

June 22, 2018

Olivia Yu

NMOCD District 1

1625 N. French Drive

Hobbs, New Mexico 88240

Re: Work Plan

Marshall & Winston - Slick Mesa State 27-1H

NMOCD Reference #'s: 1RP-5047, 1RP-5065, 1RP-5066

Ms. Olivia Yu:

RXSoil, Inc. is pleased to submit the work plan summarizing the on-site remediation of produced water impacted soil at the Slick Mesa State 27-1H site located in Lea County, New Mexico. Remediation work plan follows in the attached report.

Sincerely,

Jace Caraway

Chief Operating Officer

RXSoil, Inc.

(940) 210-2051

APPROVED

By Olivia Yu at 12:22 pm, Jul 24, 2018

NMOCD approves of the proposed remediation plan for 1RP-5047, 1RP-5065, and 1RP-5066. Bottom and sidewall confirmation samples must be marked with GPS coordinates on a scaled map. Dated photo documentation, including proper emplacement of a liner, must be included.

Zach Robbins

Technical and Engineering Analyst

RXSoil, Inc.

(210) 400-7645

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I. Introduction

On behalf of Marshall & Winston, Inc., RXSoil, Inc. ("RXSoil") has prepared this work plan that describes the assessment and action plan for remediation of the releases of 1RP-5047, 1RP-5065, 1RP-5066 at the Slick Mesa State 27-1H site with API #30-025-30587.

The site of all three spills is in Unit Letter F, Section 13, Township 21S, Range 34E (see *Figure 1* for Vicinity Map). The Release Notification and Corrective Action documents are listed in *Appendix A*.

The first release (1RP-5047) occurred on 05/06/2018 with the C-141 approved on 05/08/2018. The release was caused by a split in a pipeline. The report states 375 barrels of produced water were released, and 230 barrels were recovered, covering an area of 200 feet by 200 feet.

The second release (1RP-5065) occurred on 05/16/2018 with the C-141 approved on 05/21/2018. This release was also caused by a split in a pipeline. The report states 300 barrels of produced water were released, and 260 barrels were recovered, covering approximately the same area of 200 feet by 200 feet.

The third release (1RP-5066) occurred on 05/19/2018 with the C-141 approved on 05/21/2018. The release was caused by a fire burning up a poly line. The report states the release of an unknown amount of produced water covered approximately the same area as before.

II. Regulatory Guidelines

The New Mexico Office of the State Engineer Water Column/Average Depth to Water lists the depth to water of the closest well (approximately 1.75 miles northeast of release) to be 165 feet (See *Appendix B*). This information results in a Depth to Ground Water score of 0 and a Wellhead Protection Area score of 0.

Figure 2 includes a 1,000-foot radius from the site showing no surface water within 1,000 feet of the release on the NM OCD Oil and Gas Map with Hydrology Layer. The total ranking score for this site's threat to public health, ground water and environmental therefore is 0.

| Depth to Ground Water: | | | |
|--|-----------------------|-----------|---|
| (Vertical distance from contaminants to seasonal | Less than 50 feet | 20 points | |
| high water elevation of groundwater) | 50 feet to 99 feet | 10 points | |
| | >100 feet | 0 points | Х |
| Wellhead Protection Area: | | | |
| (Less than 200 feet from a private domestic water | Yes | 20 points | |
| source; or less than 1000 feet from all other water sources) | No | 0 points | Х |
| Distance to Surface Water: | | | |
| (Horizontal distance to perennial lakes, ponds, rivers, | Less than 200 feet | 20 points | |
| streams, creeks, irrigation canals and ditches) | 200 feet to 1000 feet | 10 points | |
| | >1000 feet | 0 points | Х |
| RANKING SCORE (TOTAL POINTS) | | | 0 |

The target cleanup levels are determined using *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). The Recommended Remediation Action Levels (RRAL) are **10** parts per million (ppm) benzene, **50** ppm combined benzene, toluene, ethyl benzene, and total xylenes (BTEX), **5,000** ppm total petroleum hydrocarbons (TPH) and **600** ppm chlorides.

As discussed in the later portion of **Section IV**, post-remediation discrete confirmation samples will be taken and properly packaged, preserved and transported to a third-party laboratory by chain of custody, and analyzed for chlorides (Method 300 or Method 4500, per revised Rule 29). The results will be included in the closure report along with chain of custody and quality control.

III. Delineation Report

RXSoil received a verbal approval from Ryan Mann at the State Land Office to move forward with delineation prior to drilling.

Based on a spill map and visual evidence, six borehole locations were selected throughout the affected area. These locations, as well as an area of predicted affected material can be seen in *Figure 4*.

RXSoil contracted Atkins Engineering Associates to drill boreholes for vertical delineation. RXSoil had personnel present during the drilling of boreholes to guide delineation. Drilling occurred at each borehole until 10' of clean soil was discovered. Samples were field screened for chlorides to guide the delineation activity and then transported on ice to Cardinal Laboratories in Hobbs, NM, for confirmation.

Samples were taken at intervals no greater than 5' in depth, with one exception occurring at BH02. At this location, there were consecutive samples taken at 14' and 19.5' depth (interval of 5.5') because the material was hard and only a portion of the 2' spoon could be captured.

Samples at 1' depth at borehole locations labeled BH01, BH02, BH03 and BH05 were also tested for BTEX and TPH. Samples were transported on ice in sealed glass jars. Tests were performed within the recommended hold time for BTEX and TPH of 14 days (per SW846 Chapter 4 Organic Analytes Table 4.1). All tests for TPH and BTEX showed levels significantly below legal thresholds listed in **Section II**, providing evidence that no further action must be taken to monitor TPH and BTEX for this remediation project.

Full results from vertical delineation can be found in *Appendix C*. This includes a data summary table, the laboratory reports, and a copy of the digital field notes.

Soil boring logs are currently being compiled and will be submitted to the NMOCD.

Samples from BH01-BH04 were collected on 06/05/2018 while samples from BH05 and BH06 were collected on 06/07/2018. Vertical delineation provided evidence to excavate to a depth of 4' throughout the contaminated areas surrounding BH01, BH02, BH03, BH04 and BH06. Lab tests on BH05 showed chloride levels no higher than 32.0 ppm. This area is not in the proposed excavation area.

Further horizontal delineation will be completed during excavation and is specified in **Section IV**.

IV. Soil Remediation Work Plan

RXSoil's core process of on-site remediation will be used to address the contamination. RXSoil will supervise all excavation with approval from area utilities owners via NM 811.

RXSoil will construct one in-ground treatment cell adjacent to the contaminated area, staying no less than 1000' away from any water bodies. Once the final location of the treatment cell has been field verified, District 1 will be notified with coordinates of the four corners. This cell will be excavated to a depth of 4'. A 30-mil poly liner will be installed on the bottom and sides of cells to contain treatment (to be demarcated on map in Closure Report). A proprietary drainage and collection system will be installed. The background material (not affected by the release) will be staged away from any contaminated material to avoid cross-contamination. The cell is planned to cover an area of 150' by 270'. Final dimensions will be included in the closure report and the area will be demarcated on a map.

Sidewall and bottom samples will be taken for the contaminated area using a stainless-steel hand shovel while remediation samples will be taken using a stainless-steel bucket auger. All tools will be decontaminated before each sample, as specified in *Field Equipment Cleaning and Decontamination* (EPA, 2015). This includes wiping the equipment clean, water-rinsing the equipment, washing the equipment in detergent and water, and rinsing the equipment in water. Samples will be temporarily transferred to a new plastic bag in the field. Once in a location safer for handling glass, the samples will be transferred to glass jars, supplied by an approved laboratory. The threads on all jars will be wiped clean to allow an air-tight seal. Samples will be placed on ice and transferred to a third-party laboratory within an appropriate time period never to exceed 28 days, as recommended in the EPA Method 300.0 handbook. RXSoil will make reasonable efforts to minimize this transfer time.

The affected material will be excavated and placed into the RXSoil treatment cell. Sidewall samples in each cardinal direction will be collected (with samples no further than 50' apart) and transferred to a third-party lab for confirmation (via approved chloride tests) that all affected material has been excavated. Excavation will continue until all sidewall samples are below 600 ppm chlorides (via approved chloride tests). In order to not disturb the old production pit (shown in *Figure 3* and *Figure 4*), all excavation will occur at least 10' away from the pit edges.

Throughout excavation one bottom sample will be taken in the vicinity of each sample point labeled **BHX** on *Figure 3* where **X** is the sample number. This will determine the bottom of the plume in each area, protecting groundwater. Excavation occurs until testing provides evidence that the chloride levels are below thresholds listed in **Section II** or until excavation depth reaches 4'.

Whenever excavation depth changes, at least one bottom sample will be taken. If the bottom sampling should lead excavation to a depth of 4', excavation in that area will halt, a sample will be collected, and a 20-mil poly liner will be placed on the subsurface before backfilling (to be demarcated in Closure Report). These samples will be appropriately transferred to a third-party lab for confirmation that excavation was to the appropriate depth.

The clean material previously staged will be used to backfill the excavated area (see *Figure 3*). A proprietary delivery system will be installed in the treatment cell to apply RXSoil chemicals for remediation of the soil. RXSoil chemicals and biological agents will go through the profile of the soil before entering the collection system. RXSoil will collect this leachate and properly dispose of all collected leachate. No subsoil will be exposed to leachate from the treatment cells during remediation. No harmful or hazardous chemicals are used in the RXSoil Process.

Final discrete soil samples will be collected and tested for every 50 cubic yards of treated material at the end of treatment to confirm impacted soil has been remediated to required chloride levels directed by NMOCD standards, as specified in **Section II**. All samples will consist of enough material for at least one (1) field screening and two (2) laboratory tests. A portion of each sample will be field screened and 50% of these samples will have a portion transferred to a third-party laboratory for confirmation that all soil passes NMOCD standards. Lab reports and a map with sample points from a GPS device will all be included in the final report.

The current proposed cell dimensions are approximately 150' by 270' by 4' depth. This cell would hold 6,000 cubic yards, requiring no fewer than 120 samples per cell (6,000 cubic yards * 1 sample per 50 cubic yards). The planned sample grid will be an evenly spaced grid of 14 columns by 9 rows (126 samples) with samples taken at a depth of 36"-48". Due to the nature of the RXSoil Process, deeper samples tend to clean up last, since all contamination must push through the bottom of the profile. A diagram of the spacing can be seen in *Figure 4*, representing the sampling plan for one cell. A cross section view of the sampling can be seen in *Figure 5*.

