



November 4, 2020

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

Re: Closure Request  
Cimarex Energy Co. Forty Niner Ridge 23 Federal #001H  
NMOCD Reference #: nRM2014958679

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 black ink.

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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## I. Introduction

On behalf of Cimarex Energy Co., RXSoil, Inc. ("RXSoil") has prepared this closure request that describes remediation of the release at the Forty Niner Ridge 23 Federal #001H tank battery (Coordinates: 32.28411, -103.84491) in Eddy County with reference number nRM2014958679.

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

## II. Site Assessment/Characterization

1. **Spill Map** – See *Figure 2*
2. **Depth to ground water** – There are no water wells with data within a half mile (see *Figure 3*). The area was determined to have a high karst potential, therefore thresholds used were for ground water depth <50 feet.
3. **Wellhead protection area** – There are no known water sources within a half mile of the release.
4. **Distance to nearest significant watercourse** – There are no significant watercourses within a half mile of the release.
5. **Soil/waste characteristics** – The release was delineated horizontally and vertically during excavation. 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 samples are shown in *Figure 5*. Excavation went vertically and horizontally until clean soil was found (600 mg/kg chloride per field testing). Soil samples were submitted to Cardinal Laboratories and tested for chlorides, TPH and BTEX. All samples tested below Table 1 thresholds for projects with depth to groundwater <50'. Results from these tests are summarized in *Appendix B* with the laboratory report shown in *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.
3. **Laboratory analyses of final sampling** - See *Appendix D* for laboratory reports summarized in *Appendix B*.
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*.

Sidewall and bottom samples were taken using a stainless-steel hand shovel. 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.

RXSoil, Inc.

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

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 D*.

