



Remediation Summary and Site Closure Request

July 3, 2019

A handwritten signature in blue ink, appearing to read "Jared Stoffel", written over a horizontal line.

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Carmen 3 Federal Com #1H
(2RP-5198)

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TABLE OF CONTENTS

| | | |
|-----|---|---|
| 1.0 | INTRODUCTION AND BACKGROUND INFORMATION | 1 |
| 2.0 | INITIAL DELINEATION INVESTIGATION | 2 |
| 3.0 | SUMMARY OF SOIL REMEDIATION ACTIVITIES | 3 |
| 4.0 | SITE CLOSURE REQUEST | 5 |
| 5.0 | LIMITATION..... | 5 |
| 6.0 | DISTRIBUTION..... | 6 |

TABLES

Table 1: Concentrations of Benzene, BTEX, TPH and Chloride in Soil

FIGURES

Figure 1: Topographic Map

Figure 2: Aerial Map

Figure 3: Flood Plain Map

Figure 4: Karst Potential Map

Figure 5: Site and Sample Location Map – Initial Investigation

Figure 6: Site and Confirmation Sample Location Map

APPENDICES

Appendix A – Photographic Documentation

Appendix B – Release Notification and Corrective Action (Form C-141)

Appendix C – Laboratory Analytical Reports

Appendix D – Depth to Groundwater Data

ACRONYM LIST

| | |
|-------------------|--|
| bbls | barrels |
| bgs | below ground surface |
| BLM | Bureau of Land Management |
| BTEX | Benzene, Toluene, Ethylbenzene, Xylenes |
| COG | COG Operating, LLC |
| DRO | Diesel Range Organics |
| Form C-141 | Release Notification and Corrective Action |
| GRO | Gasoline Range Organics |
| NMOCD | New Mexico Oil and Conservation Division |
| ORO | Oil Range Organics |
| TPH | Total Petroleum Hydrocarbons |
| TRC | TRC Environmental Corporation |

1.0 Introduction and Background Information

TRC Environmental Corporation (TRC), on behalf of COG Operating, LLC (COG), has prepared this *Remediation Summary and Site Closure Request* for the Release Site known as the Carmen 3 Federal Com #1H (the Site). The legal description of the Site is Unit Letter "E", Section 3, Township 17 South, Range 30 East, in Eddy County, New Mexico. The subject property is owned by the United States Department of the Interior and is administered by the Bureau of Land Management (BLM). The GPS coordinates for the Site are 32.86436° N 103.96689° W. A topographical map is provided as **Figure 1** and an aerial view of the site location is shown on **Figure 2**. Photographic documentation is provided as **Appendix A**.

The Release occurred on January 1, 2019. Details of the Release are unknown, as the driver transported the truck to the Transwood yard and abandoned the vehicle with no opportunity to question the driver. On the discovery date, COG notified the New Mexico Oil and Conservation Division (NMOCD) and BLM of the Release. HollyFrontier Companies LLC subsequently filed the initial Release Notification and Corrective Action (Form C-141) for the Release, which was assigned NMOCD Remediation Permit number 2RP-5198. During initial response activities, a vacuum truck was dispatched to recover all free-standing fluids. The initial C-141 indicated two hundred seventy five (275) barrels (bbls) of crude oil was released, and an unknown volume of crude oil was recovered. The Release affected an area measuring approximately thirteen thousand (13,000) square feet (sq. ft.). The majority of the Release was confined to the caliche production pad, with the exception of the area to the southwest, which affected approximately three thousand two hundred (3,200) sq. ft. of the adjacent pasture area. A copy of the submitted Form C-141 for the Release is provided in **Appendix B**.

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) identified no registered water wells in Section 3, Township 17 South, Range 30 East. A reference map utilized by the NMOCD indicates groundwater should be encountered at a depth greater than three hundred fifty (350) feet below ground surface (bgs). No water wells were observed within one-thousand (1,000) feet of the Site. No surface water was observed within one-thousand (1,000) feet of the Release. Depth to groundwater information is shown in **Appendix D**. The FEMA floodplain database indicates the Release Site is outside the 500-year floodplain as shown in **Figure 3**. The BLM karst database indicated low karst potential for the Release Site as shown in **Figure 4**. Based on the depth to groundwater, the NMOCD Closure Criteria for Soils Impacted by a Release at the Carmen 3 Federal Com #001H Release Site are as follows:

- Benzene – 10 mg/kg
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) – 50 mg/kg
- Total Petroleum Hydrocarbons (TPH) – 2,500 mg/kg (Pad), 100 mg/kg (Pasture Surface)
- Gasoline Range Organics + Diesel Range Organics (GRO + DRO) 1,000 mg/kg (Pad) 100 mg/kg (Pasture Surface)
- Chloride – 20,000 mg/kg (Pad), 600 mg/kg (Pasture Surface)

2.0 Initial Delineation Investigation

On February 1, 2019, initial delineation activities commenced at the Release Site. A total of six (6) trenches were advanced within the Release margins to achieve vertical delineation of TPH, BTEX and chloride concentrations. Additionally, eleven (11) soil samples were collected from outside the Release margin to achieve horizontal delineation of TPH, BTEX and chloride concentrations. The locations of the trenches and horizontal delineation soil samples are shown on **Figure 5**.

Trench TT 1 was advanced in the area between the flare and the pumpjack. Three (3) soil samples (TT 1 @ 0-6", TT 1 @ 6-12", and TT 1 @ 2') were collected from Trench TT 1 and were submitted to the laboratory for TPH, BTEX and chloride analyses. The submitted soil samples from Trench TT 1 exhibited concentrations below NMOCD regulatory guidelines for TPH, BTEX, and chlorides, with the exception of soil sample TT 1 @ 0-6", which exhibited GRO + DRO concentrations above NMOCD regulatory guidelines.

Trench TT 2 was advanced in the area between the pumpjack and the tank battery. Four (4) soil samples (TT 2 @ 0-6", TT 2 @ 6-12", TT 2 @ 2', and TT 2 @ 3') were collected from Trench TT 2 and were submitted to the laboratory for TPH, BTEX, and chloride analyses. The submitted soil samples from Trench TT 2 exhibited concentrations below NMOCD regulatory guidelines for BTEX, TPH and chlorides.

Trench TT 3 was advanced in the area south of the separators and northwest of the pumpjack. Five (5) soil samples (TT 3 @ 0-6", TT 3 @ 6-12", TT 3 @ 2', TT 3 @ 3', and TT 3 @ 4') were collected from Trench TT 3 and submitted to the laboratory for TPH, BTEX, and chloride analyses. The submitted soil samples from Trench TT 3 exhibited concentrations below NMOCD regulatory guidelines for BTEX, TPH, and chlorides, with the exception of soil sample TT 3 0-6", which exhibited a total BTEX concentration above the NMOCD regulatory guidelines.

Trench TT 4, was advanced near the western margin of the pad between the western flare and the tank battery. Six (6) soil samples (TT 4 @ 0-6", TT 4 @ 6"-1', TT 4 @ 2', TT 4 @ 3', TT 4 @ 4', and TT 4 @ 5') were collected from Trench TT 4 and submitted to the laboratory for TPH, BTEX and chloride analyses. Soil samples TT 4 @ 0-6", TT 4 @ 6"-1', TT 4 @ 2', and TT 4 @ 4' exhibited total BTEX, GRO + DRO, and TPH concentrations above NMOCD regulatory guidelines. Additionally, soil sample TT 4 @ 6"-1', TT 4 @ 2', and TT 4 @ 4' exhibited benzene concentrations above NMOCD regulatory guidelines. Soil samples TT 4 @ 3' and TT 4 @ 5' were below NMOCD regulatory guidelines for all constituents of concern.

Trench TT 5, was advanced near the southeast edge of the western flare berm. Seven (7) soil samples (TT 5 @ 0-6", TT 5 @ 6"-1', TT 5 @ 2', TT 5 @ 3', TT 5 @ 4', TT 5 @ 5', and TT 5 @ 6') were collected from Trench TT 5 and were submitted to the laboratory for TPH, BTEX, and chloride analyses. The submitted soil samples from Trench TT 5 exhibited concentrations below NMOCD regulatory guidelines, with the exception of soil sample TT 5 @ 0-6", which exhibited benzene, BTEX, GRO + DRO, and TPH concentrations above NMOCD regulatory guidelines.