Based on this cell size, 126 samples will be taken with 63 duplicates being sent to a third-party laboratory for testing. All samples that are collected for lab analysis and not submitted will be preserved for future analysis if required with the understanding that the recommended hold time of 28 days may be exceeded.

If any sample points test for a chloride concentration greater than 600 ppm, RXSoil will continue treatment in that area of the treatment cell. Following re-treatment, samples will be redrawn from any location that initially tested above regulations. This will be done until all sample locations test below threshold. All sample points throughout the project will be GPS located and demarcated on a final sampling map, provided in the closure report.

After completion of the remedial phase of the project a minimum of two composite samples (one from the treatment cell and one from the restored area) will be collected for agricultural analysis (CEC, SAR, ESP, anions and cations). These results will be provided to an agronomist so that proper soil amendments can be determined to provide for the landowner approved vegetative cover. The amendments and seed will be applied following the remediation project, at the discretion of the landowner.

A closure report summarizing all remediation activities, including scaled maps and all test results stated above, will be submitted upon completion of the project.

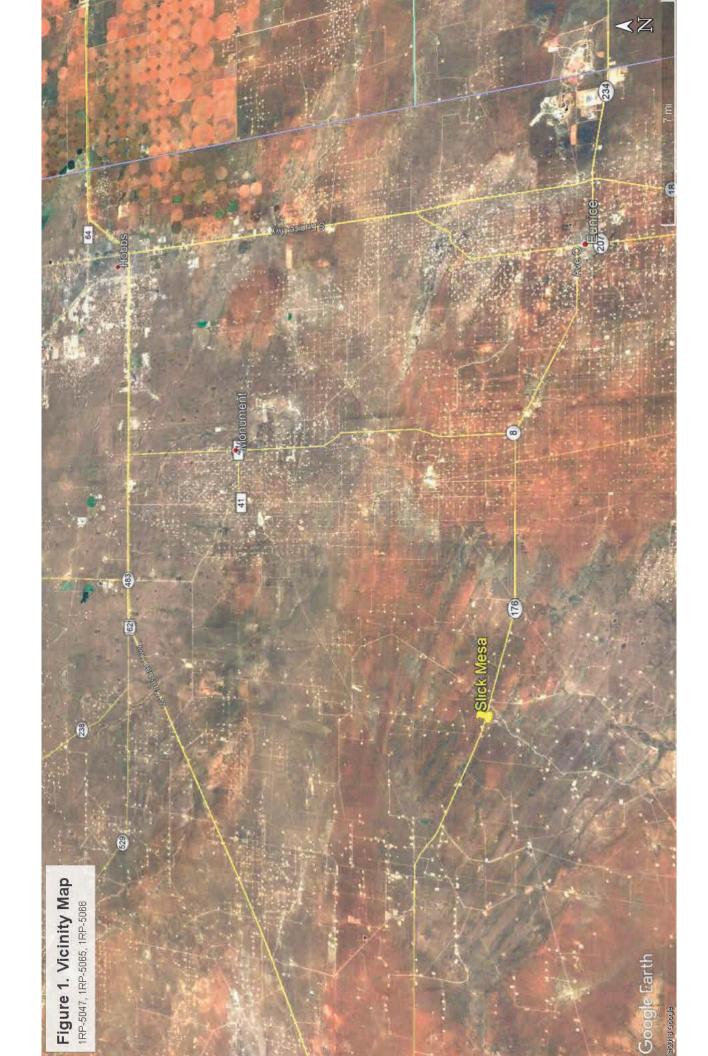


Figure 2. Hydrology Map

| SWNE (G) | NWSE (J) | SWSE (O) | NWNE (B) | SWNE (G) | MWSE (7) | SWSE (O) | (B) | SWNE (G) |
|-------------|-------------|--------------|-------------|------------------------|-------------|----------------|----------------|-------------|
| SENW (F) | NESW (K) | SESW (N) | NEWN (C) | SENW (F) | NESW (K) | SESW (N) | NENW (C) | SENW (F) |
| SWNW (E) | (T) | SWSW (M) | NWWW (D) | SWINWY (E) | NWSW (L) | SWSW (M) | NVVVVV (D) | SWNW (E) |
| SENE (H) | NESE (1.) | SESE (P) | NEME (A) | SENE (H) | NESE (!) | SESE (P) | NENE (A) | SENE (H) |
| SWNE (G) | L) | SWSE (O) | NAVNE (B) | SWNE (G) | NWSE (J) | SWSE (O) | NWNE (B) | SWNE (G) |
| SENW (F) | (K) (K) | SESW (N) | NENW (C) | SEMV (F) | NESW (K) | SESW (N) | NENW (C) | SENW (F) |
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1000' Radius

New Mexico Oil Conservation Division NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/: New Mexico Oil Conservation Division

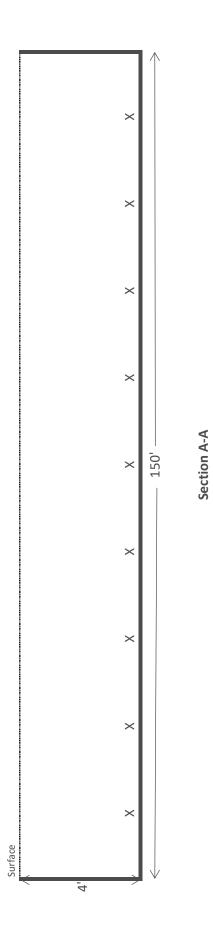
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Legend

X - Sample at 4'
*diagram not to scale

APPENDIX A.1

C-141, RELEASE NOTIFICATION AND CORRECTIVE ACTION DOCUMENT

1RP-5047

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr , Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141

Revised April 3, 2017

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

Release Notification and Corrective Action

| | | | | | | OPERA | ΓOR | | 🔲 Initia | al Report | | Final Report |
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| | | 0880, Midla | | 9710-0880 | | Telephone N | No: 432-684- | 6373 (| o) or 432-8! | 94-0165 (c) |) | ن ا |
| Facility Nar | ne: Slick | Mesa State 2 | 7-1H | | | Facility Typ | e: Well Loc | ation | | | | |
| Surface Ow | ner: State | of New Mex | kico | Mineral O | wner: | State of New | Mexico | | API No | . 30-025-3 | 30587 | |
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| Signature: Printed Name | :: Todd Pas | smore | | | | Approved by | Environmental S | Speciali | st: σ^{V} | } | | |
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| E-mail Addre | ss: tpassmo | ore@mar-win | .com | | | Conditions of | Approval: | | | Attached | 4 | |
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APPENDIX A.2

C-141, RELEASE NOTIFICATION AND CORRECTIVE ACTION DOCUMENT

1RP-5065

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141

Revised April 3, 2017

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| | | | Rele | ase Notific | cation | and Co | rrective Ac | ction | | | | |
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| | | | | | | OPERA | ΓOR | \triangleright |] Initia | l Report | | Final Report |
| Name of Co | ompany: 1 | Marshall & W | inston, I | nc. | (| Contact: T | odd Passmore | | | | | |
| Address: | P.O. Box : | 50880, Midla | nd TX 79 | 710-0880 | 7 | Telephone N | No: 432-684-63 | 73 (o) o | r 432-89 | 04-0165 (c) | | |
| Facility Na | me: Slick | Mesa State 2 | 7-1H | | I | Facility Typ | e: Well Locati | ion | | | | |
| Surface Ow | ner: State | of New Mex | tico | Mineral (| Owner: S | State of Nev | v Mexico | | API No. | 30-025-3 | 30587 | |
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| federal, state | , or local la | ws and/or regu | lations. | | | | OH CONG | EDILL | TIONI | DHUGIO | > T | |
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| Signature: | | | | | | | | | y | _ | | |
| Printed Name | e: Todd Pa | ssmore | | | P | Approved by | Environmental Sp | ecialist: | () | | | |
| Title: Opera | tions Mana | ger | | | | Approval Dat | 5/21/2018 | Ex | piration I | Date: | | |
| F-mail Addre | ecc tnacem | ore@mar-win | com | | | Conditions of | f Approval: | | | | | |
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1RP-5065

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15

APPENDIX A.3

C-141, RELEASE NOTIFICATION AND CORRECTIVE ACTION DOCUMENT

1RP-5066

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rto Brazos Road, Aztec, NM 87410 District IV 1220 S St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Revised April 3, 2017

Form C-141

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| | | | Rele | ease Notific | ation | and Co | rrective A | ction | | | |
|---|--|--|--|---|------------------------------------|--|---|--|--|------------------------------|-----------------------------------|
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| | | 0880, Midla | | 9710-0880 | | | | 373 (o) or 432-8 | 94-0165 (c) | | |
| Facility Nan | ne: Slick | Mesa State 2 | /-1H | | J 1 | Facility Typ | e: Well Loca | uon_ | | | |
| Surface Own | ner: State | of New Mex | cico | Mineral C | wner: S | State of Nev | v Mexico | APIN | 30-025-3 | 0587 | |
| | | | | LOCA | MOIT | OF REI | LEASE | | | | |
| Unit Letter | Section 13 | Township 21-S | Range 34-E | Feet from the | North/ | South Line | Feet from the | East/West Line | County Lea County | , NM | |
| | | Lati | tude: | 32*28'47.61" | | ngitude OF RELI | | ' NAD83 | | | |
| Type of Relea | se. Produc | ed Water | | NAI | UKE | - | Release: unknow | n Volume | Recovered: | | |
| Source of Rel | | | | | | | lour of Occurrence | | Hour of Disc | overy | |
| Was Immedia | ite Notice (| | Yes [| No Not Re | equired | If YES, To 19:30 Olivia Yu, | | /19/18 | | | 5/18/18 |
| By Whom? | | | | | | | lour 5/19/18 10: | | | | |
| Was a Watero | ourse Read | | Yes 🗵 | No | | If YES, Vo | lume Impacting t | he Watercourse. | | | |
| If a Watercou | rse was Im | pacted, Descr | ibe Fully. | | | RECE | IVED | | | | |
| | | | | | | By Oli | via Yu at 4 | 4:27 pm, M | lay 21, 2 | 2018 | |
| Describe Cau A fire spread | | | | | xtinguis | hed by Eunic | e FD. Pipeline is | not in service at t | he time of the | fire. | |
| | mount of p | roduced water e vicinity as t | was relea he prior II | sed, due to the lin | | | | rrels is estimated t e newly affected a | | | |
| regulations al public health should their o | l operators or the envir perations h ment. In a | are required to ronment. The ave failed to a ddition, NMC | report ar acceptance dequately CD accep | id/or file certain re te of a C-141 repo investigate and re | elease no rt by the emediate | otifications are NMOCD made contamination | nd perform correct arked as "Final Ro on that pose a thro | nderstand that pur tive actions for rel eport" does not rel eat to ground wate esponsibility for c | eases which r ieve the oper r, surface wat | nay en ator of er, hur | danger liability man health |
| | 11 | 1// | | | | - " - | OIL CONS | SERVATION | DIVISIO | N | |
| Signature: | / WY | | | 8 | | | | ol/ | 1 | | |
| Printed Name | : Todd Pas | ssmore | | | A | Approved by | Environmental Sp | pecialist: | | | |
| Title: Operat | ions Manag | ger | | | | Approval Dat | 5/21/2018 | Expiration | Date: | | |
| E-mail Addre | ss: tpassm | ore@mar-win | .com | | | Conditions of | Approval: ched directiv | e | Attached | <u> </u> | |
| Date: 5/21 | | Phone: 432-89 | | | | - anac | and undouv | | | | |
| Attach Addit | ional Shee | ets If Necess | ary | | F | 1RP-506 | 6 | 24.44.500.45 | | | |