#### **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 padsite.

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

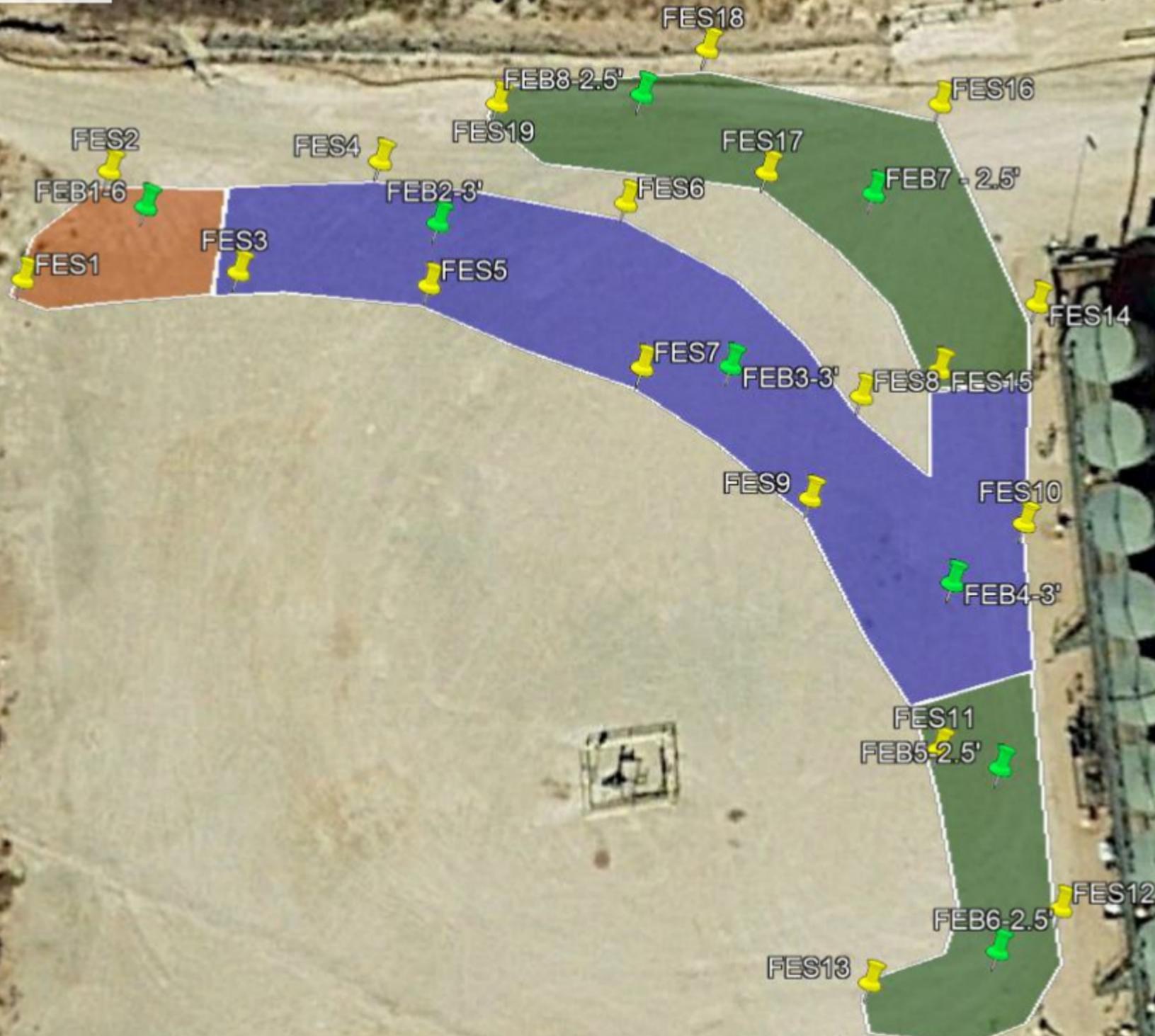


# Figure 2 - Site Sampling Map

Sample location and depth to clean soil

**Legend**

- 2.5' Depth
- 3' Depth
- 6' Depth
- Bottom Samples
- Sidewall Samples



# Figure 3 - Water Well Map

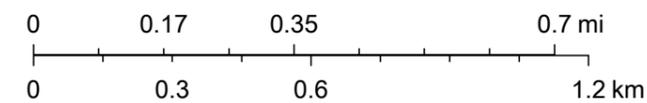


11/2/2020, 8:36:17 AM

GIS WATERS PODs

- Pending
- OSE District Boundary
- SiteBoundaries

1:18,056



USDA FSA, GeoEye, Maxar, Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC

**APPENDIX A**

**C-141**

**RXSoil, Inc.**

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

Incident ID	nRM2014958679
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>105</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

**Characterization Report Checklist:** *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nRM2014958679
District RP	
Facility ID	
Application ID	

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.

Printed Name: Gloria Garza Title: ESH Specialist

Signature: *gloria garza* Date: 11/4/2020

email: ggarza@cimarex.com Telephone: 432.234.3204

**OCD Only**

Received by: Cristina Eads Date: 11/04/2020

Incident ID	nRM2014958679
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: Gloria Garza Title: ESH Specialist  
 Signature: *gloria garza* Date: 11/4/2020  
 email: ggarza@cimarex.com Telephone: 432.234.3204

**OCD Only**

Received by: Cristina Eads Date: 11/04/2020

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: *Cristina Eads* Date: 01/22/2021  
 Printed Name: Cristina Eads Title: Environmental Specialist

**APPENDIX B**  
**DATA SUMMARY TABLE**

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

Excavation Data - Cimarex Forty Niner															
Sample ID	Sample Type	Depth (ft)	Sample Date	Analyzed Date (Latest)	Chloride		BTEX (8021B)					TPH (8015M)			
					Field Strip	M4500	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	C6-C35
FES 1	Sidewall	-	10/23/2020	10/26/2020	ND	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 2	Sidewall	-	10/23/2020	10/26/2020	ND	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 3	Sidewall	-	10/23/2020	10/26/2020	148	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 4	Sidewall	-	10/23/2020	10/26/2020	ND	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 5	Sidewall	-	10/23/2020	10/26/2020	ND	48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 6	Sidewall	-	10/23/2020	10/26/2020	ND	48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 7	Sidewall	-	10/23/2020	10/26/2020	ND	48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 8	Sidewall	-	10/23/2020	10/26/2020	ND	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 9	Sidewall	-	10/23/2020	10/26/2020	316	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 10	Sidewall	-	10/23/2020	10/26/2020	ND	64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 11	Sidewall	-	10/23/2020	10/26/2020	ND	64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 12	Sidewall	-	10/23/2020	10/26/2020	184	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 13	Sidewall	-	10/23/2020	10/26/2020	268	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 14	Sidewall	-	10/23/2020	10/26/2020	268	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 15	Sidewall	-	10/23/2020	10/26/2020	ND	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 16	Sidewall	-	10/23/2020	10/26/2020	184	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 17	Sidewall	-	10/23/2020	10/27/2020	ND	64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 18	Sidewall	-	10/23/2020	10/27/2020	ND	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FES 19	Sidewall	-	10/23/2020	10/27/2020	148	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FEB 1	Bottom	6	10/23/2020	10/27/2020	ND	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FEB 2	Bottom	3	10/23/2020	10/27/2020	ND	64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FEB 3	Bottom	3	10/23/2020	10/27/2020	ND	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FEB 4	Bottom	3	10/23/2020	10/27/2020	ND	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FEB 5	Bottom	2.5	10/23/2020	10/27/2020	ND	48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FEB 6	Bottom	2.5	10/23/2020	10/27/2020	ND	48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FEB 7	Bottom	2.5	10/23/2020	10/27/2020	ND	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
FEB 8	Bottom	2.5	10/23/2020	10/27/2020	ND	96.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
BF	Backfill	-	10/24/2020	10/27/2020	-	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
<b>NMOCD Thresholds</b>						<b>600</b>	<b>10</b>				<b>50</b>				<b>100</b>

