



November 4, 2020

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

Re: Closure Request
Cimarex Energy Co. Sandy Federal #021H
NMOCD Reference #: nHMP1415024377

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 handwritten signature in black 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

Table of Contents

I.	Introduction.....	3
II.	Site Assessment/Characterization.....	3
III.	Closure Reporting.....	3
IV.	Restoration, Reclamation and Re-vegetation	4

Figures

1.	Vicinity Map.....	5
2.	Spill Map.....	6
3.	Water Well Map	7

Appendix

A.	C-141	8
B.	Excavation Summary Table	12
C.	Site Photographs	14
D.	Laboratory Reports	
	1. Bottom Samples	17
	2. Sidewall Samples	33

I. Introduction

On behalf of Cimarex Energy Co., RXSoil, Inc. ("RXSoil") has prepared this closure request that describes remediation of the release at the Sandy Federal #021H well (Coordinates: 32.283812, -103.843781) in Eddy County with reference number nHMP1415024377.

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.

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Page 5 of 45

Legend

Feature 1

Location



Figure 2 - Site Sampling Map

Sample location and depth to clean soil

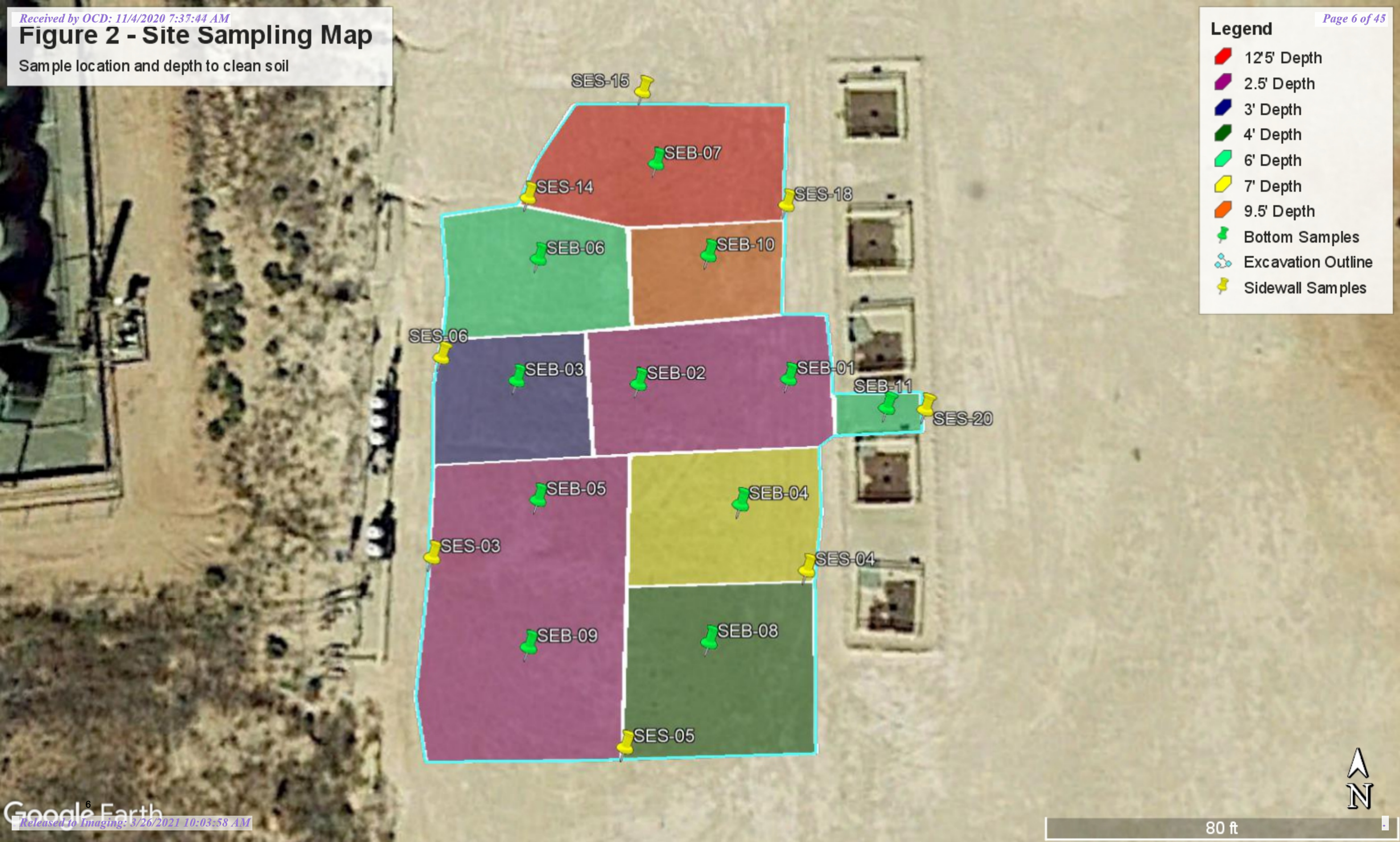


Figure 3 - Water Well Map



11/2/2020, 8:34:00 AM

GIS WATERS PODs

- Pending
- OSE District Boundary
- SiteBoundaries

1:18,056

0 0.17 0.35 0.7 mi

0 0.3 0.6 1.2 km

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	nHMP1415024377
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 not 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

Incident ID	nHMP1415024377
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: _____ Date: _____

Incident ID	nHMP1415024377
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: _____

Date: _____

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: _____ Date: _____

Printed Name: _____

Title: _____

APPENDIX B

DATA SUMMARY TABLE

Excavation Data - Cimarex Sandy															