nOY1814159045

pOY1814159339

APPENDIX B

WATER COLUMN/AVERAGE DEPTH TO WATER



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

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD

| | | Sub- | | Q | Q | Q | | | | | | | V | Vater |
|----------------------|------|-------|--------|----|----|---|-----|-----|-----|--------|----------|----------------|----------|-------|
| POD Number | Code | basin | County | 64 | 16 | 4 | Sec | Tws | Rng | X | Y | DepthWellDepth | Water Co | olumn |
| <u>CP 00939 POD1</u> | | CP | LE | 4 | 1 | 2 | 07 | 21S | 35E | 649974 | 3596760* | 400 | 165 | 235 |
| CP 00940 POD1 | | CP | LE | 4 | 1 | 2 | 07 | 21S | 35E | 649974 | 3596760* | 400 | 165 | 235 |

Average Depth to Water:

165 feet

Minimum Depth:

165 feet

Maximum Depth:

165 feet

Record Count: 2

PLSS Search:

Section(s): 7, 18, 19

Township: 21S

Range: 35E

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/18/18 12:14 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

^{*}UTM location was derived from PLSS - see Help

APPENDIX C.1

DELINEATION REPORT

DELINEATION SUMMARY TABLE

| | | | Delineation Dat | a: Slick Mesa | | | |
|----------|--------------|---------------|------------------------|---------------|------------|---------------|------------|
| Sam | ple Date: 06 | 5/05/2018 | Submittal Date | : 06/08/2018 | Laboratory | : Cardinal La | boratories |
| | | | Chlor | ride | Benzene | BTEX | TPH |
| Borehole | Depth (ft) | Lab ID Sample | Field Screening | | 802 | 21B | 8015M |
| 1 | 1 | BH01-1' | 5164 | 3920 | <0.050 | <0.300 | 199 |
| 1 | 2 | BH01-2' | 1272 | 4240 | - | - | - |
| 1 | 3 | BH01-3' | 1732 | 2040 | - | - | - |
| 1 | 4 | BH01-4' | 1732 | 1800 | - | - | - |
| 1 | 6 | BH01-6' | 1416 | 1620 | - | - | - |
| 1 | 9 | BH01-9' | 1136 | 1380 | - | - | - |
| 1 | 14 | BH01-14' | 612 | 896 | - | - | - |
| 1 | 19 | BH01-19' | 392 | 416 | - | - | - |
| 1 | 24 | BH01-24' | 288 | 224 | - | - | - |
| 1 | 29 | BH01-29' | 228 | 112 | - | - | - |
| 1 | 34 | BH01-34' | 176 | 80.0 | - | - | - |
| 1 | 39 | BH01-39' | 228 | 144 | - | - | - |
| 2 | 1 | BH02-1' | 4768 | 3920 | <0.050 | <0.300 | <30 |
| 2 | 2 | BH02-2' | 4064 | 4160 | - | - | - |
| 2 | 3 | BH02-3' | 4768 | 3840 | - | - | - |
| 2 | 4 | BH02-4' | 3460 | 5440 | - | - | - |
| 2 | 4.5 | BH02-4.5' | 3460 | 3600 | - | - | - |
| 2 | 9.5 | BH02-9.5' | 1732 | 2200 | - | - | - |
| 2 | 14 | BH02-14' | ND | 160 | - | - | - |
| 2 | 19.5 | BH02-19.5' | 196 | 192 | - | - | - |
| 2 | 24 | BH02-24' | 172 | 192 | - | - | - |
| 3 | 1 | BH03-1' | 1904 | 2880 | <0.050 | <0.300 | 85 |
| 3 | 2 | BH03-2' | 1904 | 2800 | - | - | - |
| 3 | 3 | BH03-3' | 908 | 1120 | - | - | - |
| 3 | 4 | BH03-4' | 1056 | 1390 | - | - | - |
| 3 | 6 | BH03-6' | 1272 | 1250 | - | - | - |
| 3 | 10 | BH03-10' | 612 | 576 | - | - | - |
| 3 | 15 | BH03-15' | 612 | 448 | - | - | - |
| 3 | 19 | BH03-19' | 392 | 336 | - | - | - |
| 3 | 21 | BH03-21' | 228 | 224 | - | - | - |
| 3 | | BH03-26' | ND | 80.0 | - | - | - |
| 3 | 31 | BH03-31' | ND | 32.0 | - | - | - |
| 4 | 1 | BH04-1' | 228 | 208 | - | - | - |
| 4 | 2 | BH04-2' | 196 | 144 | - | - | - |
| 4 | 3 | BH04-31 | 228 | 256 | - | - | - |
| 4 | 4 | BH04-4' | 472 | 624 | - | - | - |
| 4 | 6 | BH04-6' | ND | 80.0 | - | - | - |
| 4 | 11 | BH04-11' | ND | 32.0 | - | - | - |
| 4 | 16 | BH04-16' | ND | 48.0 | - | - | - |
| NMOCD T | hresholds | | | 600 | 10 | 50 | 5000 |

BOLD results indicate results above RRAL

⁻ indicates tests were not ran

| | | | Delineation Dat | a: Slick Mesa | | | | |
|----------|--------------|---------------|------------------------|---------------|--|--------|-------|--|
| Sam | ole Date: 06 | 5/07/2018 | Submittal Date | : 06/08/2018 | Laboratory: Cardinal Laboratories | | | |
| Doroholo | Donath (ft) | Lab ID Cample | Chlor | ride | Benzene | BTEX | TPH | |
| Богеноје | Depth (It) | Lab ID Sample | Field Screening | Method 4500 | 802 | 21B | 8015M | |
| 5 | 1 | BH05-1' | ND | 16.0 | <0.050 | <0.300 | <30 | |
| 5 | 2 | BH05-2' | ND | 32.0 | - | 1 | - | |
| 5 | 3 | BH05-3' | 120 | 32.0 | ı | I | - | |
| 5 | 4 | BH05-4' | ND | 32.0 | 1 | ı | - | |
| 5 | 6 | BH05-6' | ND | 16.0 | - | - | - | |
| 5 | 9 | BH05-9' | ND | 16.0 | - | - | - | |
| 5 | 14 | BH05-14' | ND | <16.0 | - | ı | - | |
| 6 | 1 | BH06-1' | 556 | 432 | - | - | - | |
| 6 | 2 | BH06-2' | 1360 | 1300 | - | - | - | |
| 6 | 3 | BH06-3' | 1552 | 2040 | - | - | - | |
| 6 | 4 | BH06-4' | ND | 32.0 | - | - | - | |
| 6 | 6 | BH06-6' | ND | 16.0 | - | - | - | |
| 6 | 11 | BH06-11' | ND | 32.0 | - | - | - | |
| 6 | 14 | BH06-14' | ND | 16.0 | - | - | - | |
| NMOCD T | nresholds | | | 600 | 10 | 50 | 5000 | |

BOLD results indicate results above RRAL

⁻ indicates tests were not ran

APPENDIX C.2

DELINEATION REPORT

DELINEATION LABORATORY REPORT



June 20, 2018

JACE CARAWAY

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: SLICK MESA

Enclosed are the results of analyses for samples received by the laboratory on 06/08/18 9:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RX-SOIL INC.

JACE CARAWAY

201 MAIN STREET, SUITE 1360

FORT WORTH TX, 76102

Fax To: NA

Received: 06/08/2018
Reported: 06/20/2018
Project Name: SLICK MESA

Project Name: SLICK MESA
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/05/2018 Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH01 - 1' (H801574-01)

| BTEX 8021B | mg/kg | | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/19/2018 | ND | 1.70 | 85.1 | 2.00 | 1.68 | |
| Toluene* | <0.050 | 0.050 | 06/19/2018 | ND | 1.69 | 84.4 | 2.00 | 1.34 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/19/2018 | ND | 1.69 | 84.4 | 2.00 | 2.46 | |
| Total Xylenes* | 0.226 | 0.150 | 06/19/2018 | ND | 5.29 | 88.1 | 6.00 | 2.26 | |
| Total BTEX | <0.300 | 0.300 | 06/19/2018 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 133 | % 69.8-14 | 2 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3920 | 16.0 | 06/12/2018 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <50.0 | 50.0 | 06/19/2018 | ND | 175 | 87.7 | 200 | 3.59 | |
| DRO >C10-C28* | 199 | 50.0 | 06/19/2018 | ND | 168 | 83.8 | 200 | 4.94 | |
| EXT DRO >C28-C36 | <50.0 | 50.0 | 06/19/2018 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 76.8 | % 41-142 |) | | | | | | |
| Surrogate: 1-Chlorooctadecane | 71.3 | % 37.6-14 | 7 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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RX-SOIL INC.