**BOLD** results indicate results above RRAL

ND indicates "non-detectable" results that were below method limitations

All units in mg/kg unless otherwise noted

**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**  
**LABORATORY REPORT**

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



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

October 28, 2020

JACE CARAWAY

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: FORTY NINER

Enclosed are the results of analyses for samples received by the laboratory on 10/23/20 16:14.

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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 1 (H002834-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78	
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86	
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38	
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28	
Total BTEX	<0.300	0.300	10/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.3-129

Chloride, SM4500Cl-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	10/26/2020	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2020	ND	213	106	200	5.43	
DRO >C10-C28*	<10.0	10.0	10/26/2020	ND	178	88.9	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	10/26/2020	ND					

Surrogate: 1-Chlorooctane 122 % 44.3-144

Surrogate: 1-Chlorooctadecane 127 % 42.2-156

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.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 2 (H002834-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78		
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38		
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28		
Total BTEX	<0.300	0.300	10/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.3-129

Chloride, SM4500CI-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	10/26/2020	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/26/2020	ND	213	106	200	5.43		
DRO >C10-C28*	<10.0	10.0	10/26/2020	ND	178	88.9	200	2.44		
EXT DRO >C28-C36	<10.0	10.0	10/26/2020	ND						

Surrogate: 1-Chlorooctane 131 % 44.3-144

Surrogate: 1-Chlorooctadecane 139 % 42.2-156

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.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 3 (H002834-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78		
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38		
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28		
Total BTEX	<0.300	0.300	10/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/26/2020	ND	213	106	200	5.43		
DRO >C10-C28*	<10.0	10.0	10/26/2020	ND	178	88.9	200	2.44		
EXT DRO >C28-C36	<10.0	10.0	10/26/2020	ND						

Surrogate: 1-Chlorooctane 115 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

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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.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 4 (H002834-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78		
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38		
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28		
Total BTEX	<0.300	0.300	10/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

Chloride, SM4500CI-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	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/26/2020	ND	213	106	200	5.43		
DRO >C10-C28*	<10.0	10.0	10/26/2020	ND	178	88.9	200	2.44		
EXT DRO >C28-C36	<10.0	10.0	10/26/2020	ND						

Surrogate: 1-Chlorooctane 144 % 44.3-144

Surrogate: 1-Chlorooctadecane 151 % 42.2-156

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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.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 5 (H002834-05)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78		
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38		
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28		
Total BTEX	<0.300	0.300	10/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/26/2020	ND	213	106	200	5.43		
DRO >C10-C28*	<10.0	10.0	10/26/2020	ND	178	88.9	200	2.44		
EXT DRO >C28-C36	<10.0	10.0	10/26/2020	ND						

Surrogate: 1-Chlorooctane 136 % 44.3-144

Surrogate: 1-Chlorooctadecane 140 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 6 (H002834-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78		
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38		
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28		
Total BTEX	<0.300	0.300	10/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/26/2020	ND	213	106	200	5.43		
DRO >C10-C28*	<10.0	10.0	10/26/2020	ND	178	88.9	200	2.44		
EXT DRO >C28-C36	<10.0	10.0	10/26/2020	ND						