Trench TT 6, was advanced near the terminus of the flow path which affected the native pasture beyond the caliche pad. Three (3) soil samples (TT 6 @ 0-6", TT 6 @ 6"-1', and TT 6 @ 2') were collected from Trench TT 6 and were submitted for TPH, BTEX, and chloride analyses.

Soil samples TT 6 @ 0-6" and TT 6 @ 6"-1' exhibited benzene, BTEX, GRO + DRO, and/or TPH concentrations above NMOCD regulatory guidelines. Soil sample TT 6 @ 2' exhibited concentrations below NMOCD regulatory guidelines for all constituents of concern.

In addition, eleven (11) soil samples (TT 6 N @ 1', TT 6 S @ 1', TT 6 W @ 1', TT 6 E @ 1', TT 5 S @ 3', TT 5 E @ 3', TT 4 W @ 2.5', TT 3 S @ 2', TT 1 S @ 1', TT 1 N @ 1', and TT 1 E @ 1') were collected from outside the release margins at a depth reflective of the inferred sidewall sample depth, based on field screening activities conducted during the advancement of the vertical delineation trenches. Collected soil samples were submitted to the laboratory for TPH, BTEX, and chloride analyses. Each horizontal delineation soil sample collected exhibited concentrations below NMOCD regulatory guidelines for each constituent of concern.

3.0 Summary of Soil Remediation Activities

On March 22, 2019, an alternative sampling plan for confirmation soil sampling frequency and location was submitted to the NMOCD. On March 25, 2019, excavation activities commenced without an approved NMOCD workplan, and pending the approval of the alternative sampling plan. The areas represented by delineation trenches TT 4, TT 5, and TT 6 were excavated initially, as the areas did not impede normal trucking operations at the tank battery. The area represented by Trench TT 4 was excavated to a depth of approximately four and a half (4.5) feet below ground surface (bgs). The area represented by Trench TT 5 was excavated to a depth of approximately one (1) to two and a half (2.5) feet bgs. The area represented by Trench TT 6 was excavated to a depth of approximately one and a half (1.5) feet bgs. Impacted soil was stockpiled on a polyurethane liner pending final disposition. Excavation activities ceased after the excavation of Trenches TT 4, TT 5, and TT 6, pending NMOCD approval of the alternative sampling plan. On April 29, 2019, the NMOCD approved the alternative sampling plan.

On May 3, 2019, the excavated areas represented by Trenches TT 4, TT 5, and TT 6 were sampled according to the NMOCD-approved alternative sampling plan. Four (4) five-point composite confirmation soil samples (A4-FL-1-4.5, A4-FL-2-4.5, A4-SW-1-2.25, and A4-SW-2-2.25) were collected from the floor and sidewalls of the area represented by Trench TT 4. Six (6) five-point composite confirmation soil samples (A5-SW-1-1, A5-SW-2-1, A5-FL-1-1, A5-FL-2-1.5, A5-FL-3-2, and A5-FL-3-2.5) were collected from the floor and sidewalls of the area represented by Trench TT 5. Eight (8) five-point composite confirmation soil samples (A6-SW-1-0.75, A6-SW-2-0.75, A6-SW-3-0.75, A6-SW-4-0.75, A6-FL-1-1.5, A6-FL-2-1.5, A6-FL-3-1.5, and A6-FL-4-1.5) were collected from the area represented by Trench TT 6. Collected soil samples were submitted to the laboratory for TPH, BTEX, and/or chloride analyses. Soil samples exhibited concentrations below NMOCD guidelines for all constituents of concern, with the exception of soil samples A4-SW-1-2.25, A5-SW-1-1, A6-SW-1-0.75, A6-FL-1-1.5, A6-FL-2-1.5, A6-FL-3-1.5, and A6-FL-4-1.5, which exhibited GRO + DRO and/or TPH concentrations above NMOCD regulatory guidelines.

After a review of the analytical results, the areas represented by confirmation soil samples A4-SW-1-2.25, A5-SW-1-1, and A6-SW-1-0.75 were excavated horizontally to remove impacted soil. Additionally, the areas represented by soil samples A6-FL-1-1.5, A6-FL-2-1.5, A6-FL-3-1.5, and A6-FL-4-1.5 were further excavated vertically to a depth of approximately four (4) feet bgs, which fulfills the NMAC 19.15.29.13.D.1 requirement of the upper four (4) feet of areas off the production equipment and facilities to be remediated to the most stringent NMOCD regulatory guidelines. At depths greater than four (4) feet bgs, the regulatory guidelines are dictated only by

the depth to groundwater and the associated regulatory guidelines outlined in Table 1 of NMAC 10.15.29 Closure Criteria for Soils Impacted by a Release.