JACE CARAWAY

201 MAIN STREET, SUITE 1360

FORT WORTH TX, 76102

Fax To: NA

Received: 06/08/2018 Reported: 06/20/2018

Project Name: SLICK MESA
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/05/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: RH01 - 2' (H801574-02)

| Sample ID: BH01 - 2' (H | - | | | | | | | | |
|-------------------------|------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4240 | 16.0 | 06/12/2018 | ND | 416 | 104 | 400 | 0.00 | |
| Sample ID: BH01 - 3' (H | 801574-03) | | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2040 | 16.0 | 06/12/2018 | ND | 416 | 104 | 400 | 0.00 | |
| Sample ID: BH01 - 4' (H | 801574-04) | | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1800 | 16.0 | 06/12/2018 | ND | 416 | 104 | 400 | 0.00 | |
| Sample ID: BH01 - 6' (H | 801574-05) | | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1620 | 16.0 | 06/12/2018 | ND | 416 | 104 | 400 | 0.00 | |
| Sample ID: BH01 - 9' (H | 801574-06) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1380 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 0.00 | QM-07 |

Cardinal Laboratories *=Accredited Analyte

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

Received: 06/08/2018 Sampling Date: 06/05/2018 Reported: 06/20/2018 Sampling Type: Soil

Project Name: SLICK MESA Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

| Sample ID: BH01 - 14' (H | 1801574-07) | | | | | | | | |
|--------------------------|-------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 896 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 0.00 | |
| Sample ID: BH01 - 19' (H | 1801574-08) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 416 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 0.00 | |
| Sample ID: BH01 - 24' (H | 1801574-09) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 0.00 | |
| Sample ID: BH01 - 29' (H | 1801574-10) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 112 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 0.00 | |
| Sample ID: BH01 - 34' (H | 1801574-11) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |

Cardinal Laboratories *=Accredited Analyte

ND

432

108

06/12/2018

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80.0

16.0

Chloride

0.00

400



RX-SOIL INC. JACE CARAWAY

201 MAIN STREET, SUITE 1360 FORT WORTH TX, 76102

Fax To: NA

Received: 06/08/2018

3/2018 Sampling Date:
3/2018 Sampling Type:

Reported: 06/20/2018
Project Name: SLICK MESA
Project Number: NONE GIVEN

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

06/05/2018

Soil

Project Location: NONE GIVEN

Sample ID: BH01 - 39' (H801574-12)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

Chloride 144 16.0 06/12/2018 ND 432 108 400 0.00

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Celleg D. Freine



RX-SOIL INC.

JACE CARAWAY

201 MAIN STREET, SUITE 1360

FORT WORTH TX, 76102

Fax To: NA

 Received:
 06/08/2018
 Sampling Date:
 06/05/2018

 Reported:
 06/20/2018
 Sampling Type:
 Soil

Project Name: SLICK MESA Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: BH02 - 1' (H801574-13)

| BTEX 8021B | mg/ | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/19/2018 | ND | 1.70 | 85.1 | 2.00 | 1.68 | |
| Toluene* | <0.050 | 0.050 | 06/19/2018 | ND | 1.69 | 84.4 | 2.00 | 1.34 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/19/2018 | ND | 1.69 | 84.4 | 2.00 | 2.46 | |
| Total Xylenes* | <0.150 | 0.150 | 06/19/2018 | ND | 5.29 | 88.1 | 6.00 | 2.26 | |
| Total BTEX | <0.300 | 0.300 | 06/19/2018 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 103 9 | % 69.8-14 | 2 | | | | | | |
| Chloride, SM4500CI-B | mg/ | /kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3920 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/19/2018 | ND | 175 | 87.7 | 200 | 3.59 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/19/2018 | ND | 168 | 83.8 | 200 | 4.94 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/19/2018 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 82.0 | % 41-142 | ? | | | | | | |
| Surrogate: 1-Chlorooctadecane | 68.8 | % 37.6-14 | 7 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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

Received: 06/08/2018 Sampling Date: 06/05/2018 Reported: 06/20/2018 Sampling Type: Soil

Project Name: SLICK MESA Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker NONE GIVEN

Project Location: NONE GIVEN

| Sample ID: BH02 - 2' (H8 | 301574-14) | | | | | | | | |
|--------------------------|------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4160 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 0.00 | |
| Sample ID: BH02 - 3' (H8 | 301574-15) | | | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3840 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 0.00 | |
| Sample ID: BH02 - 4' (H8 | 301574-16) | | | | | | | | |
| Chlorida CM4F00CL B | ,015/4 10/ | /Irm | Analyses | d Bur AC | | | | | |

| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5440 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 0.00 | |

Sample ID: BH02 - 4.5' (H801574-17)

| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3600 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 0.00 | |

Sample ID: BH02 - 9.5' (H801574-18)

| p | (| | | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Chloride, SM4500CI-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2200 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 0.00 | |

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

Fax To: NA

Received: 06/08/2018 Sampling Date:

06/05/2018

Reported: Project Name: 06/20/2018 SLICK MESA Sampling Type:

Soil Cool & Intact

Project Number: Project Location:

Analyte

Analyte

Analyte

NONE GIVEN NONE GIVEN Sampling Condition: Sample Received By:

Tamara Oldaker

Sample ID: BH02 - 14' (H801574-19)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

BS

% Recovery

True Value QC RPD

Qualifier

Chloride

160

Result

Result

16.0 06/12/2018 Method Blank ND

432

108

400

0.00

Sample ID: BH02 - 19.5' (H801574-20)

Chloride, SM4500Cl-B

Reporting Limit

16.0

Reporting Limit

Analyzed By: AC

Chloride

192

Reporting Limit Analyzed 06/12/2018

Analyzed

Analyzed

Method Blank

ND

BS 432 % Recovery 108

True Value QC 400

RPD

0.00

Qualifier

Sample ID: BH02 - 24' (H801574-21)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank

% Recovery

True Value QC

RPD

Qualifier

Chloride

Result 192

16.0 06/12/2018 ND

BS 432

108

400

0.00

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06/05/2018



Analytical Results For:

RX-SOIL INC.

JACE CARAWAY

201 MAIN STREET, SUITE 1360

FORT WORTH TX, 76102

Fax To: NA

Received: 06/08/2018 Sampling Date: Reported: 06/20/2018 Sampling Type:

Reported:06/20/2018Sampling Type:SoilProject Name:SLICK MESASampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: BH03 - 1' (H801574-22)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Benzene* | <0.050 | 0.050 | 06/19/2018 | ND | 1.70 | 85.1 | 2.00 | 1.68 | |
| Toluene* | <0.050 | 0.050 | 06/19/2018 | ND | 1.69 | 84.4 | 2.00 | 1.34 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/19/2018 | ND | 1.69 | 84.4 | 2.00 | 2.46 | |
| Total Xylenes* | <0.150 | 0.150 | 06/19/2018 | ND | 5.29 | 88.1 | 6.00 | 2.26 | |
| Total BTEX | <0.300 | 0.300 | 06/19/2018 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 105 9 | 69.8-14 | 2 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2880 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/19/2018 | ND | 175 | 87.7 | 200 | 3.59 | |
| DRO >C10-C28* | 74.2 | 10.0 | 06/19/2018 | ND | 168 | 83.8 | 200 | 4.94 | |
| EXT DRO >C28-C36 | 10.9 | 10.0 | 06/19/2018 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 76.5 | % 41-142 |) | | | | | | |
| Surrogate: 1-Chlorooctadecane | 71.4 | % 37.6-14 | 7 | | | | | | |

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06/05/2018



Analytical Results For:

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

Received: 06/08/2018 Sampling Date: Reported: 06/20/2018 Sampling Type:

Soil Project Name: SLICK MESA Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker NONE GIVEN

Project Location: NONE GIVEN

| Sample ID: BH03 - 2' (H | 801574-23) | | | | | | | | |
|-------------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Chloride, SM4500Cl-B | mg | mg/kg | | Analyzed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2800 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 0.00 | |
| | | | | | | | | | |
| Sample ID: BH03 - 3' (H | 801574-24) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1120 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 0.00 | |
| | | | | | | | | | |

Sample ID: BH03 - 4' (H801574-25)

| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1390 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 0.00 | |

Sample ID: BH03 - 6' (H801574-26)

| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AC | | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1250 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | QM-07 | |

Sample ID: BH03 - 10' (H801574-27)

| Chloride, SM4500Cl-B | n | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 576 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | |

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RX-SOIL INC.

JACE CARAWAY

201 MAIN STREET, SUITE 1360

FORT WORTH TX, 76102

Fax To: NA

Received: 06/08/2018 Reported: 06/20/2018

Project Name: SLICK MESA
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/05/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH03 - 15' (H801574-28)

| Chloride, SM4500Cl-B | mg | /kg | Analyze | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 448 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | |
| | | | | | | | | | |

Sample ID: BH03 - 19' (H801574-29)

| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 336 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | |

Sample ID: BH03 - 21' (H801574-30)

ma/ka

Chlorido CM4E00CL P

| Cilioride, SM4500CI-B | Allalyze | u by. AC | | | | | | | |
|-----------------------|----------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | |

Applyand By AC

Sample ID: BH03 - 26' (H801574-31)

| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | |

Sample ID: BH03 - 31' (H801574-32)

| · · · · · · · · · · · · · · · · · · · | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | | | |
|---------------------------------------|---|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Chloride, SM4500Cl-B | mg/ | kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | |

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RX-SOIL INC.

JACE CARAWAY

201 MAIN STREET, SUITE 1360

FORT WORTH TX, 76102

Fax To: NA

Received: 06/08/2018
Reported: 06/20/2018

Project Name: SLICK MESA
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/05/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH04 - 1' (H801574-33)

| Chloride, SM4500Cl-B | mg | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 208 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | |
| | | | | | | | | | |

Sample ID: BH04 - 2' (H801574-34)

| Chloride, SM4500Cl-B | mg/ | /kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | |

Sample ID: BH04 - 3' (H801574-35)

ma/ka

Chlorido CM4E00CL P

| Cilioride, SM4500CI-B | ilig | rkg | Allalyze | u by: AC | | | | | |
|-----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 256 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | |

Applyand By AC

Sample ID: BH04 - 4' (H801574-36)

| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 624 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | |

Sample ID: BH04 - 6' (H801574-37)

| | , | | | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| 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 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | |

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

Fax To: NA

Received: 06/08/2018

/2018 Sampling Date: /2018 Sampling Type:

Reported: 06/20/2018
Project Name: SLICK MESA
Project Number: NONE GIVEN

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

06/05/2018

Soil

Project Location: NONE GIVEN

Sample ID: BH04 - 11' (H801574-38)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 32.0 16.0 06/12/2018 ND 432 108 400 3.64

Sample ID: BH04 - 16' (H801574-39)

Chloride, SM4500Cl-B Analyzed By: AC Reporting Limit Analyzed BS RPD Analyte Result Method Blank % Recovery True Value QC Qualifier Chloride 48.0 16.0 432 400 3.64 06/12/2018 ND 108

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Celeg D. Frene

06/07/2018

Tamara Oldaker



Analytical Results For:

RX-SOIL INC.