Surrogate: 1-Chlorooctane 141 % 44.3-144

Surrogate: 1-Chlorooctadecane 145 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 7 (H002834-07)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78		
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38		
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28		
Total BTEX	<0.300	0.300	10/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/26/2020	ND	213	106	200	5.43		
DRO >C10-C28*	<10.0	10.0	10/26/2020	ND	178	88.9	200	2.44		
EXT DRO >C28-C36	<10.0	10.0	10/26/2020	ND						

Surrogate: 1-Chlorooctane 133 % 44.3-144

Surrogate: 1-Chlorooctadecane 135 % 42.2-156

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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 8 (H002834-08)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78		
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38		
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28		
Total BTEX	<0.300	0.300	10/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.3-129

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	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/26/2020	ND	213	106	200	5.43		
DRO >C10-C28*	<10.0	10.0	10/26/2020	ND	178	88.9	200	2.44		
EXT DRO >C28-C36	<10.0	10.0	10/26/2020	ND						

Surrogate: 1-Chlorooctane 126 % 44.3-144

Surrogate: 1-Chlorooctadecane 130 % 42.2-156

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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 9 (H002834-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78	
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86	
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38	
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28	
Total BTEX	<0.300	0.300	10/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/26/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2020	ND	213	106	200	5.43	
DRO >C10-C28*	<10.0	10.0	10/26/2020	ND	178	88.9	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	10/26/2020	ND					

Surrogate: 1-Chlorooctane 130 % 44.3-144

Surrogate: 1-Chlorooctadecane 134 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 10 (H002834-10)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78		
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38		
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28		
Total BTEX	<0.300	0.300	10/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/26/2020	ND	213	106	200	5.43		
DRO >C10-C28*	<10.0	10.0	10/26/2020	ND	178	88.9	200	2.44		
EXT DRO >C28-C36	<10.0	10.0	10/26/2020	ND						

Surrogate: 1-Chlorooctane 134 % 44.3-144

Surrogate: 1-Chlorooctadecane 138 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 11 (H002834-11)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78		
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38		
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28		
Total BTEX	<0.300	0.300	10/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/26/2020	ND	213	106	200	5.43		
DRO >C10-C28*	<10.0	10.0	10/26/2020	ND	178	88.9	200	2.44		
EXT DRO >C28-C36	<10.0	10.0	10/26/2020	ND						

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 42.2-156

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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.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 12 (H002834-12)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78		
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38		
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28		
Total BTEX	<0.300	0.300	10/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/26/2020	ND	213	106	200	5.43		
DRO >C10-C28*	<10.0	10.0	10/26/2020	ND	178	88.9	200	2.44		
EXT DRO >C28-C36	<10.0	10.0	10/26/2020	ND						

Surrogate: 1-Chlorooctane 124 % 44.3-144

Surrogate: 1-Chlorooctadecane 128 % 42.2-156

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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 13 (H002834-13)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78		
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38		
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28		
Total BTEX	<0.300	0.300	10/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/26/2020	ND	213	106	200	5.43		
DRO >C10-C28*	<10.0	10.0	10/26/2020	ND	178	88.9	200	2.44		
EXT DRO >C28-C36	<10.0	10.0	10/26/2020	ND						

Surrogate: 1-Chlorooctane 123 % 44.3-144

Surrogate: 1-Chlorooctadecane 128 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 14 (H002834-14)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78	
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86	
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38	
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28	
Total BTEX	<0.300	0.300	10/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/26/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2020	ND	213	106	200	5.43	
DRO >C10-C28*	<10.0	10.0	10/26/2020	ND	178	88.9	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	10/26/2020	ND					

Surrogate: 1-Chlorooctane 135 % 44.3-144

Surrogate: 1-Chlorooctadecane 139 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 15 (H002834-15)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78		
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38		
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28		
Total BTEX	<0.300	0.300	10/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

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	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/26/2020	ND	213	106	200	5.43		
DRO >C10-C28*	<10.0	10.0	10/26/2020	ND	178	88.9	200	2.44		
EXT DRO >C28-C36	<10.0	10.0	10/26/2020	ND						

Surrogate: 1-Chlorooctane 130 % 44.3-144

Surrogate: 1-Chlorooctadecane 135 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 16 (H002834-16)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78		
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38		
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28		
Total BTEX	<0.300	0.300	10/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>176</b>	16.0	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/26/2020	ND	213	106	200	5.43		
DRO >C10-C28*	<10.0	10.0	10/26/2020	ND	178	88.9	200	2.44		
EXT DRO >C28-C36	<10.0	10.0	10/26/2020	ND						

