 19, 2020 8:58 AM  
**To:** Diane Campbell <dcampbell@leacounty.net>  
**Subject:** RE: RXSoil - Remediation Near Bagley Road

**\*\*\*CAUTION:** This email originated from outside of Lea County. Do not click on links or open attachments unless you recognize the sender and know the content is safe.\*\*\*

Good morning,

The state has requested documentation confirming that the road department had requested RXSoil halt excavation 5' away from Bagley Field Rd on this remediation project. Are you able to confirm this?

Please reach out if there are any questions.

Thank you,  
Zach

**Zach Robbins | Technical and Engineering Analyst | RXSoil, Inc.**  
Cell: 210-400-7645 | [zach.robbins@rxsoil.solutions](mailto:zach.robbins@rxsoil.solutions)

---

**From:** [zach.robbins@rxsoil.solutions](mailto:zach.robbins@rxsoil.solutions) <[zach.robbins@rxsoil.solutions](mailto:zach.robbins@rxsoil.solutions)>  
**Sent:** Wednesday, May 27, 2020 2:28 PM

To: [dcampbell@leacounty.net](mailto:dcampbell@leacounty.net)

Subject: RXSoil - Remediation Near Bagley Road

Good afternoon,

I have been in touch with Nick regarding our cleanup efforts near Bagley Road in between Tatum and Caprock. We have stopped excavation 5' away from the road as requested and set up barricades and warning signs. I have attached a recent image of the site.

Please let me know if there is anything else I can provide. I will keep you updated when we are able to backfill.

Thanks,  
Zach

**Zach Robbins | Technical and Engineering Analyst | RXSoil, Inc.**

201 Main Street, Suite 1360, Fort Worth, Texas 76102

Cell: 210-400-7645

[zach.robbs@rxsoil.solutions](mailto:zach.robbs@rxsoil.solutions)

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This email has been scanned for spam and viruses by Proofpoint Essentials. Click [here](#) to report this email as spam.



**From:** [SSealy@lcecnecnet.com](mailto:SSealy@lcecnecnet.com)  
**To:** [zach.robbs@rxsoil.solutions](mailto:zach.robbs@rxsoil.solutions)  
**Subject:** Re: RXSOIL - Bagley Field Road - Excavation Request  
**Date:** Monday, August 10, 2020 7:19:58 AM  
**Attachments:** [Untitled attachment 01509.jiff](#)  
[Drone Image - Remaining Soil.PNG](#)

---

Yes Sir, I am able to confirm that the excavation was stopped by us due to compromised safety by digging to close to the electrical line. Digging any further could have undermined the pole causing the line to come down on personal in the area of the excavation causing injury or death.

Thank you,

Shilo Sealy  
Safety & Compliance Coordinator  
Office: (575) 396-3631 ext 176  
Cell : (575) 390-2249

**Lea County Electric Cooperative, Inc.**



**From:** zach.robbs@rxsoil.solutions  
**To:** <ssealy@lcecnecnet.com>  
**Date:** 08/04/2020 09:49 AM  
**Subject:** RXSOIL - Bagley Field Road - Excavation Request {External E-mail}{Suspicious URL}

---

Hi Shilo,

Thanks for your time on the phone.

As discussed just now and prior to digging, our intended excavation would have compromised safety by digging too close to the electrical line.

We excavated to within 15' of the line. Upon a representative from Lea County Electric being on-site, we were able to safely dig to 12' before being asked to stop. Excavation was halted for safety

reasons.

Are you able to confirm this for our reporting?

Thanks,  
Zach

**Zach Robbins | Technical and Engineering Analyst | RXSoil, Inc.**

**201 Main Street, Suite 1360, Fort Worth, Texas 76102**

**Cell: 210-400-7645**

**[zach.robbs@rxsoil.solutions](mailto:zach.robbs@rxsoil.solutions)**

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**APPENDIX E**

**LABORATORY REPORTS**

RXSoil, Inc.  
201 Main St. Ste. 1360, Fort Worth, TX 76102





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

---

May 19, 2020

HAYES ADAMS

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: POGO

Enclosed are the results of analyses for samples received by the laboratory on 05/18/20 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
 HAYES ADAMS  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 05/18/2020  
 Reported: 05/19/2020  
 Project Name: POGO  
 Project Number: TATUM, NM  
 Project Location: BAGLEY FIELD