On May 20, 2019, the areas which had been further excavated due to concentrations exceeding NMOCD standards were sampled. Seven (7) five-point composite soil samples (A4-SW-1-2.25R, A5-SW-1-1R, A6-SW-1B, A6-FL-1-4, A6-FL-2-4, A6-FL-3-4, and A6-FL-4-4) were collected and submitted to the laboratory for TPH, BTEX, and/or chloride analyses. The collected soil samples exhibited TPH, BTEX, and chloride concentrations below NMOCD guidelines. After a review of the analytical results, areas A4, A5 and A6 were backfilled with locally sourced non-impacted topsoil and contoured to match the appropriate grade. Areas A4 and A5 were capped with locally sourced non-impacted caliche and matched to the grade of the pad.

On May 21, 2019, excavation of the area represented by Trench TT 3 to a depth of nine (9) inches bgs commenced and one (1) five-point composite soil sample (A3-FL-1-0.75) was collected and submitted for TPH, BTEX, and chloride analyses. The area was backfilled to grade with locally sourced non-impacted caliche immediately following sample collection to maintain trucking access to the tank battery. A review of the analytical results indicated the soil sample exhibited concentrations below NMOCD regulatory guidelines for each constituent of concern.

On May 22, 2019, excavation of the area represented by Trench TT 2 to a depth of approximately three (3) inches bgs commenced. Four (4) five-point composite soil samples (A2-SW-1-0.1, A2-SW-3-0.1, A2-FL-1-0.25, and A2-FL-2-0.25) were collected and submitted to the laboratory for TPH, BTEX, and/or chloride analyses. The area was backfilled to grade with locally sourced non-impacted caliche immediately following sample collection to maintain trucking access to the tank battery. A review of the analytical results indicated the collected soil samples exhibited concentrations below NMOCD regulatory guidelines for each constituent of concern.

On May 30, 2019, excavation of the remainder of area represented by Trench TT 2 and the area represented by Trench TT 1 commenced. The remainder of the area represented by Trench TT 2 was excavated to a depth of approximately three (3) inches bgs. The area represented by Trench TT 1 was excavated to a depth of approximately nine (9) inches to twelve (12) inches bgs. Twelve (12) five-point composite soil samples (A2-FL-3-0.25, A2-FL-4-0.25, A2-SW-2-0.1, A1-SW-1-0.5, A1-SW-2-0.35, A1-SW-3-0.35, A1-FL-1-0.75, A1-FL-2-0.5, A1-FL-3-0.75, A1-FL-4-0.5, A1-FL-5-0.5, and A1-FL-6-1.0) were collected and submitted to the laboratory for TPH, BTEX, and/or chloride analyses. The area was backfilled to grade with locally sourced non-impacted caliche immediately following sample collection to maintain trucking access to the tank battery. A review of the analytical results indicated the collected soil samples exhibited concentrations below NMOCD regulatory guidelines for each constituent apart from soil samples A2-FL-3-0.25, A2-SW-2-0.1, A1-SW-2-0.35, and A1-FL-2-0.5.

On June 6, 2019, further horizontal excavation of the areas represented by soil samples A1-SW-2-0.35 and A2-SW-2-0.1 and further vertical excavation of the areas represented by soil samples A1-FL-2-0.5 and A2-FL-3-0.25 commenced. Horizontal and vertical excavation continued until olfactory and visual signs indicated the soil to be below NMOCD regulatory guidelines. Four (4) five-point composite soil samples, one (1) soil sample from each area of additional excavation, were collected and submitted to the laboratory for TPH and BTEX analyses. The areas were backfilled to grade with locally sourced non-impacted caliche immediately following sample collection to maintain trucking access to the tank battery. A review of the analytical results indicated the collected soil samples exhibited concentrations below NMOCD

regulatory guidelines for each constituent of concern. The locations of all confirmation soil samples are shown on **Figure 6**.

Approximately 1,400 cubic yards of impacted material was transported to an NMOCD-approved disposal facility. The affected facility has been returned to grade on the pad and been contoured to match the existing grade in the pasture. No further remedial action is recommended at this time.