Surrogate: 1-Chlorooctane 129 % 44.3-144

Surrogate: 1-Chlorooctadecane 132 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 17 (H002834-17)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78		
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38		
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28		
Total BTEX	<0.300	0.300	10/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/27/2020	ND	215	107	200	1.77		
DRO >C10-C28*	<10.0	10.0	10/27/2020	ND	209	104	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	10/27/2020	ND						

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 18 (H002834-18)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/26/2020	ND	2.18	109	2.00	4.78		
Toluene*	<0.050	0.050	10/26/2020	ND	2.09	105	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	2.06	103	2.00	6.38		
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.87	97.9	6.00	6.28		
Total BTEX	<0.300	0.300	10/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

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	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/27/2020	ND	215	107	200	1.77		
DRO >C10-C28*	<10.0	10.0	10/27/2020	ND	209	104	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	10/27/2020	ND						

Surrogate: 1-Chlorooctane 120 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FES 19 (H002834-19)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2020	ND	1.96	98.2	2.00	8.08		
Toluene*	<0.050	0.050	10/27/2020	ND	1.90	94.8	2.00	8.15		
Ethylbenzene*	<0.050	0.050	10/27/2020	ND	1.87	93.4	2.00	7.40		
Total Xylenes*	<0.150	0.150	10/27/2020	ND	5.35	89.2	6.00	7.10		
Total BTEX	<0.300	0.300	10/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>192</b>	16.0	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/27/2020	ND	215	107	200	1.77		
DRO >C10-C28*	<10.0	10.0	10/27/2020	ND	209	104	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	10/27/2020	ND						

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FEB 1 - 6' (H002834-20)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2020	ND	1.96	98.2	2.00	8.08		
Toluene*	<0.050	0.050	10/27/2020	ND	1.90	94.8	2.00	8.15		
Ethylbenzene*	<0.050	0.050	10/27/2020	ND	1.87	93.4	2.00	7.40		
Total Xylenes*	<0.150	0.150	10/27/2020	ND	5.35	89.2	6.00	7.10		
Total BTEX	<0.300	0.300	10/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500CI-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	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/27/2020	ND	215	107	200	1.77		
DRO >C10-C28*	<10.0	10.0	10/27/2020	ND	209	104	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	10/27/2020	ND						

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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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.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FEB 2 - 3' (H002834-21)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2020	ND	1.96	98.2	2.00	8.08		
Toluene*	<0.050	0.050	10/27/2020	ND	1.90	94.8	2.00	8.15		
Ethylbenzene*	<0.050	0.050	10/27/2020	ND	1.87	93.4	2.00	7.40		
Total Xylenes*	<0.150	0.150	10/27/2020	ND	5.35	89.2	6.00	7.10		
Total BTEX	<0.300	0.300	10/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/27/2020	ND	215	107	200	1.77		
DRO >C10-C28*	<10.0	10.0	10/27/2020	ND	209	104	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	10/27/2020	ND						

Surrogate: 1-Chlorooctane 124 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FEB 3 - 3' (H002834-22)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2020	ND	1.96	98.2	2.00	8.08		
Toluene*	<0.050	0.050	10/27/2020	ND	1.90	94.8	2.00	8.15		
Ethylbenzene*	<0.050	0.050	10/27/2020	ND	1.87	93.4	2.00	7.40		
Total Xylenes*	<0.150	0.150	10/27/2020	ND	5.35	89.2	6.00	7.10		
Total BTEX	<0.300	0.300	10/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500CI-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	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/27/2020	ND	215	107	200	1.77		
DRO >C10-C28*	<10.0	10.0	10/27/2020	ND	209	104	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	10/27/2020	ND						

Surrogate: 1-Chlorooctane 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FEB 4 - 3' (H002834-23)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2020	ND	1.96	98.2	2.00	8.08		
Toluene*	<0.050	0.050	10/27/2020	ND	1.90	94.8	2.00	8.15		
Ethylbenzene*	<0.050	0.050	10/27/2020	ND	1.87	93.4	2.00	7.40		
Total Xylenes*	<0.150	0.150	10/27/2020	ND	5.35	89.2	6.00	7.10		
Total BTEX	<0.300	0.300	10/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>80.0</b>	16.0	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/27/2020	ND	215	107	200	1.77		
DRO >C10-C28*	<10.0	10.0	10/27/2020	ND	209	104	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	10/27/2020	ND						