JACE CARAWAY

201 MAIN STREET, SUITE 1360

FORT WORTH TX, 76102

Fax To: NA

Received: 06/08/2018 Reported: 06/20/2018

06/20/2018 Sampling Type: Soil
SLICK MESA Sampling Condition: Cool & Intact

Sampling Date:

Sample Received By:

Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sample ID: BH05 - 1' (H801574-40)

Project Name:

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/19/2018 | ND | 1.70 | 85.1 | 2.00 | 1.68 | |
| Toluene* | <0.050 | 0.050 | 06/19/2018 | ND | 1.69 | 84.4 | 2.00 | 1.34 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/19/2018 | ND | 1.69 | 84.4 | 2.00 | 2.46 | |
| Total Xylenes* | <0.150 | 0.150 | 06/19/2018 | ND | 5.29 | 88.1 | 6.00 | 2.26 | |
| Total BTEX | <0.300 | 0.300 | 06/19/2018 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 105 9 | 69.8-14 | 2 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/19/2018 | ND | 175 | 87.7 | 200 | 3.59 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/19/2018 | ND | 168 | 83.8 | 200 | 4.94 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/19/2018 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 66.0 | % 41-142 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 55.3 | % 37.6-14 | 7 | | | | | | |

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Celley D. Frence

06/07/2018



Analytical Results For:

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

Received: 06/08/2018 Reported: 06/20/2018

Sampling Type: Soil Project Name: SLICK MESA Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Sampling Date:

Project Location: NONE GIVEN

| Sample ID: BH05 - 2' (H86 | 01574-41) | | | | | | | | |
|---------------------------|-----------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | |
| Sample ID: BH05 - 3' (H86 | 01574-42) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | |
| Sample ID: BH05 - 4' (H80 | 01574-43) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | |

Sample ID: BH05 - 6' (H801574-44)

| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | |

Sample ID: BH05 - 9' (H801574-45)

| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 06/12/2018 | ND | 432 | 108 | 400 | 3.64 | |

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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: 06/08/2018 Sampling Date: 06/07/2018 Reported: 06/20/2018 Sampling Type: Soil

Project Name: SLICK MESA Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

| Sample ID: BH05 - 14' (H | 1801574-46) | | | | | | | | |
|--------------------------|-------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 06/12/2018 | ND | 400 | 100 | 400 | 3.92 | |
| Sample ID: BH06 - 1' (H8 | 801574-47) | | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 432 | 16.0 | 06/12/2018 | ND | 400 | 100 | 400 | 3.92 | |
| Sample ID: BH06 - 2' (H8 | - | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1300 | 16.0 | 06/12/2018 | ND | 400 | 100 | 400 | 3.92 | |
| Sample ID: BH06 - 3' (H8 | 301574-49) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2040 | 16.0 | 06/12/2018 | ND | 400 | 100 | 400 | 3.92 | |
| Sample ID: BH06 - 4' (H8 | 301574-50) | | | | | | | | |
| Chloride, SM4500Cl-B | • | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 06/12/2018 | ND | 400 | 100 | 400 | 3.92 | |
| | | | | | | | | | |

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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: 06/08/2018 Sampling Date: 06/07/2018 Reported: Sampling Type: Soil 06/20/2018

Project Name: Sampling Condition: Cool & Intact SLICK MESA Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: BH06 - 6' (H801574-51)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 16.0 16.0 06/12/2018 400 3.92 ND 100 400

Sample ID: BH06 - 11' (H801574-52)

Chloride, SM4500Cl-B Analyzed By: AC BS RPD Analyte Result Reporting Limit Analyzed Method Blank % Recovery True Value QC Qualifier Chloride 32.0 16.0 06/12/2018 400 400 3.92 ND 100

Sample ID: BH06 - 14' (H801574-53)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 16.0 16.0 06/12/2018 ND 400 400 3.92 100

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

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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Celley D. Kreene



101 East Marland, Hobbs, NM 88240

| | (575) 393-2326 FAX (575) 393-2476 | 6 | | | | |
|--|--|--|--|--|---|---|
| ompany Name: | 71054N | | BILL TO | | ANALYSIS REQUEST | |
| roject Manager: | _ | | P.O. #: | | | _ |
| ddress: | | | Company: | | | |
| ity: | State: | Zip: | Attn: | | 8 | |
| e #: | 940-210-2051 Fax#: | | Address: | 0) | | |
| | Project Owner: | n | City: | 50 | | |
| roject Name: | | | State: Zip: | (4 | | |
| roject Location: | SLILLIK MEST | | Phone #: | 5 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | |
| Sampler Name: | TALOB 1 | | Fax#: | | | |
| FOR LAB USE ONLY | - | MATRIX | PRESERV. SAMPLING | | | |
| Lab I.D. H801574 | Sample I.D. | # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL | SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: | TIME | BTEX | |
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| es co | 1 | | | | | |
| H | BH01 - 4" | | | | | |
| a | BH01 - 6 | | | | | |
| 6 | ١ | | | | | |
| 2 | BH01 - 14 | | | | | |
| 8 | BH01 - 19 | | | | | |
| 2 | BH01 - 24 | | | | | |
| 10 | BH01 - 29 | 1 | netract or fort shall be limited to the arroun | II 00 | | |
| PLEASE NOTE: Liability a analyses, All claims, includ service. In no event shall (| PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contribut or long, clean within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal days after completion of the applicable in the state of the cause what is a shall be caused to be a shall be deemed by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequential damages, including without installing, based use, or loss of profits incurred by client, its subsidiaries. | or any claim arising whether based in or be deemed waived unless made in writi- fing without limitation, business interrup | utulaça or tori, seus ora seusou or me seusou ing and received by Cardinal within 30 days abors, loss of use, or loss of profile incurred chaim is bessed upon any of the above station | s after completion of the applic d by client, its subsidiaries, ed reasons or otherwise. | | |
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| Relinquished By: | | Received By: | | | | |

Page 19 of 26

Relinquisped By:

Date: Time:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Cool Intact
Tyes Tyes
No No No

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East Marland, Hobbs, NM 88240

| (5 | (575) 393-2326 FAX (575) 393-2476 | 0 | DII 1 7/ | | | ANALYSIS REQUEST |
|--|--|---|---|---|---------------|------------------|
| Company Name: | RXSOIL | PER | DILL IO | - | 1 | |
| Project Manager: | THE CHAWAY | - | P.O. #: | | | |
| Address: | | 0 | Company: | | | |
| City: | State: | Zip: | Attn: | | _ | |
| e #: | 940-210-2051 Fax#: | | Address: | | | |
| •• | Project Owner: | | City: | | | |
| ame: | SLICK NEST | | State: Zip: | | | |
| 9 | | | Phone #: | | | |
| Campler Name | THOS MILKIE | | Fax #: | | _ | |
| Sampler Name. | k | MATRIX | ESERV. | SAMPLING | | |
| FOR LAB USE ONLY | | ERS ATER TER | | OKI | ONL | |
| Lab I.D. HSのについ | Sample I.D. | G)RAB OR # CONTAINI GROUNDW WASTEWAT SOIL OIL SLUDGE | OTHER: ACID/BASE ICE / COOL OTHER: | TIME | CHI | |
| 1101011 | | 7 | _ | x 0011 50 | | |
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| 12 | BHM - 39" | * | 1 040 | llar | | |
| | | | | | | |
| PLEASE NOTE: Liability an analyses, All claims, include service, in no event shall C | and client's exclusive tem rother cause whatsoever s r consequental damages, i | sdy for any claim arising whether based in contract or fort, shall be limited to the art shall be deterned waived unless made in willing and received by Cardinal within 30 nebulging without limitation, business interruptions, bets of use, or loss of profits inc due by Cardinal, regardless of whether such claim is based upon any of the above | or fort, shall be limited to the arro d received by Cardinal within 30 d loss of use, or loss of profits incur is basied upon arry of the above st | ount paid by the client for the ays after completion of the ag- red by client, its subsidiaries, alted reasons or otherwise. | ble | |
| Relinquished By: | Out of or resistant to the performance of the Section of the Secti | | Makey | Phone Result: Fax Result: REMARKS: | t: □ Yes □ No | Add'i Fax #: |

Page 20 of 26

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Time:

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| Company Name: | XXX671 | | Distriction of the last | | |
|--|--|---|---|-------------------------------------|--------------------------------|
| Project Manager: | . 12 | P.O. #: | | 8 | |
| Address: | | Company: | ıy: | 1/1 | |
| City: | State: | Zip: Attn: | | 14 | |
| Phone #: | Fax#: | Address: | Si | leci | |
| Project #: | Project Owner: | er: City: | | ld | |
| Project Name: | SLICK MESH | State: | Zip: | aa | |
| Project Location: | | Phone #: | # | | |
| ampler Name | THAR MALLE | Fax #: | | | |
| Sampler Name: | k | MATRIX PRE | PRESERV. SAMPLING | | |
| Lab I.D. | Sample I.D. | G)RAB OR (C)OMP. CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: | OTHER: | BTEX TPHEX | |
| SI CIO E | 1 | # # G | 06/05 | - * × | |
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| PLEASE NOTE: Uability as analyses. All claims including service. In no event shall C | PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or toot, shall be limited to the amount pold by the client for the analyses. All claims including those for negligence and any other cause whateverse shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable removes in no event shall Cardinal be labels for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitutions. | ents exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the cause whitstonever shall be deemed waived unless made in writing and received by Cantinal within 30 days after completion of the a quential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by cleent, its subsidiaries. | be limited to the amount paid by the client for the y Cardinal within 30 days after completion of the ay or loss of profits incurred by client, its subsidiaries, and the subsidiaries of the profits | or the the applicable saries, | |
| Relinquished By: | g out of or related to the performance r: | Received By: Received By: Received By: | n any of the above standard rescores or one-wase. Phone Result: Fax Result: REMARKS: | It: Yes No | Add'l Phone #: Add'l Fax #: |
| Delivered By: (Circle One) | Delivered By: (Circle One) 3.82 | Sample Condition Cool Intact | CHECKED BY: | | |