4.0 Site Closure Request

Remediation activities were conducted in accordance with NMOCD guidelines. Laboratory analytical results from excavation confirmation soil samples indicated TPH, BTEX, and/or chloride concentrations were below the NMOCD regulatory guidelines in the submitted confirmation soil samples. The impacted soil was transported to an NMOCD-approved disposal facility, and the Site was returned to grade with locally sourced non-impacted backfill material. Based on laboratory analytical results and field activities conducted to date, TRC recommends COG provide copies of this Remediation Summary and Site Closure Request to the NMOCD and BLM and request closure status to the Carmen 3 Federal Com #1H.

5.0 Limitation

TRC has prepared this Remediation Summary and Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of COG Operating, LLC. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or COG Operating, LLC.

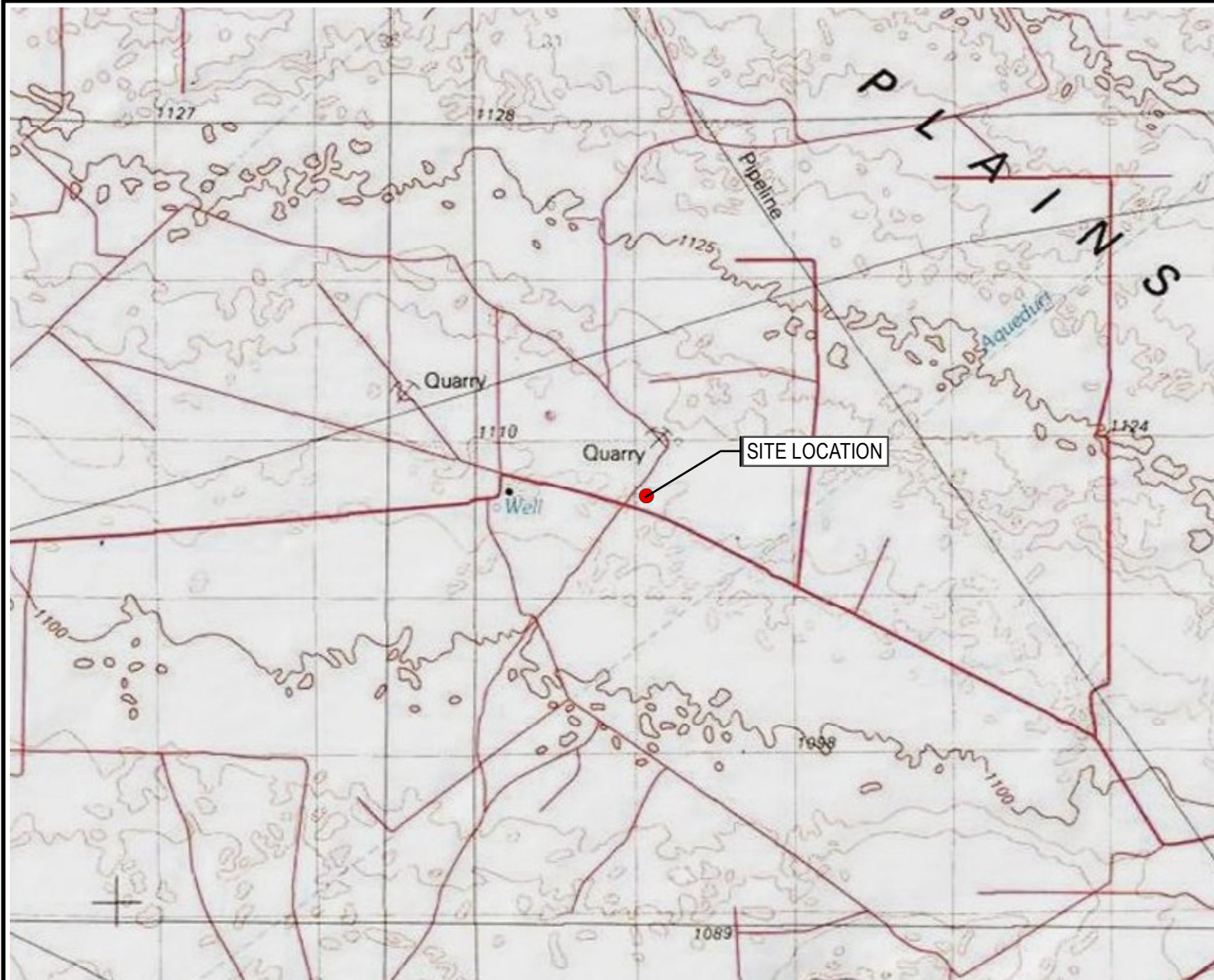
6.0 Distribution

- Copy 1: Mike Bratcher
New Mexico Energy, Minerals and Natural Resources Department
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811 S. First Street
Artesia, NM 88210
- Copy 2: Jim Amos
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| Table 1 | | | | | | | | | | | |
|--|---------|-------|-------------|--------------------|-----------------|--|---|--|---|--|-------------------------------|
| Concentrations of BTEX, TPH, and/or Chloride in Soil | | | | | | | | | | | |
| Sample ID | Date | Depth | Soil Status | SW 846 8021B | | SW 846 8015M Ext. | | | | | E 300 |
| | | | | Benzene (mg/kg) | BTEX (mg/kg) | GRO C ₆ -C ₁₀ (mg/kg) | DRO C ₁₀ -C ₂₈ (mg/kg) | GRO + DRO C ₆ -C ₂₈ (mg/kg) | ORO C ₂₈ -C ₃₆ (mg/kg) | TPH C ₆ -C ₃₆ (mg/kg) | Chloride (mg/kg) |
| TT1 @ 0-6" | 2/1/19 | 0-6" | Excavated | 0.573 | 46.0 | 317 | 1,360 | 1,677 | 176 | 1,853 | 48.0 |
| TT1 @ 6"-1' | 2/1/19 | 6"-1' | Excavated | <0.050 | <0.300 | <10.0 | 21.3 | 21.3 | <10.0 | 21.3 | 48.0 |
| TT1 @ 2' | 2/1/19 | 2' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 80.0 |
| TT1 N @ 1' | 2/1/19 | 1' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 |
| TT1 S @1' | 2/1/19 | 1' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 |
| TT1 E @ 1' | 2/1/19 | 1' | In-Situ | <0.050 | <0.300 | <10.0 | 69.8 | 69.8 | 12.0 | 81.8 | 48.0 |
| | | | | | | | | | | | |
| A1-SW-1- 0.5 | 5/29/19 | 0.5" | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | -- |