Surrogate: 1-Chlorooctane 122 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FEB 5 - 2.5' (H002834-24)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2020	ND	1.96	98.2	2.00	8.08		
Toluene*	<0.050	0.050	10/27/2020	ND	1.90	94.8	2.00	8.15		
Ethylbenzene*	<0.050	0.050	10/27/2020	ND	1.87	93.4	2.00	7.40		
Total Xylenes*	<0.150	0.150	10/27/2020	ND	5.35	89.2	6.00	7.10		
Total BTEX	<0.300	0.300	10/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/27/2020	ND	215	107	200	1.77		
DRO >C10-C28*	<10.0	10.0	10/27/2020	ND	209	104	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	10/27/2020	ND						

Surrogate: 1-Chlorooctane 119 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FEB 6 - 2.5' (H002834-25)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2020	ND	1.96	98.2	2.00	8.08		
Toluene*	<0.050	0.050	10/27/2020	ND	1.90	94.8	2.00	8.15		
Ethylbenzene*	<0.050	0.050	10/27/2020	ND	1.87	93.4	2.00	7.40		
Total Xylenes*	<0.150	0.150	10/27/2020	ND	5.35	89.2	6.00	7.10		
Total BTEX	<0.300	0.300	10/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/27/2020	ND	215	107	200	1.77		
DRO >C10-C28*	<10.0	10.0	10/27/2020	ND	209	104	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	10/27/2020	ND						

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FEB 7 - 2.5' (H002834-26)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2020	ND	1.96	98.2	2.00	8.08		
Toluene*	<0.050	0.050	10/27/2020	ND	1.90	94.8	2.00	8.15		
Ethylbenzene*	<0.050	0.050	10/27/2020	ND	1.87	93.4	2.00	7.40		
Total Xylenes*	<0.150	0.150	10/27/2020	ND	5.35	89.2	6.00	7.10		
Total BTEX	<0.300	0.300	10/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

Chloride, SM4500CI-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	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/27/2020	ND	215	107	200	1.77		
DRO >C10-C28*	<10.0	10.0	10/27/2020	ND	209	104	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	10/27/2020	ND						

Surrogate: 1-Chlorooctane 116 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: FEB 8 - 2.5' (H002834-27)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2020	ND	1.96	98.2	2.00	8.08		
Toluene*	<0.050	0.050	10/27/2020	ND	1.90	94.8	2.00	8.15		
Ethylbenzene*	<0.050	0.050	10/27/2020	ND	1.87	93.4	2.00	7.40		
Total Xylenes*	<0.150	0.150	10/27/2020	ND	5.35	89.2	6.00	7.10		
Total BTEX	<0.300	0.300	10/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/27/2020	ND	215	107	200	1.77		
DRO >C10-C28*	<10.0	10.0	10/27/2020	ND	209	104	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	10/27/2020	ND						

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/28/2020	Sampling Type:	Soil
Project Name:	FORTY NINER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Yvonne Muniz
Project Location:	CIMAREX		

**Sample ID: BF - COMP. (H002834-28)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2020	ND	1.96	98.2	2.00	8.08		
Toluene*	<0.050	0.050	10/27/2020	ND	1.90	94.8	2.00	8.15		
Ethylbenzene*	<0.050	0.050	10/27/2020	ND	1.87	93.4	2.00	7.40		
Total Xylenes*	<0.150	0.150	10/27/2020	ND	5.35	89.2	6.00	7.10		
Total BTEX	<0.300	0.300	10/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

Chloride, SM4500CI-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	10/26/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/27/2020	ND	215	107	200	1.77		
DRO >C10-C28*	<10.0	10.0	10/27/2020	ND	209	104	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	10/27/2020	ND						

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 42.2-156

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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

Notes and Definitions

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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 SM450Cl-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*

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

Company Name: <b>RXSG1</b>		P.O. #:		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>					
Project Manager: <b>Jace Casaway</b>		Company:									
Address:		Attn:		Address:							
City:		State:		Zip:							
Phone #:		Fax #:		City:							
Project #:		Project Owner:		State:							
Project Name: <b>Cimarex</b>		City:		Zip:							
Project Location: <b>Fortyniner</b>		Phone #:		Fax #:							
Sampler Name: <b>JL</b>		FOR LAB USE ONLY		DATE							
Lab I.D.		Sample I.D.		TIME							
<b>H002834</b>		1 FES 1		10/25		X TPH					
2 FES 2		3 FES 3				X BTEX					
4 FES 4		5 FES 5				X Chlorides					
6 FES 6		7 FES 7									
8 FES 8		9 FES 9									
9 FES 9		10 FES 10									
10 FES 10											