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| roject Manager: FACE CACAWAY | | P.O. #: | | 8 | | |
| | | Company: | | 11 | | |
| State: | Zip: | Attn: | | 6 | | |
| phone #: 940-210-2051 Fax #: | | Address: | | ed | | |
| | | City: | | d | | |
| ame: SLICK MESA | | State: Zip: | | id | | |
| on: | | Phone #: | | -6 | | |
| Sampler Name: JALOB MILKLE | | Fax #: | | > | | |
| " Officers ! | MATRIX | PRESERV. SAMPLING | | <i>t</i> | | _ |
| Lab I.D. Sample I.D. | # CONTAINERS GROUNDWATER WASTEWATER | | | BJEX | | |
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| BH03- | | | | | | |
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| BHOS - | | <u></u> | 3471 | | | |
| er cause whatso | remady for any claim arising whether based in contract or tort, shall be limited to the amount paid by the claim for the ever shall be deemed waived unless made in writing and received by Cardinal within 30 days after compiletion or the a second of the an experience intermittent base of tops of tops of profits incurred by client, its subdictanties | I do no contract or tord, shall be limited to the amount paid by the cleant for the writing and received by Cardinal within 30 days after completion of the at a writing and received by Cardinal within 30 days after completion of the at a writing and received by Cardinal within a completion of the at a writing and received by cleant, its subsidiations. | d by the client for the er completion of the applica client, its subsidiaries. | 8 | | |
| service. In no event shall Cardinal be liable for inconnate or consequential annual sililation or successors arising out of or related to the performance of services beet Relinquished By: | Received By: Received By: Received By: | Makkel | Phone Result: Fax Result: REMARKS: | Yes No | Add'l Phone #: Add'l Fax #: | |
| Time: | | | | | | |
| Delivered By: (Circle One) 2.86 | Sample Condition | ition CHECKED BY: | | | | |

Page 22 of 26



101 East Marland, Hobbs, NM 88240

| Company Name: | RYGT/ | | BILL TO | ANALYSIS | KEWOEST |
|---------------------|--------------------|--|-------------|----------|---------|
| Project Manager: | THE CARAWA | P.O. #: | | | |
| Address: | | Company: | | | |
| City: | State: | Zip: Attn: | | | |
| e #: | 940-210-2051 Fax#: | Address: | | | |
| | Project Owner: | er: City: | | | |
| ame: | SLILK MEST | State: | Zip: | - | |
| 5 | | Phone #: | | | |
| Sampler Name: | THOS MICKLE | Fax #: | | 3 | |
| A INC. SSIT BY LEGS | - 1 | MATRIX PRESERV | W. SAMPLING | DE | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL | | CHLORIL | |
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Fax Result: REMARKS:

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Add'I Fax #:

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Page 23 of 26



101 East Marland, Hobbs, NM 88240

| | (575) 393-2326 FAX (575) 393-2476 | 76 | | | |
|--|--|--|--|---|------------------|
| Company Name: | Mrss11 | | BILL TO | | ANALYSIS REQUEST |
| Project Manager: | 9 | | P.O. #: | | |
| Address: | | | Company: | | |
| City: | State: | Zip: | Attn: | | |
| e #: | 940-210-2051 Fax#: | | Address: | | |
| | | er: | City: | | |
| Project Name: | SLICK MESA | | State: Zip: | | |
| Project Location: | | | Phone #: | 75 | |
| Sampler Name: | THUB MILKLE | | 1 | | |
| FOR LAB USE ONLY | The second secon | MATRIX | PRESERV. SAMPLING | | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OME # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL | SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE | CHICH | |
| 55 CIOON | 13H04-1 | - 7 | x 06/05 | 1715 × | |
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| 35 | 4- | | | | |
| 36 | BH04- 4 | | | | |
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| 799 | BHO4- 16 | 1 | \ \ | 1 86 | |
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50:52 July Date: 8 7 8

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REMARKS: Fax Result:

□ Yes

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Page 24 of 26



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

| 15 | מוטן טטטיבטבט ו היה וטיטן טטט ביי | | | | ANALYSIS REQUEST | TT TT |
|--|--|--|---|--|---|-------|
| ompany Name: | RXSOSL | | BILL 10 | | 100 | |
| roject Manager: | JACE CHRYLLY | | P.O. #: | | 7 | |
| ddress: | | | Company: | | | |
| ity: | State: | Zip: | Attn: | | 96 | |
| hone #: 946 - | 210-2015 Fax#: | | Address: | | led | |
| | | 77. | City: | | ld | |
| roject Name: | STITY WEST | | State: Zip: | | 00 | |
| roject Location: | | | Phone #: | 5 | > | |
| ampler Name: | THINGS MILKLE | | Fax #: | DE | <i>t'</i> | |
| FOR LAB USE ONLY | 4 | MATRIX | PRESERV. SAMPLING | | × | |
| Lab I.D. H801574 | Sample I.D. | # CONTAINERS GROUNDWATER WASTEWATER | OTHER: ACID/BASE: ICE / COOL OTHER: | TIME | SJEX TPHE | |
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| hi hi | DH05- 6. | | | | | |
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| PLEASE NOTE: Liability and Damages. unalyses. All claims including those for r service. In no searct shall Cardinal be life. | PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remady for any daim arising whether bessed in contract or ton, shall be limited to the amount paid by the client for the amount paid by the client for the amplicable analyses. All claims including those for negligence and any other cause whateoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whateoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable. | or any claim arising whether based in corts be deemed waived unless made in writing dang without limitation, business interruption | act or tot, shall be limited to the amount pa and received by Cardinal within 30 days aft re, toos of use, or loss of profits incurred by | unt paid by the client for the ays after completion of the applicable red by client, its subsidiaries. | | |
| Relinquished By: | y: Date: | der by Cardinal, regardless of whether such day Received By: Received By: | a Milliable | ਜ਼ | ☐ Yes ☐ No Add'l Phone #: ☐ Yes ☐ No Add'l Fax #: | |
| Delivered By Sampler - UPS | Delivered By: (Circle One) 2.86 Sampler - UPS - Bus - Other: Community 2.75 | Sample Condition Cool Intact Cool Intact Fres Fres No No | dition CHECKED BY: (Initials) (Res 40.#7 | 1 | | |
| | The state of the s | | ١ | | | |

Page 25 of 26



| | (575) 393-2326 FAX (575) 393-2476 | o : | | | |
|---|--|---|--|--|--|
| ompany Name: | RXXIL | BILL TO | | ANALYSIS REQUEST | |
| roject Manager: | TACE CARAWAY | P.O.#: | | | |
| ddress: | | Company: | | | |
| ity: | State: | Zip: Attn: | | | |
| hone #: 940 - | -210 - 2051 Fax #: | Address: | | | |
| | Project Owner: | city: | 1 | | |
| roject Name: | SLICK MESK | State: Zip: | | | |
| roject Location: | | Phone #: | | | |
| ampler Name: | THOS MICKLE | Fax#: | | | |
| FOR LAB USE ONLY | , | MATRIX PRESERV. SAM | SAMPLING | | |
| Lab I.D. | Sample I.D. | OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: | TIME | | |
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| PLEASE NOTE: Liability an | d Damages. Cardinal's lability and client's exclusive remody (ng those for negligence and any other cause whatkoever shall see the label for resolution or resolution and a label see the label for resolution or resolution and see the label for resolution or resolutio | PLEASE NOTE: Lability and Damages. Cardinal's lability and client's exclusive remety for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever challe be deemed waived unless made in writing and received by Cardinal within 30 days after competion of the applicable analyses. All claims including those for negligence and any other cause whatsoever challed on white owners waived unless made in writing and received by Cardinal within 30 days after competion of the applicable. | unt paid by the client for the ays after completion of the applicable red by client, its subsidiaries, | | |
| afflates or successors artificing afflates or successors artificing Rellinquished By: Rellinquished By: Rellinquished By: | n out of or related to the performance: | Received By: Received By: Received By: | Phone Result: Fax Result: REMARKS: | Yes □ No Add'I Phone #: ☐ Yes □ No Add'I Fax #: | |
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Page 26 of 26

APPENDIX C.3

DELINEATION REPORT

DELINEATION DIGITAL FIELD NOTES



Form Information

Form Name: RXSoil Field Test

Submitter Name: Jacob Mickle (jacob.mickle@rxsoil.solutions)

Reference Number: 20180608-1880309853

Location: 2708 Scenic Dr, Hobbs, NM 88240, USA
Jun 7, 2018 10:06:26 PM MDT [<u>View Map</u>]

Project Overview

Client Name Travelers Insurance

Project Name Slick Mesa
Type of Form Field Test

Date/Time Jun 7, 2018 1:06:08 PM MDT

RXSoil Sampler Jacob Mickle

Sample 1

Type of Field Test Soil

Method of Testing Sample to Lab

Name of Sample Point BH01-1'

Method of Sample Collecting DRILL RIG
Depth (inches) 12"

Comments FIELD TEST: CHLORIDES (1:4)
LOW: -

HIGH: 5.6 = 5,164 PPM

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:20:18 PM MDT [View Map]



Sample 2

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Soil

Sample to Lab

BH01-2'

DRILL RIG

24"

FIELD TEST: CHLORIDES (1:4)

LOW: -

HIGH: 2.4 = 1,272 PPM

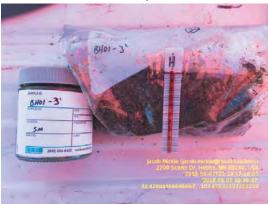
Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:20:21 PM MDT [<u>View Map</u>]

Sample 3

Type of Field Test Method of Testing Name of Sample Point Soil Sample to Lab BH01-3' Method of Sample Collecting Depth (inches) Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Jh

DRILL RIG

36"

FIELD TEST: CHLORIDES (1:4)

LOW: -

HIGH: 3.0 = 1,732 PPM

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:20:25 PM MDT [<u>View Map</u>]

Sample 4

Type of Field Test Method of Testing Name of Sample Point Method of Sample Collecting Depth (inches)