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
SEB-01	Bottom	2.5	10/6/2020	10/19/2020	ND	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SEB-02	Bottom	2.5	10/6/2020	10/19/2020	ND	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SEB-03	Bottom	3	10/7/2020	10/19/2020	ND	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SEB-04	Bottom	7	10/7/2020	10/19/2020	412	368	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SEB-05	Bottom	2.5	10/8/2020	10/19/2020	ND	96.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SEB-06	Bottom	6	10/8/2020	10/19/2020	268	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SEB-07	Bottom	12.5	10/8/2020	10/19/2020	ND	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SEB-08	Bottom	4	10/12/2020	10/19/2020	464	480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SEB-09	Bottom	2.5	10/12/2020	10/19/2020	ND	96.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SEB-10	Bottom	9.5	10/15/2020	10/19/2020	120	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SEB-11	Bottom	6	10/16/2020	10/19/2020	364	432	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SES-03	Sidewall	-	10/14/2020	10/19/2020	ND	96.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SES-04	Sidewall	-	10/7/2020	10/19/2020	464	528	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SES-05	Sidewall	-	10/13/2020	10/19/2020	464	448	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SES-06	Sidewall	-	10/14/2020	10/19/2020	148	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SES-14	Sidewall	-	10/9/2020	10/19/2020	352	368	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SES-15	Sidewall	-	10/9/2020	10/19/2020	396	480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SES-18	Sidewall	-	10/8/2020	10/19/2020	148	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
SES-20	Sidewall	-	10/16/2020	10/19/2020	184	256	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0
NMOC Thresholds						600	10				50				100