| A1-SW-2-0.35 | 5/29/19 | 0.35" | Excavated | <0.050 | 1.90 | 33.9 | 1280 | 1314 | 160 | 1474 | -- |
| A1-SW-2-0.35R | 6/6/19 | 0.35" | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | -- |
| A1-SW-3- 0.35 | 5/29/19 | 0.35" | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | -- |
| A1-FL-1- 0.75 | 5/29/19 | 0.75" | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | -- |
| A1-FL-2- 0.5 | 5/29/19 | 0.5" | Excavated | <0.050 | 3.91 | <10.0 | 1,090 | 1,090 | 154 | 1,244 | 288 |
| A1-FL-2- 0.75 | 6/6/19 | 0.75" | In-Situ | <0.050 | <0.300 | <10.0 | 132 | 132 | <10.0 | 132 | -- |
| A1-FL-3- 0.75 | 5/29/19 | 0.75" | In-Situ | <0.050 | <0.300 | <10.0 | 308 | 308 | <10.0 | 308 | -- |
| A1-FL-4- 0.5 | 5/29/19 | 0.5" | In-Situ | <0.050 | 0.425 | <10.0 | 855 | 855 | 132 | 987 | -- |
| A1-FL-5- 0.5 | 5/29/19 | 0.5" | In-Situ | <0.050 | 2.38 | 33.1 | 669 | 702.1 | 51.8 | 753.9 | 96.0 |
| A1-FL-6- 1.0 | 5/29/19 | 1' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | -- |
| | | | | | | | | | | | |
| TT2 @ 0-6" | 2/1/19 | 0-6" | Excavated | <0.050 | 0.813 | <10.0 | 90.8 | 90.8 | <10.0 | 90.8 | 160 |
| TT2 @ 6"-1' | 2/1/19 | 6"-1' | Excavated | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 320 |
| TT2 @ 2' | 2/1/19 | 2' | Excavated | <0.050 | <0.300 | <10.0 | 76.6 | 76.6 | <10.0 | 76.6 | 48.0 |
| TT2 @ 3' | 2/1/19 | 3' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| | | | | | | | | | | | |
| A2-SW-1- 0.1 | 5/23/19 | 0.1" | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 64.0 |
| A2-SW-2-0.1 | 5/29/19 | 0.1" | Excavated | <0.050 | 0.708 | <10.0 | 1,290 | 1,290 | 242 | 1,532 | -- |
| A2-SW-2-0.1R | 6/6/19 | 0.1" | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | -- |
| A2-SW-3- 0.1 | 5/23/19 | 0.1" | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 96.0 |
| A2-FL-1- 0.25 | 5/23/19 | 0.25" | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 |
| A2-FL-2- 0.25 | 5/23/19 | 0.25" | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 96.0 |
| A2-FL-3- 0.25 | 5/29/19 | 0.25" | Excavated | <0.050 | 8.12 | <50.0 | 3,270 | 3,270 | 175 | 3,445 | -- |
| A2-FL-3- 0.5 | 6/6/19 | 0.5 | In-Situ | <0.050 | <0.300 | <10.0 | 203 | 203 | 14.0 | 217.0 | -- |
| A2-FL-4- 0.25 | 5/29/19 | 0.25" | In-Situ | <0.050 | <0.300 | <10.0 | 317 | 317 | <10.0 | 317 | 64.0 |
| NMOCD Closure Criteria | | | | 10 | 50 | - | - | 1,000 | - | 2,500 | Pad (10,000) Pasture (600) |