Sampling Date: 05/16/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: ES -10 (H001353-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	05/19/2020	ND	400	100	400	3.92	

**Sample ID: ES -11 (H001353-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/19/2020	ND	400	100	400	3.92	

**Sample ID: ES -12 (H001353-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/19/2020	ND	400	100	400	3.92	

**Sample ID: ES -13 (H001353-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/19/2020	ND	400	100	400	3.92	

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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
 HAYES ADAMS  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 05/18/2020  
 Reported: 05/19/2020  
 Project Name: POGO  
 Project Number: TATUM, NM  
 Project Location: BAGLEY FIELD

Sampling Date: 05/16/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: ES -14 (H001353-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/19/2020	ND	400	100	400	3.92	

**Sample ID: ES -15 (H001353-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	05/19/2020	ND	400	100	400	3.92	

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.

Celey D. Keene, Lab Director/Quality Manager





---

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---

### 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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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.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

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Celey D. Keene, Lab Director/Quality Manager

5 jo 5 eba



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>RX Soil</b>		P.O. #:		BILL TO												ANALYSIS REQUEST																									
Project Manager: <b>Hayes Adams</b>		Company:																																							
Address:		Attn:																																							
City:		Address:																																							
Phone #: <b>817-253-6100</b>		Fax #:																																							
Project #:		City:																																							
Project Name: <b>Pogo</b>		State:																																							
Project Location: <b>Tatum, NM</b>		Zip:																																							
Sampler Name: <b>Hayes Adams</b>		Phone #:																																							
Fax #:		City:																																							
FOR LAB USE ONLY		PRESERV:																																							
		SAMPLING																																							
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													
H001353		ES-10																												CHLORIDES											
1		ES-11																																							
2		ES-12																																							
3		ES-13																																							
4		ES-14																																							
5		ES-15																																							
6																																									
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 data, 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:		Date: <b>5-18-20</b>		Received By:		Date: <b>5-18-20</b>		Time: <b>1450</b>		Time: <b>1450</b>		Time: <b>1450</b>		Time: <b>1450</b>		Time: <b>1450</b>		Time: <b>1450</b>		Time: <b>1450</b>		Time: <b>1450</b>		Time: <b>1450</b>		Time: <b>1450</b>													
Relinquished By:		Received By:		Date: <b>5-18-20</b>		Date: <b>5-18-20</b>		Date: <b>5-18-20</b>		Date: <b>5-18-20</b>		Date: <b>5-18-20</b>		Date: <b>5-18-20</b>		Date: <b>5-18-20</b>		Date: <b>5-18-20</b>		Date: <b>5-18-20</b>		Date: <b>5-18-20</b>		Date: <b>5-18-20</b>		Date: <b>5-18-20</b>		Date: <b>5-18-20</b>													
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:		Standard		Bacteria (only)		Sample Condition		Observed Temp. °C		Corrected Temp. °C		Corrected Temp. °C		Corrected Temp. °C		Corrected Temp. °C		Corrected Temp. °C		Corrected Temp. °C													
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		Yes		Thermometer ID #		Rush		Cool Intact		Observed Temp. °C		Corrected Temp. °C		Corrected Temp. °C		Corrected Temp. °C		Corrected Temp. °C		Corrected Temp. °C		Corrected Temp. °C		Corrected Temp. °C													
FORM 006-R-3.0		Corrected Temp. °C		Cool Intact		Yes		Thermometer ID #		Rush		Cool Intact		Observed Temp. °C		Corrected Temp. °C		Corrected Temp. °C		Corrected Temp. °C		Corrected Temp. °C		Corrected Temp. °C		Corrected Temp. °C		Corrected Temp. °C													

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

May 19, 2020

HAYES ADAMS

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: POGO

Enclosed are the results of analyses for samples received by the laboratory on 05/19/20 11:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

RX-SOIL INC.  
 HAYES ADAMS  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 05/19/2020  
 Reported: 05/19/2020  
 Project Name: POGO  
 Project Number: TATUM, NM  
 Project Location: BAGLEY FIELD

Sampling Date: 05/19/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES -1 (H001361-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/19/2020	ND	416	104	400	3.77	