BOLD results indicate results above RRAL

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

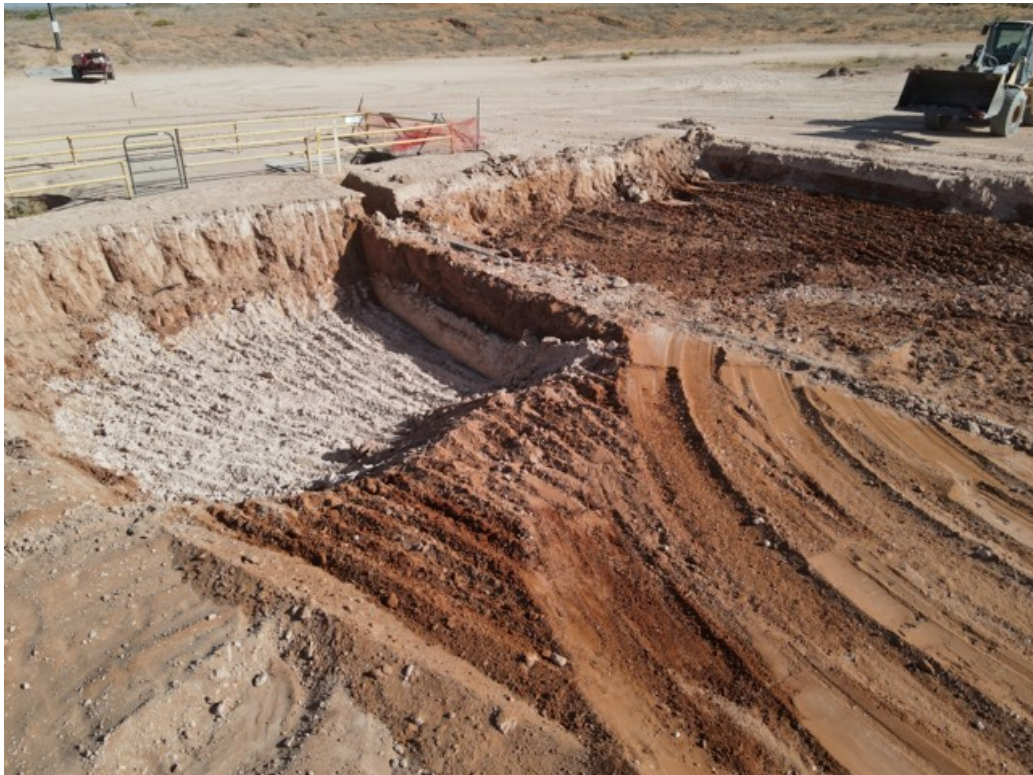
All units in mg/kg unless otherwise noted

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



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

APPENDIX D

LABORATORY REPORTS

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



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

October 22, 2020

ZACH ROBBINS

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: SANDY & FORTY -NINER

Enclosed are the results of analyses for samples received by the laboratory on 10/16/20 13:15.

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.

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 "Coley D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/16/2020	Sampling Date:	10/06/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	SANDY & FORTY -NINER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SEB - 01 (H002761-01)

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	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTEX	<0.300	0.300	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/19/2020	ND	400	100	400	0.00	

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	10/19/2020	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	202	101	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.8 % 42.2-156

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.
 ZACH ROBBINS
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	10/16/2020	Sampling Date:	10/06/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	SANDY & FORTY -NINER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SEB - 02 (H002761-02)

BTX 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	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTX	<0.300	0.300	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/19/2020	ND	400	100	400	0.00	

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	10/19/2020	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	202	101	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 88.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.9 % 42.2-156

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.
 ZACH ROBBINS
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received: 10/16/2020
 Reported: 10/22/2020
 Project Name: SANDY & FORTY -NINER
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SEB - 03 (H002761-03)

BTX 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	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTX	<0.300	0.300	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/19/2020	ND	400	100	400	0.00		

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	10/19/2020	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	202	101	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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.
 ZACH ROBBINS
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	10/16/2020	Sampling Date:	10/07/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	SANDY & FORTY -NINER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SEB - 04 (H002761-04)

BTX 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	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTX	<0.300	0.300	10/19/2020	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	368	16.0	10/19/2020	ND	400	100	400	0.00	

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	10/19/2020	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	202	101	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/16/2020	Sampling Date:	10/08/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	SANDY & FORTY -NINER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SEB - 05 (H002761-05)

BTX 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	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTX	<0.300	0.300	10/19/2020	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	96.0	16.0	10/19/2020	ND	400	100	400	0.00		

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	10/19/2020	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	202	101	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 93.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/16/2020	Sampling Date:	10/08/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	SANDY & FORTY -NINER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SEB - 06 (H002761-06)

BTX 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	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTX	<0.300	0.300	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	320	16.0	10/19/2020	ND	400	100	400	0.00		

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	10/19/2020	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	202	101	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/16/2020
 Reported: 10/22/2020
 Project Name: SANDY & FORTY -NINER
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/08/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SEB - 07 (H002761-07)

BTX 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	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTX	<0.300	0.300	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	10/19/2020	ND	400	100	400	0.00	

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	10/19/2020	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	202	101	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/16/2020	Sampling Date:	10/12/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	SANDY & FORTY -NINER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SEB - 08 (H002761-08)

BTX 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	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTX	<0.300	0.300	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	480	16.0	10/19/2020	ND	400	100	400	0.00		