| Table 1 | | | | | | | | | | | |
|--|---------|-------|-------------|--------------------|-----------------|--|---|--|---|--|-------------------------------|
| Concentrations of BTEX, TPH, and/or Chloride in Soil | | | | | | | | | | | |
| Sample ID | Date | Depth | Soil Status | SW 846 8021B | | SW 846 8015M Ext. | | | | | E 300 |
| | | | | Benzene (mg/kg) | BTEX (mg/kg) | GRO C ₆ -C ₁₀ (mg/kg) | DRO C ₁₀ -C ₂₈ (mg/kg) | GRO + DRO C ₆ -C ₂₈ (mg/kg) | ORO C ₂₈ -C ₃₆ (mg/kg) | TPH C ₆ -C ₃₆ (mg/kg) | Chloride (mg/kg) |
| TT3 @ 0-6" | 2/1/19 | 0-6" | Excavated | 5.88 | 116 | 232 | 744 | 976 | 101 | 1,077 | 80.0 |
| TT3 @ 6"-1' | 2/1/19 | 6"-1' | Excavated | <0.050 | <0.300 | <10.0 | 12.4 | 12.4 | <10.0 | 12.4 | 176 |
| TT3 @ 2' | 2/1/19 | 2' | Excavated | <0.050 | 0.531 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| TT3 @ 3' | 2/1/19 | 3' | Excavated | <0.050 | <0.300 | <10.0 | 11.2 | 11.2 | <10.0 | 11.2 | 112 |
| TT3 @ 4' | 2/1/19 | 4' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| TT3 S @ 2' | 2/1/19 | 2' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 |
| | | | | | | | | | | | |
| A3-FL-1- 0.75 | 5/22/19 | 0.75 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 160 |
| | | | | | | | | | | | |
| TT4 @ 0-6" | 2/1/19 | 0-6" | Excavated | 9.52 | 247 | 2,740 | 7,880 | 10,620 | 833 | 11,453 | 128 |
| TT4 @ 6"-1' | 2/1/19 | 6"-1' | Excavated | 26.9 | 456 | 3,940 | 8,270 | 12,210 | 1,100 | 13,310 | 64.0 |
| TT4 @ 2' | 2/1/19 | 2' | Excavated | 11.9 | 271 | 2,910 | 7,800 | 10,710 | 1,020 | 11,730 | <16.0 |
| TT4 @ 3' | 2/1/19 | 3' | Excavated | 0.105 | 1.52 | <10.0 | 106 | 106 | <10.0 | 106 | 32.0 |
| TT4 @ 4' | 2/1/19 | 4' | Excavated | 14.2 | 273 | 3,080 | 8,950 | 12,030 | 1,190 | 13,220 | 48.0 |
| TT4 @ 5' | 2/1/19 | 5' | In-Situ | <0.050 | <0.300 | <10.0 | 20.6 | 20.6 | 12.0 | 32.6 | 48.0 |
| TT4 W @ 2.5' | 2/1/19 | 2.5' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| | | | | | | | | | | | |
| A4- SW-1- 2.25' | 5/3/19 | 2.25' | Excavated | <0.050 | 1.94 | 88.2 | 3,070 | 3,158 | 680 | 3,838 | -- |
| A4- SW-1- 2.25' R | 5/13/19 | 2.25' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | -- |
| A4- SW-2- 2.25' | 5/3/19 | 2.25' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | -- |
| A4- FL-1- 4.5' | 5/3/19 | 4.5' | In-Situ | <0.050 | 2.89 | 39.8 | 915 | 955 | 201 | 1,156 | 32.0 |
| A4- FL-2- 4.5' | 5/3/19 | 4.5' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | -- |
| | | | | | | | | | | | |
| TT5 @ 0-6" | 2/1/19 | 0-6" | Excavated | 15.7 | 296 | 1,000 | 2,180 | 3,180 | 163 | 3,343 | 160 |
| TT5 @ 6"-1' | 2/1/19 | 6"-1' | Excavated | <0.050 | 0.434 | <10.0 | 17.2 | 17.2 | <10.0 | 17.2 | 96.0 |
| TT5 @ 2' | 2/1/19 | 2' | Excavated | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 |
| TT5 @ 3' | 2/1/19 | 3' | Excavated | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 |
| TT5 @ 4' | 2/1/19 | 4' | Excavated | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| TT5 @ 5' | 2/1/19 | 5' | Excavated | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| TT5 @ 6' | 2/1/19 | 6' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 |
| TT5 S @ 3' | 2/1/19 | 3' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| TT5 E @ 3' | 2/1/19 | 3' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 |
| NMOCD Closure Criteria | | | | 10 | 50 | - | - | 1,000 | - | 2,500 | Pad (10,000) Pasture (600) |