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Relinquished By: _____	Date: <b>10/23/20</b>	Received By: <b>WYSENE</b>	Date: <b>10:14</b>
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <b>YJ</b>
Turnaround Time:	Thermometer ID #113	Standard <b>Rush</b>	Bacteria (only) Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
REMARKS:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	Sample Condition Observed Temp. °C Corrected Temp. °C

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>RXSAI</b>		P.O. #:		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>					
Project Manager: <b>Jace Caraway</b>		Company:									
Address:		City:		State:		Zip:		Attn:		Address:	
Phone #:		Fax #:		Project Owner:		City:		State:		Zip:	
Project #:		Project Location: <b>Cimarex forty niner</b>		Phone #:		Fax #:		Date:		Time:	
Sample Name: <b>IC</b>		FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING		DATE	
Lab I.D. <b>H602834</b>		Sample I.D.		GROUNDWATER		ACID/BASE:		DATE		TIME	
11 FES 11		C		WASTEWATER		ICE / COOL		X		X	
12 FES 12		C		SOIL		OTHER :		X		X	
13 FES 13		C		OIL		OTHER :		X		X	
14 FES 14		C		SLUDGE		OTHER :		X		X	
15 FES 15		C		OTHER :		OTHER :		X		X	
16 FES 16		C		OTHER :		OTHER :		X		X	
17 FES 17		C		OTHER :		OTHER :		X		X	
18 FES 18		C		OTHER :		OTHER :		X		X	
19 FES 19		C		OTHER :		OTHER :		X		X	

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Reinquinshed By: _____	Date: <b>10/23/20</b>	Received By: <b>Yvonne Muri-z</b>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Reinquinshed By: _____	Date: <b>10/14</b>	Received By: _____	All Results are emailed. Please provide Email address:	

REMARKS:

Delivered By: (Circle One)  UPS - Bus - Other:  Corrected Temp. °C **-1.4**

Sample Condition Cool Intact  Yes  No

Checked By: **mm**

Turnaround Time: **Standard**  **Rush**

Bacteria (only) Sample Condition Cool Intact  Yes  No  Corrected Temp. °C

Thermometer ID #113 Correction Factor None

FORM-000-REV. 11/01/2012

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: RS&I P.O. #:  
 Project Manager: Jace Carney Company:  
 Address: State: Zip: Attn:  
 City: Address:  
 Phone #: Fax #: City: State: Zip:  
 Project #: Project Owner:  
 Project Name: Cimarron Phone #:  
 Project Location: forty miles Fax #:  
 Sampler Name: TC

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	PH	BTEX	Chlorides	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						
H002834	FE B1-6'	G				X				X	10/23	4:00			
	20 FE B2-3'														
	21 FE B3-3'														
	22 FE B4-3'														
	23 FE B5-2.5'														
	24 FE B6-2.5'														
	25 FE B7-2.5'														
	26 FE B8-2.5'														

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Reinquisitioned By: \_\_\_\_\_ Date: 10/23/20 Received By: Yvonne Muriz  
 Time: 6:14  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_  
 Delivered By: (Circle One) Observed Temp. °C: -1.4 Sample Condition:  Cool Intact  Yes  No  
 Corrected Temp. °C: #113 CHECKED BY: (Initials) ym  
 Sampler - UPS - Bus - Other: \_\_\_\_\_ Thermometer ID #113 Standard  Rush   
 Turnaround Time: \_\_\_\_\_ Bacteria (only) Sample Condition:  Cool Intact  Yes  No  
 Correction Factor: None  Yes  No Corrected Temp. °C: \_\_\_\_\_  
 Verbal Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 All Results are emailed. Please provide Email address: \_\_\_\_\_  
 REMARKS: \_\_\_\_\_



**END OF REPORT**

**RXSoil, Inc.**  
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**District IV**  
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 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 11063

**CONDITIONS OF APPROVAL**

Operator: CIMAREX ENERGY CO. Suite 600 Midland, TX79701	600 N. Marienfeld Street	OGRID: 215099	Action Number: 11063	Action Type: C-141
OCD Reviewer ceads		Condition None		