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	10/19/2020	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	202	101	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 93.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/16/2020	Sampling Date:	10/12/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	SANDY & FORTY -NINER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SEB - 09 (H002761-09)

BTX 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	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTX	<0.300	0.300	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	10/19/2020	ND	400	100	400	0.00		

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	10/19/2020	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	202	101	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 98.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/16/2020	Sampling Date:	10/15/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	SANDY & FORTY -NINER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SEB - 10 (H002761-10)

BTX 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	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTX	<0.300	0.300	10/19/2020	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	112	16.0	10/19/2020	ND	400	100	400	0.00		

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	10/19/2020	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	202	101	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/16/2020	Sampling Date:	10/16/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	SANDY & FORTY -NINER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SEB - 11 (H002761-11)

BTX 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	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTX	<0.300	0.300	10/19/2020	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	432	16.0	10/19/2020	ND	400	100	400	0.00		

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	10/19/2020	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	202	101	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager

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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 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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Rx Soil		BILL TO		ANALYSIS REQUEST	
Project Manager:		P.O. #:			
Address:		Company: Rx Soil			
City:		Attn:			
State:		Address:			
Phone #:		City:			
Fax #:		State:			
Project #:		Zip:			
Project Name: Sandy & Forty - Niner		Phone #:			
Project Location:		Fax #:			
Sampler Name: Maverick Mickle					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	TPH	BTX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :					
1	SEB - 01	G	1	X									10/6	10 am	X		
2	SEB - 02			X									10/6	10 am	X		
3	SEB - 03			X									10/7	12 pm			
4	SEB - 04			X									10/7	12 pm			
5	SEB - 05			X									10/7	1 pm			
6	SEB - 06			X									10/8	2 pm			
7	SEB - 07			X									10/8	3 am			
8	SEB - 08			X									10/12	10 am			
9	SEB - 09			X									10/12	3 pm			
10	SEB - 10	G	1	X									10/15	10 am	X		

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Relinquished By: Maverick Mickle	Date: 10/11/14	Received By: Juanita White	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:
Time:	Date:	Time:	REMARKS:
Time:	Date:	Time:	

Delivered By: (Circle One) UPS - Bus - Other:	Observed Temp. °C 22.4	Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) TS	Turnaround Time:	Standard <input checked="" type="checkbox"/> RUSH	Bacteria (only) <input type="checkbox"/>	Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Thermometer ID #113	Corrected Temp. °C	Correction Factor None					Observed Temp. °C

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



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

October 22, 2020

ZACH ROBBINS

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: SANDY & FORTY -NINER

Enclosed are the results of analyses for samples received by the laboratory on 10/16/20 13:15.

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.

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.
 ZACH ROBBINS
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	10/16/2020	Sampling Date:	10/14/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	SANDY & FORTY -NINER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SES - 03 (H002762-01)

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	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTEX	<0.300	0.300	10/19/2020	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	96.0	16.0	10/19/2020	ND	400	100	400	0.00	

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	10/19/2020	ND	217	109	200	2.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	205	103	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 88.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/16/2020
 Reported: 10/22/2020
 Project Name: SANDY & FORTY -NINER
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SES - 04 (H002762-02)

BTX 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	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTX	<0.300	0.300	10/19/2020	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	528	16.0	10/19/2020	ND	400	100	400	0.00	

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	10/19/2020	ND	217	109	200	2.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	205	103	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 77.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/16/2020
 Reported: 10/22/2020
 Project Name: SANDY & FORTY -NINER
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/13/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SES - 05 (H002762-03)

BTX 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	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTX	<0.300	0.300	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	448	16.0	10/19/2020	ND	400	100	400	0.00	

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	10/19/2020	ND	217	109	200	2.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	205	103	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 93.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/16/2020
 Reported: 10/22/2020
 Project Name: SANDY & FORTY -NINER
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/14/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SES - 06 (H002762-04)

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	10/19/2020	ND	1.96	98.2	2.00	0.958	
Toluene*	<0.050	0.050	10/19/2020	ND	2.01	101	2.00	1.05	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	1.96	98.1	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	5.73	95.5	6.00	1.07	
Total BTEx	<0.300	0.300	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 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	10/19/2020	ND	400	100	400	0.00	