Comments

Picture of Result or Sample Taken

Soil

Sample to Lab

BH01-4'

DRILL RIG

48"

FIELD TEST: CHLORIDES (1:4)

LOW: -

HIGH: 3.0 = 1,732 PPM



Lab Name sample location

Team Leader Signature

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:20:29 PM MDT [<u>View Map</u>]

Sample 5

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Soil

Sample to Lab

BH01-6'

DRILL RIG

6'

FIELD TEST: CHLORIDES (1:4)

LOW: -

HIGH: 2.6 = 1,416 PPM

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:20:33 PM MDT [<u>View Map</u>]

Team Leader Signature



Sample 6

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

M

Soil

Sample to Lab BH01-9' DRILL RIG

9'

FIELD TEST: CHLORIDES (1:4)

LOW: -

HIGH: 2.2 = 1,136 PPM

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:20:36 PM MDT [<u>View Map</u>]

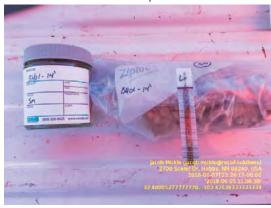
Sample 7

Type of Field Test Method of Testing Soil

Sample to Lab

Name of Sample Point Method of Sample Collecting Depth (inches) Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature



BH01-14'
DRILL RIG
14'
FIELD TEST: CHLORIDES (1:

FIELD TEST: CHLORIDES (1:4) LOW: 4.2 = 612 PPM HIGH: -

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:20:40 PM MDT [<u>View Map</u>]

Sample 8

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken

Soil Sample to Lab BH01-19' DRILL RIG 19'

FIELD TEST: CHLORIDES (1:4) LOW: 3.0 = 392 PPM

HIGH: -



Lab Name sample location

Team Leader Signature

gn

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:20:44 PM MDT [<u>View Map</u>]

Sample 9

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Soil

Sample to Lab

BH01-24'

DRILL RIG

24'

FIELD TEST: CHLORIDES (1:4)

LOW: 2.4 = 288 PPM

HIGH: -

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:20:47 PM MDT [<u>View Map</u>]

Team Leader Signature



Sample 10

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments



Lab Name sample location

Team Leader Signature

Soil

Sample to Lab BH01-29' DRILL RIG 29'

FIELD TEST: CHLORIDES (1:4)

LOW: 2.0 = 228 PPM

HIGH: -

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:20:51 PM MDT [<u>View Map</u>]

Sample 11

Type of Field Test Method of Testing Soil

Sample to Lab

Name of Sample Point Method of Sample Collecting Depth (inches) Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Cardinal Labs

BH01-34'

HIGH: -

DRILL RIG

FIELD TEST: CHLORIDES (1:4) LOW: 1.6 = 176 PPM

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:20:55 PM MDT [<u>View Map</u>]

Sample 12

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken

Soil

Sample to Lab BH01-39' DRILL RIG

39'

FIELD TEST: CHLORIDES (1:4)

LOW: 2.0 = 228 PPM

HIGH: -



Lab Name sample location

Team Leader Signature

Cardinal Labs
Unnamed Road, Eunice, NM 88231, USA
Jun 7, 2018 3:21:00 PM MDT [<u>View Map</u>]



Form Information

Form Name: RXSoil Field Test

Submitter Name: Jacob Mickle (jacob.mickle@rxsoil.solutions)

Submission Date: Jun 7, 2018 10:29:35 PM MDT Server Receive Date: Jun 7, 2018 10:29:42 PM MDT

Reference Number: 20180608-1880309857

Location: 2708 Scenic Dr, Hobbs, NM 88240, USA
Jun 7, 2018 10:06:26 PM MDT [<u>View Map</u>]

Project Overview

Client Name Travelers Insurance

Project Name Slick Mesa
Type of Form Field Test

Date/Time Jun 7, 2018 2:41:27 PM MDT

RXSoil Sampler Jacob Mickle

Sample 1

Type of Field Test Soil

Method of Testing Sample to Lab

Name of Sample Point BH02-1'

Method of Sample Collecting

DRILL RIG

Depth (inches) 12"

Comments FIELD TEST: CHLORIDES (1:4)

HIGH: 5.4 = 4,768 PPM

Domments FIELD TEST: CHLO LOW: -

Picture of Result or Sample Taken



Lab Name Cardinal Labs

sample location Unnamed Road, Eunice, NM 88231, USA
Jun 7, 2018 3:22:02 PM MDT [View Map]

Team Leader Signature



Sample 2

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Soil

Sample to Lab

BH02-2'

DRILL RIG

24"

FIELD TEST: CHLORIDES (1:4)

LOW: -

HIGH: 5.0 = 4,064 PPM

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:22:05 PM MDT [<u>View Map</u>]



Sample 3

Type of Field Test Method of Testing Name of Sample Point Soil Sample to Lab BH02-3' Method of Sample Collecting Depth (inches) Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

M

DRILL RIG

36"

FIELD TEST: CHLORIDES (1:4)

LOW: -

HIGH: 5.4 = 4,768 PPM

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:22:08 PM MDT [<u>View Map</u>]

Sample 4

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken

Soil

Sample to Lab

BH02-4'

DRILL RIG

48"

FIELD TEST: CHLORIDES (1:4)

LOW: -

HIGH: 4.6 = 3,460 PPM



Lab Name sample location

Team Leader Signature

JA

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:22:11 PM MDT [<u>View Map</u>]

Sample 5

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Soil

Sample to Lab

BH02-4.5'

DRILL RIG

4.5'

FIELD TEST: CHLORIDES (1:4)

LOW: -

HIGH: 4.6 = 3,460 PPM

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:22:14 PM MDT [<u>View Map</u>]

Team Leader Signature



Sample 6

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Soil

Sample to Lab BH02-9.5' DRILL RIG 9.5'

FIELD TEST: CHLORIDES (1:4)

LOW: -

HIGH: 3.0 = 1,732 PPM

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:22:17 PM MDT [<u>View Map</u>]

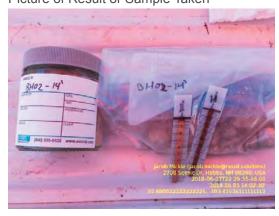
Sample 7

Type of Field Test Method of Testing Soil

Sample to Lab

Name of Sample Point Method of Sample Collecting Depth (inches) Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Cardinal Labs

BH02-14'

HIGH: -

DRILL RIG

FIELD TEST: CHLORIDES (1:4) LOW: 1.2 = ND

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:22:20 PM MDT [<u>View Map</u>]

Sample 8

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

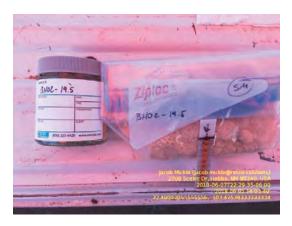
Picture of Result or Sample Taken

Soil

Sample to Lab BH02-19.5' DRILL RIG 19.5'

FIELD TEST: CHLORIDES (1:4) LOW: 1.8 = 196 PPM

HIGH: -



Lab Name sample location

Team Leader Signature

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:22:23 PM MDT [<u>View Map</u>]

Sample 9

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Soil

Sample to Lab BH02-24'

DRILL RIG

24'

FIELD TEST: CHLORIDES (1:4)

LOW: 1.6 = 172 PPM

HIGH: -

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:22:26 PM MDT [<u>View Map</u>]

Team Leader Signature





Form Information

Form Name: RXSoil Field Test

Submitter Name: Jacob Mickle (jacob.mickle@rxsoil.solutions)

Submission Date: Jun 7, 2018 10:29:44 PM MDT Server Receive Date: Jun 7, 2018 10:29:52 PM MDT

Reference Number: 20180608-1880309858

Location: 2708 Scenic Dr, Hobbs, NM 88240, USA
Jun 7, 2018 10:06:26 PM MDT [<u>View Map</u>]

Project Overview

Client Name Travelers Insurance

Project Name Slick Mesa
Type of Form Field Test

Date/Time Jun 7, 2018 2:01:45 PM MDT

RXSoil Sampler Jacob Mickle

Sample 1

Type of Field Test Soil

Method of Testing Sample to Lab

Name of Sample Point BH03-1'

Method of Sample Collecting DRILL RIG

Method of Sample Collecting

Depth (inches)

DRILL R

12"

Comments FIELD TEST: CHLORIDES (1:4)

LOW: -HIGH: 3.2 = 1,904 PPM

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:23:16 PM MDT [View Map]



Sample 2

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Soil

Sample to Lab

BH03-2'

DRILL RIG

24"

FIELD TEST: CHLORIDES (1:4)

LOW: -

HIGH: 3.2 = 1,904 PPM

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:23:19 PM MDT [<u>View Map</u>]

Sample 3

Type of Field Test Method of Testing Name of Sample Point Soil Sample to Lab BH03-3' Method of Sample Collecting Depth (inches) Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

M

DRILL RIG 36"

FIELD TEST: CHLORIDES (1:4) LOW: 5.0 = 908 PPM

HIGH: -

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:23:22 PM MDT [<u>View Map</u>]

Sample 4

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken

Soil

Sample to Lab

BH03-4' DRILL RIG

48"

FIELD TEST: CHLORIDES (1:4)

LOW: 5.4 = 1,056 PPM

HIGH: -



Lab Name sample location

Team Leader Signature

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:23:25 PM MDT [<u>View Map</u>]

Sample 5

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Soil

Sample to Lab

BH03-6'

DRILL RIG

6'

FIELD TEST: CHLORIDES (1:4)

LOW: -

HIGH: 2.4 = 1,272 PPM

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:23:28 PM MDT [<u>View Map</u>]



Sample 6

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

BH03-10' DRILL RIG 10'

Sample to Lab

FIELD TEST: CHLORIDES (1:4)

LOW: 4.0 = 612 PPM

HIGH: ND

Soil

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:23:31 PM MDT [<u>View Map</u>]

Sample 7

Type of Field Test Method of Testing Soil

Sample to Lab

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

DRILL RIG 15' FIELD TEST: CHLORIDES (1:4) LOW: 4.0 = 612 PPM HIGH: -

BH03-15'

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:23:34 PM MDT [<u>View Map</u>]

Sample 8

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken

Soil Sample to Lab BH03-19' DRILL RIG 19'