**Sample ID: ES -2 (H001361-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	05/19/2020	ND	416	104	400	3.77	

**Sample ID: ES -3 (H001361-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/19/2020	ND	416	104	400	3.77	

**Sample ID: ES -4 (H001361-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/19/2020	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 HAYES ADAMS  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 05/19/2020  
 Reported: 05/19/2020  
 Project Name: POGO  
 Project Number: TATUM, NM  
 Project Location: BAGLEY FIELD

Sampling Date: 05/19/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES -5 (H001361-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	05/19/2020	ND	416	104	400	3.77		

**Sample ID: ES -6 (H001361-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/19/2020	ND	416	104	400	3.77	

**Sample ID: ES -7 (H001361-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/19/2020	ND	416	104	400	0.00	

**Sample ID: ES -8 (H001361-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/19/2020	ND	416	104	400	0.00	

**Sample ID: ES -9 (H001361-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/19/2020	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### 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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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



5 jo 5 eba



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>RX Soil</b>		P.O. #:		BILL TO												ANALYSIS REQUEST															
Project Manager: <b>Hayer Adams</b>		Company:																													
Address:		Attn:																													
City:		State:		Zip:																											
Phone #: <b>817-253-6100</b>		Fax #:		Address:																											
Project #:		City:		State:		Zip:																									
Project Name: <b>Pogo</b>		Phone #:																													
Project Location: <b>Tatum, NM</b>		Fax #:																													
Sampler Name: <b>Hayer Adams</b>																															
FOR LAB USE ONLY																															
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			
<b>H001361</b>		<b>ES-1</b>																													
<b>2</b>		<b>ES-2</b>																													
<b>3</b>		<b>ES-3</b>																													
<b>4</b>		<b>ES-4</b>																													
<b>5</b>		<b>ES-5</b>																													
<b>6</b>		<b>ES-6</b>																													
<b>7</b>		<b>ES-7</b>																													
<b>8</b>		<b>ES-8</b>																													
<b>9</b>		<b>ES-9</b>																													
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: <b>NE</b>		Date: <b>5/19-20</b>		Received By: <b>Jamara Adams</b>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																					
Relinquished By: <b>NE</b>		Date: <b>5/19-20</b>		Received By: <b>Jamara Adams</b>		All Results are emailed. Please provide Email address:																									
Delivered By: (Circle One)		Observed Temp. °C <b>5.1</b>		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:		Standard <b>Rush</b>		Bacteria (only) Sample Condition		Cool Intact		Observed Temp. °C															
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>5.1</b>		Thermometer ID #97				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Corrected Temp. °C															
FORM 006 R3.0																															

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

May 21, 2020

HAYES ADAMS

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: POGO

Enclosed are the results of analyses for samples received by the laboratory on 05/21/20 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
 HAYES ADAMS  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 05/21/2020  
 Reported: 05/21/2020  
 Project Name: POGO  
 Project Number: TATUM, NM  
 Project Location: BAGLEY FIELD

Sampling Date: 05/20/2020  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 2 (H001390-01)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>320</b>	16.0	05/21/2020	ND	432	108	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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### 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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Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

---

Celey D. Keene, Lab Director/Quality Manager





# BILL TO

## ANALYSIS REQUEST

[illegible]



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

May 22, 2020

HAYES ADAMS

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: POGO

Enclosed are the results of analyses for samples received by the laboratory on 05/21/20 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
 HAYES ADAMS  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 05/21/2020  
 Reported: 05/22/2020  
 Project Name: POGO  
 Project Number: TATUM, NM  
 Project Location: BAGLEY FIELD

Sampling Date: 05/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: TELEPHONE POLE (H001404-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	05/22/2020	ND	416	104	400	0.00		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### 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 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.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

May 29, 2020

HAYES ADAMS

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: POGO

Enclosed are the results of analyses for samples received by the laboratory on 05/28/20 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
 HAYES ADAMS  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 05/28/2020  
 Reported: 05/29/2020  
 Project Name: POGO  
 Project Number: POGO BAGLEY  
 Project Location: BAGLEY FIELD

Sampling Date: 05/28/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: EB 1 (H001453-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/29/2020	ND	416	104	400	0.00	

**Sample ID: EB 2 (H001453-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/29/2020	ND	416	104	400	0.00	

**Sample ID: EB 3 (H001453-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/29/2020	ND	416	104	400	0.00	

**Sample ID: EB 4 (H001453-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/29/2020	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 HAYES ADAMS  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 05/28/2020  
 Reported: 05/29/2020  
 Project Name: POGO  
 Project Number: POGO BAGLEY  
 Project Location: BAGLEY FIELD