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	10/19/2020	ND	217	109	200	2.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	205	103	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/16/2020
 Reported: 10/22/2020
 Project Name: SANDY & FORTY -NINER
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/09/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SES - 14 (H002762-05)

BTX 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	10/19/2020	ND	1.96	98.2	2.00	0.958	
Toluene*	<0.050	0.050	10/19/2020	ND	2.01	101	2.00	1.05	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	1.96	98.1	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	5.73	95.5	6.00	1.07	
Total BTEX	<0.300	0.300	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	368	16.0	10/19/2020	ND	400	100	400	0.00	

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	10/19/2020	ND	217	109	200	2.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	205	103	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 76.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/16/2020	Sampling Date:	10/09/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	SANDY & FORTY -NINER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SES - 15 (H002762-06)

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	10/19/2020	ND	1.96	98.2	2.00	0.958	
Toluene*	<0.050	0.050	10/19/2020	ND	2.01	101	2.00	1.05	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	1.96	98.1	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	5.73	95.5	6.00	1.07	
Total BTEx	<0.300	0.300	10/19/2020	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	480	16.0	10/19/2020	ND	400	100	400	0.00		

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	10/19/2020	ND	217	109	200	2.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	205	103	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/16/2020
 Reported: 10/22/2020
 Project Name: SANDY & FORTY -NINER
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/08/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SES - 18 (H002762-07)

BTX 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	10/19/2020	ND	1.96	98.2	2.00	0.958	
Toluene*	<0.050	0.050	10/19/2020	ND	2.01	101	2.00	1.05	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	1.96	98.1	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	5.73	95.5	6.00	1.07	
Total BTEX	<0.300	0.300	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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	144	16.0	10/19/2020	ND	400	100	400	0.00	

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	10/19/2020	ND	217	109	200	2.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	205	103	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 91.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.8 % 42.2-156

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/16/2020	Sampling Date:	10/16/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	SANDY & FORTY -NINER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SES - 20 (H002762-08)

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	10/19/2020	ND	1.96	98.2	2.00	0.958	
Toluene*	<0.050	0.050	10/19/2020	ND	2.01	101	2.00	1.05	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	1.96	98.1	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	5.73	95.5	6.00	1.07	
Total BTEx	<0.300	0.300	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	256	16.0	10/19/2020	ND	368	92.0	400	4.26		

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	10/19/2020	ND	217	109	200	2.83	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	205	103	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 83.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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 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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Rx Soil
Project Manager:

Address: 201 Main St

City: Fort Worth State: TX Zip: 76102

Phone #: (210) - 997-7645 Fax #:

Project #: Project Owner:

Project Name: Sandy & Forty - Niner

Project Location:

Sampler Name: Maverick mickle

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	Chlorides										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :															
Hees-762	SES-03	C	1	X						10/14	10am	X	X	X										
	SES-04	C	1							10/7	12pm													
	SES-05	C	1							10/13	8am													
	SES-06	C	1							10/14	2pm													
	SES-14	C	1							10/9	12pm													
	SES-15	C	1							10/9	12pm													
	SES-18	C	1							10/8	9am													
	SES-20	C	1	X						10/16	10am	X	X	X										

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Relinquished By: Date: 10/16 Received By: [Signature]

Maverick Mickle Date: 10/15 Received By: [Signature]

Delivered By: (Circle One) Observed Temp. °C 23.4 Sample Condition Cool Intact Yes [X] No []

Corrected Temp. °C []

Sample - UPS - Bus - Other: []

CHECKED BY: (Initials) [Signature]

Turnaround Time: Standard [X] Rush []

Thermometer ID #113 Correction Factor None

Verbal Result: [] Yes [] No [] Add'l Phone #:

All Results are emailed. Please provide Email address:

REMARKS: Zach. Robbins @ rxsoil. Solutions

END OF REPORT

RXSoil, Inc.

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

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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 11062

CONDITIONS OF APPROVAL

Operator: CIMAREX ENERGY CO. Suite 600 Midland, TX79701	600 N. Marienfeld Street	OGRID: 215099	Action Number: 11062	Action Type: C-141
OCD Reviewer bbillings	Condition None			