FIELD TEST: CHLORIDES (1:4) LOW: 3.0 = 392 PPM

HIGH: -



Lab Name sample location

Team Leader Signature

Cardinal Labs
Unnamed Road Fu

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:23:37 PM MDT [<u>View Map</u>]

Sample 9

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Soil
Sample to Lab
BH03-21'
DRILL RIG
21'
FIELD TEST: CHLORIDES (1:4)
LOW: 2.0 = 228 PPM
HIGH: -

Cardinal Labs
Unnamed Road, Eunice, NM 88231, USA
Jun 7, 2018 3:23:40 PM MDT [View Map]



Sample 10

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Soil

Sample to Lab BH03-26' DRILL RIG 26'

FIELD TEST: CHLORIDES (1:4)

LOW: 1.2 = ND

HIGH: -

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:23:47 PM MDT [<u>View Map</u>]

Sample 11

Type of Field Test Method of Testing Soil

Sample to Lab

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Cardinal Labs

BH03-31'

HIGH:

DRILL RIG

FIELD TEST: CHLORIDES (1:4) LOW: 0.8 = ND

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:23:51 PM MDT [View Map]



Form Information

Form Name: RXSoil Field Test

Submitter Name: Jacob Mickle (jacob.mickle@rxsoil.solutions)

 Submission Date:
 Jun 7, 2018 10:30:13 PM MDT

 Server Receive Date:
 Jun 7, 2018 10:30:21 PM MDT

 Reference Number:
 20180608-1880309859

Location: 20180006-1800309839 Location: 2708 Scenic Dr, Hobbs, NM 88240, USA

Jun 7, 2018 10:06:26 PM MDT [<u>View Map</u>]

Project Overview

Client Name Travelers Insurance

Project Name Slick Mesa
Type of Form Field Test

Date/Time Jun 7, 2018 2:56:23 PM MDT

RXSoil Sampler Jacob Mickle

Sample 1

Type of Field Test

Method of Testing

Sample to Lab

Name of Sample Point

BH04-1'

Method of Sample Collecting

Method of Sample Collecting DRILL RIG
Depth (inches) 12"

Comments FIELD TEST: CHLORIDES (1:4) LOW: 2.0 = 228 PPM

LOW. 2. HIGH: -

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:25:18 PM MDT [View Map]



Sample 2

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Soil

Sample to Lab

BH04-2'

DRILL RIG

24"

FIELD TEST: CHLORIDES (1:4)

LOW: 1.8 = 196 PPM

HIGH: -

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:25:21 PM MDT [<u>View Map</u>]



Type of Field Test Method of Testing Name of Sample Point Soil Sample to Lab

BH04-3'

Method of Sample Collecting Depth (inches) Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

JG

DRILL RIG 36"

FIELD TEST: CHLORIDES (1:4) LOW: 2.0 = 228 PPM

HIGH: -

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:25:24 PM MDT [<u>View Map</u>]

Sample 4

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken

Soil Sample to Lab BH04-4' DRILL RIG

48"

FIELD TEST: CHLORIDES (1:4)

LOW: 3.4 = 472 PPM

HIGH: -



Lab Name sample location

Team Leader Signature

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:25:27 PM MDT [<u>View Map</u>]

Sample 5

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Soil

Sample to Lab

BH04-6'

DRILL RIG

6'

FIELD TEST: CHLORIDES (1:4)

LOW: 1.0 = ND

HIGH: -

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:25:34 PM MDT [<u>View Map</u>]



Sample 6

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

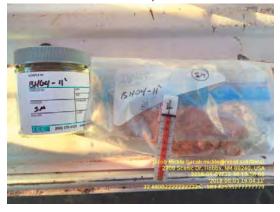
BH04-11' DRILL RIG 11'

Sample to Lab

Soil

FIELD TEST: CHLORIDES (1:4) LOW: 0.8 = ND HIGH: -

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:25:37 PM MDT [<u>View Map</u>]

Sample 7

Type of Field Test Method of Testing Soil

Sample to Lab

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

BH04-16'
DRILL RIG
16'
FIELD TEST: CHLORIDES (1:4)
LOW: 0.8 = ND

HIGH: -

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 3:25:41 PM MDT [<u>View Map</u>]



Form Information

Form Name: RXSoil Field Test

Submitter Name: Jacob Mickle (jacob.mickle@rxsoil.solutions)

Submission Date: Jun 7, 2018 10:30:25 PM MDT
Server Receive Date: Jun 7, 2018 10:30:33 PM MDT

Reference Number: 20180608-1880309862

Location: 2708 Scenic Dr, Hobbs, NM 88240, USA
Jun 7, 2018 10:06:26 PM MDT [<u>View Map</u>]

Project Overview

Client Name Travelers Insurance

Project Name Slick Mesa
Type of Form Field Test

Date/Time Jun 7, 2018 5:40:00 PM MDT

RXSoil Sampler Jacob Mickle

Sample 1

Type of Field Test Soil
Method of Testing Sample to Lab

Name of Sample Point BH05-1'
Method of Sample Collecting DRILL RIG

Depth (inches) 12"

Comments FIELD TEST: CHLORIDES (1:4)

LOW: 1.0 = ND HIGH: -

Picture of Result or Sample Taken



Lab Name Cardinal Labs

sample location Unnamed Road, Eunice, NM 88231, USA
Jun 7, 2018 6:06:40 PM MDT [View Map]

Team Leader Signature



Sample 2

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

M

Soil

Sample to Lab

BH05-2'

DRILL RIG

24"

FIELD TEST: CHLORIDES (1:4)

LOW: 1.0 = ND

HIGH: -

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 6:06:45 PM MDT [<u>View Map</u>]

Sample 3

Type of Field Test Method of Testing Name of Sample Point Soil Sample to Lab BH05-3' Method of Sample Collecting Depth (inches) Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

DRILL RIG
36"

FIELD TEST: CHLORIDES (1:4) LOW: 1.6 = 120 HIGH: -

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 6:06:48 PM MDT [<u>View Map</u>]

Sample 4

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken

Soil Sample to Lab BH05-4' DRILL RIG 48"

FIELD TEST: CHLORIDES (1:4)

LOW: 0.8 = ND

HIGH: -



Lab Name sample location

Team Leader Signature

24

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 6:06:51 PM MDT [<u>View Map</u>]

Sample 5

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Soil

Sample to Lab

BH05-6'

DRILL RIG

6'

FIELD TEST: CHLORIDES (1:4)

LOW: 0.8 = ND

HIGH: -

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 6:06:54 PM MDT [<u>View Map</u>]



Sample 6

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments



Lab Name sample location

Team Leader Signature

Soil

9'

Sample to Lab BH05-9' DRILL RIG

FIELD TEST: CHLORIDES (1:4)

LOW: 0.8 = ND

HIGH: -

Cardinal Labs

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 6:06:57 PM MDT [<u>View Map</u>]

Sample 7

Type of Field Test Method of Testing Soil

DRILL RIG

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

DRILL RIG

BH05-14'

HIGH: -

DRILL RIG

FIELD TEST: CHLORIDES (1:4) LOW: 1.0 = ND

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Form Information

Form Name: RXSoil Field Test

Submitter Name: Jacob Mickle (jacob.mickle@rxsoil.solutions)

 Submission Date:
 Jun 7, 2018 10:30:39 PM MDT

 Server Receive Date:
 Jun 7, 2018 10:30:46 PM MDT

 Reference Number:
 20180608-1880309863

Location: 2708 Scenic Dr, Hobbs, NM 88240, USA

Jun 7, 2018 10:06:26 PM MDT [View Map]

Project Overview

Client Name Travelers Insurance

Project Name Slick Mesa
Type of Form Field Test

Date/Time Jun 7, 2018 7:18:27 PM MDT

RXSoil Sampler Jacob Mickle

Sample 1

Type of Field Test Soil

Method of Testing Sample to Lab

Name of Sample Point BH06-1'

Method of Sample Collecting DRILL RIG

Depth (inches)

Comments

FIELD TEST: CHLORIDES (1:4)
LOW: 4.0 = 556 PPM

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Cardinal Labs

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Sample 2

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Cardinal Labs

Soil

24"

BH06-2'

HIGH: -

DRILL RIG

Sample to Lab

FIELD TEST: CHLORIDES (1:4)

LOW: 6.4 = 1,360 PPM

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Sample 3

Type of Field Test Method of Testing Name of Sample Point Soil Sample to Lab BH06-3' Method of Sample Collecting Depth (inches) Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Cardinal Labs

DRILL RIG

FIELD TEST: CHLORIDES (1:4)

LOW: 6.8 = 1,552 PPM

36"

HIGH: -

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Sample 4

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken

Soil

Sample to Lab BH06-4'

DRILL RIG

48"

FIELD TEST: CHLORIDES (1:4)

LOW: 1.0 = ND

HIGH: -



Lab Name sample location

Team Leader Signature

Cardinal Labs

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Sample 5

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Soil

Sample to Lab

BH06-6'

DRILL RIG

6'

FIELD TEST: CHLORIDES (1:4)

LOW: 0.8 = ND

HIGH: -

Cardinal Labs

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Sample 6

Type of Field Test
Method of Testing
Name of Sample Point
Method of Sample Collecting
Depth (inches)
Comments

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

Soil

Sample to Lab BH06-11' DRILL RIG 11'

FIELD TEST: CHLORIDES (1:4) LOW: 0.8 = ND

HIGH: -

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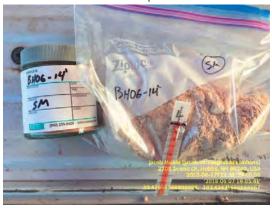
Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 7:19:05 PM MDT [<u>View Map</u>]



Type of Field Test Method of Testing Soil

Sample to Lab

Picture of Result or Sample Taken



Lab Name sample location

Team Leader Signature

BH06-14'
DRILL RIG
14'
FIELD TEST: CHLORIDES (1:4)
LOW: 0.8 = ND

Cardinal Labs

HIGH: -

Unnamed Road, Eunice, NM 88231, USA Jun 7, 2018 7:19:08 PM MDT [<u>View Map</u>]

APPENDIX D

DELINEATION REPORT

SITE PICTURES

Appendix D. Site Pictures



Figure 1: This drone image was captured from the east of the spill area (06/04/2018).



Figure 2: Image taken from east side of the spill area (06/05/18)



Figure 3: The spoon used for vertical delineation is shown (06/05/18).