Sampling Date: 05/28/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: EB 5 (H001453-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/29/2020	ND	416	104	400	0.00	

**Sample ID: EB 6 (H001453-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/29/2020	ND	416	104	400	0.00	

**Sample ID: EB 7 (H001453-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/29/2020	ND	416	104	400	0.00		

**Sample ID: EB 8 (H001453-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/29/2020	ND	416	104	400	0.00	

**Sample ID: EB 9 (H001453-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/29/2020	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

RX-SOIL INC.  
 HAYES ADAMS  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 05/28/2020  
 Reported: 05/29/2020  
 Project Name: POGO  
 Project Number: POGO BAGLEY  
 Project Location: BAGLEY FIELD

Sampling Date: 05/28/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: EB 10 (H001453-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/29/2020	ND	416	104	400	0.00	

**Sample ID: EB 11 (H001453-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/29/2020	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager

L jo 9 eba



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>RX Soil</b>		P.O. #:		BILL TO												ANALYSIS REQUEST																									
Project Manager: <b>Hayes Adams</b>		Company:																																							
Address:		Attn:																																							
City:		State:		Zip:																																					
Phone #: <b>682-244-0904</b>		Fax #:		Address:																																					
Project #:		Project Owner:		City:		State:		Zip:																																	
Project Name: <b>Potato Bagley</b>		Project Location: <b>Potato Bagley Tatum</b>		Phone #:																																					
Sampler Name: <b>Hayes Adams</b>		Fax #:																																							
FOR LAB USE ONLY																																									
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													
H001453																														Chloride											
1 EB 1																																									
2 EB 2																																									
3 EB 3																																									
4 EB 4																																									
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8 EB 8																																									
9 EB 9																																									
10 EB 10																																									

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Relinquished By: <b>Hayes Adams</b>		Date: <b>8-28-20</b>		Received By: <b>14</b>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
Relinquished By:		Time: <b>1610</b>		Date:		All Results are emailed. Please provide Email address:	
Delivered By: (Circle One)		Observed Temp. °C <b>3.5</b>		Sample Condition		CHECKED BY: (Initials) <b>HS</b>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition	
FORM-006-R30				Turnaround Time: <b>Standard</b>		Thermometer ID # <b>4113</b>	
				Correction Factor +0.4°C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
						Observed Temp. °C	
						Corrected Temp. °C	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabsnm.com



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





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

---

June 29, 2020

MATTHEW LONGCRIER

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: POGO

Enclosed are the results of analyses for samples received by the laboratory on 06/25/20 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 06/25/2020  
 Reported: 06/29/2020  
 Project Name: POGO  
 Project Number: NONE GIVEN  
 Project Location: BAGLEY FIELD

Sampling Date: 06/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A 1 (H001669-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/26/2020	ND	416	104	400	0.00	

**Sample ID: A 3 (H001669-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/26/2020	ND	416	104	400	0.00	

**Sample ID: A 5 (H001669-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	06/26/2020	ND	416	104	400	0.00	

**Sample ID: A 7 (H001669-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/26/2020	ND	416	104	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 06/25/2020  
 Reported: 06/29/2020  
 Project Name: POGO  
 Project Number: NONE GIVEN  
 Project Location: BAGLEY FIELD

Sampling Date: 06/18/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: C 2 (H001669-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	06/26/2020	ND	416	104	400	0.00	

**Sample ID: C 4 (H001669-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	06/26/2020	ND	416	104	400	0.00	

**Sample ID: C 6 (H001669-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/26/2020	ND	416	104	400	0.00	

**Sample ID: C 8 (H001669-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/26/2020	ND	416	104	400	0.00	

**Sample ID: E 1 (H001669-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/26/2020	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 06/25/2020  
 Reported: 06/29/2020  
 Project Name: POGO  
 Project Number: NONE GIVEN  
 Project Location: BAGLEY FIELD

Sampling Date: 06/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E 3 (H001669-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	06/26/2020	ND	416	104	400	0.00	

**Sample ID: E 5 (H001669-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/26/2020	ND	416	104	400	0.00	

**Sample ID: E 7 (H001669-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/26/2020	ND	416	104	400	0.00	

**Sample ID: G 2 (H001669-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/26/2020	ND	416	104	400	0.00	

**Sample ID: G 4 (H001669-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/26/2020	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 06/25/2020  
 Reported: 06/29/2020  
 Project Name: POGO  
 Project Number: NONE GIVEN  
 Project Location: BAGLEY FIELD

Sampling Date: 06/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: G 6 (H001669-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/26/2020	ND	416	104	400	0.00	

**Sample ID: G 8 (H001669-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	06/26/2020	ND	416	104	400	0.00		

**Sample ID: I 1 (H001669-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	06/26/2020	ND	416	104	400	0.00		

**Sample ID: I 3 (H001669-18)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/26/2020	ND	416	104	400	0.00	

**Sample ID: I 5 (H001669-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/26/2020	ND	416	104	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 06/25/2020  
 Reported: 06/29/2020  
 Project Name: POGO  
 Project Number: NONE GIVEN  
 Project Location: BAGLEY FIELD

Sampling Date: 06/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: I 7 (H001669-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/26/2020	ND	416	104	400	0.00	

**Sample ID: J 2 (H001669-21)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	06/29/2020	ND	416	104	400	0.00		

**Sample ID: J 4 (H001669-22)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	06/29/2020	ND	416	104	400	0.00		

**Sample ID: J 6 (H001669-23)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/29/2020	ND	416	104	400	0.00	

**Sample ID: J 8 (H001669-24)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/29/2020	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 06/25/2020  
 Reported: 06/29/2020  
 Project Name: POGO  
 Project Number: NONE GIVEN  
 Project Location: BAGLEY FIELD

Sampling Date: 06/18/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: L 1 (H001669-25)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	06/29/2020	ND	416	104	400	0.00		

**Sample ID: L 3 (H001669-26)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/29/2020	ND	416	104	400	0.00	

**Sample ID: L 5 (H001669-27)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	06/29/2020	ND	416	104	400	0.00		

**Sample ID: L 7 (H001669-28)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	06/29/2020	ND	416	104	400	0.00		

**Sample ID: N 2 (H001669-29)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/29/2020	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 06/25/2020  
 Reported: 06/29/2020  
 Project Name: POGO  
 Project Number: NONE GIVEN  
 Project Location: BAGLEY FIELD

Sampling Date: 06/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: N 4 (H001669-30)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	06/29/2020	ND	416	104	400	3.77		

**Sample ID: N 6 (H001669-31)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	06/29/2020	ND	416	104	400	3.77		

**Sample ID: N 8 (H001669-32)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	06/29/2020	ND	416	104	400	3.77		

**Sample ID: P 1 (H001669-33)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	06/29/2020	ND	416	104	400	3.77		

**Sample ID: P 3 (H001669-34)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/29/2020	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 06/25/2020  
 Reported: 06/29/2020  
 Project Name: POGO  
 Project Number: NONE GIVEN  
 Project Location: BAGLEY FIELD

Sampling Date: 06/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: P 5 (H001669-35)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/29/2020	ND	416	104	400	3.77	

**Sample ID: P 7 (H001669-36)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/29/2020	ND	416	104	400	3.77	

**Sample ID: R 2 (H001669-37)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/29/2020	ND	416	104	400	3.77	

**Sample ID: R 4 (H001669-38)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	06/29/2020	ND	416	104	400	3.77		

**Sample ID: R 6 (H001669-39)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/29/2020	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 06/25/2020  
 Reported: 06/29/2020  
 Project Name: POGO  
 Project Number: NONE GIVEN  
 Project Location: BAGLEY FIELD

Sampling Date: 06/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: R 8 (H001669-40)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	06/29/2020	ND	416	104	400	3.77		

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### 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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A handwritten signature in cursive script, appearing to read "C. D. Keene", written in black ink.

---

Celey D. Keene, Lab Director/Quality Manager

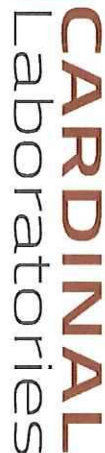




# BILL TO

## ANALYSIS REQUEST

Company Name: K&S, Inc.		P.O. #:		BILL TO										ANALYSIS REQUEST													
Project Manager: Matt Longoria		Company:																									
Address:		Attn:																									
City:		State:		Zip:																							
Phone #:		Fax #:		Address:																							
Project #:		City:		State:		Zip:																					
Project Name: Pogo		Phone #:																									
Project Location:		Fax #:																									
Sampler Name: Nate																											
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING															
								GROUNDWATER																			
								WASTEWATER																			
								SOIL																			
								OIL																			
								SLUDGE																			
								OTHER :																			
								ACID/BASE:																			
								ICE / COOL																			
								OTHER :																			
								DATE		TIME																	
H001609		1 A1						6/24		12:00				Chlorides													
2 A3								6/24																			
3 A5								6/24																			
4 A7								6/24																			
5 C2								6/24																			
6 C4								6/24																			
7 C6								6/24																			
8 C8								6/24																			
9 E1								6/18																			
10 E3								6/24		12:00																	
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Relinquished By: [Signature]		Date: 6/25		Received By: [Signature]		Date: 6/25		Time: 12:00		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:															
Relinquished By: [Signature]		Date: 6/25		Received By: [Signature]		Date: 6/25		Time: 12:00		All Results are emailed. Please provide Email address:																	
Delivered By: (Circle One)		Observed Temp. °C -0.8		Corrected Temp. °C		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>		CHECKED BY: [Signature]		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/>															
Sampler - UPS - Bus - Other:		Corrected Temp. °C				Cool <input type="checkbox"/> Intact <input type="checkbox"/>				Thermometer ID #113		Correction Factor None															



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>							
<b>Project Manager:</b>	<b>Address:</b>	<b>P.O. #:</b>									
<b>City:</b>	<b>State:</b>	<b>Attn:</b>									
<b>Phone #:</b>	<b>Fax #:</b>	<b>Address:</b>									
<b>Project #:</b>	<b>Project Owner:</b>	<b>City:</b>									
<b>Project Name:</b>	<b>State:</b>	<b>Zip:</b>									
<b>Project Location:</b>	<b>Phone #:</b>										
<b>Sampler Name:</b>	<b>Fax #:</b>										
<b>FOR LAB USE ONLY</b>		<b>MATRIX</b>		<b>PRESERV.</b>		<b>SAMPLING</b>					
<b>Lab I.D.</b>	<b>Sample I.D.</b>	(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER			
						SOIL		OIL			
						SLUDGE		OTHER :			
						ACID/BASE:		ICE / COOL			
						OTHER :					
						DATE		TIME			
H001469						6/24		12:00		Chloride	
31 N6											
32 N8											
33 P1											
34 P3											
35 P5											
36 P7											
37 K2											
38 R4											
39 R6											
40 R8											
<small>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.</small>											
<b>Relinquished By:</b>	<b>Date:</b>	<b>Received By:</b>									
	6/25										
<b>Time:</b>	17:00	<b>Received By:</b>									
<b>Relinquished By:</b>	<b>Date:</b>	<b>Received By:</b>									
<b>Time:</b>		<b>REMARKS:</b>									
<b>Delivered By: (Circle One)</b>	<b>Observed Temp. °C</b>	<b>-0.8</b>	<b>Sample Condition</b>	<b>CHECKED BY:</b>	<b>(Initials)</b>	<b>Turnaround Time:</b>	<b>Standard</b>	<b>Add'l Phone #:</b>	<b>Bacteria (only)</b>	<b>Sample Condition</b>	<b>Corrected Temp. °C</b>
<b>UPS - Bus - Other:</b>	<b>Corrected Temp. °C</b>		<b>Cool</b> <input checked="" type="checkbox"/> <b>Intact</b> <input checked="" type="checkbox"/>				<b>Rush</b> <input checked="" type="checkbox"/>		<b>Cool</b> <input type="checkbox"/> <b>Intact</b> <input type="checkbox"/>	<b>Observed Temp. °C</b>	<b>Corrected Temp. °C</b>
			<b>No</b> <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/>						<b>No</b> <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/>		
			<b>No</b> <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/>						<b>No</b> <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/>		

**END OF REPORT**

**RXSoil, Inc.**

**201 Main St. Ste. 1360, Fort Worth, TX 76102**



**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 37730

**CONDITIONS**

Operator: RXSoil, Inc. 201 Main St Ste 1360 Fort Worth, TX 76102	OGRID: 329578
	Action Number: 37730
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
chensley	None	8/30/2021