| Table 1 | | | | | | | | | | | |
|--|---------|-------|-------------|--------------------|-----------------|--|---|--|---|--|-------------------------------|
| Concentrations of BTEX, TPH, and/or Chloride in Soil | | | | | | | | | | | |
| Sample ID | Date | Depth | Soil Status | SW 846 8021B | | SW 846 8015M Ext. | | | | | E 300 |
| | | | | Benzene (mg/kg) | BTEX (mg/kg) | GRO C ₆ -C ₁₀ (mg/kg) | DRO C ₁₀ -C ₂₈ (mg/kg) | GRO + DRO C ₆ -C ₂₈ (mg/kg) | ORO C ₂₈ -C ₃₆ (mg/kg) | TPH C ₆ -C ₃₆ (mg/kg) | Chloride (mg/kg) |
| A5- SW-1- 1' | 5/3/19 | 1' | Excavated | <0.050 | 2.47 | 27.2 | 1,440 | 1,467 | 380 | 1,847 | -- |
| A5- SW-1- 1' R | 5/13/19 | 1' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | -- |
| A5- SW-2- 1' | 5/3/19 | 1' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | -- |
| A5- FL-1- 1' | 5/3/19 | 1' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 |
| A5- FL-2- 1.5' | 5/3/19 | 1.5' | In-Situ | <0.050 | <0.300 | <10.0 | 68.4 | 68.4 | 13.5 | 81.9 | -- |
| A5- FL-3- 2' | 5/3/19 | 2' | In-Situ | <0.050 | <0.300 | <10.0 | 69.9 | 69.9 | 14.2 | 84.1 | -- |
| A5- FL-4- 2.5' | 5/3/19 | 2.5' | In-Situ | <0.050 | <0.300 | <10.0 | 19.9 | 19.9 | <10.0 | 19.9 | -- |
| | | | | | | | | | | | |
| TT6 @ 0-6" | 2/1/19 | 0-6" | Excavated | 19.7 | 903 | 9,980 | 32,800 | 42,780 | 4,900 | 47,680 | 64.0 |
| TT6 @ 6"-1' | 2/1/19 | 6"-1' | Excavated | 7.12 | 422 | 4,830 | 12,000 | 16,830 | 1,890 | 18,720 | <16.0 |
| TT6 @ 2' | 2/1/19 | 2' | In-Situ | <0.050 | 0.421 | <10.0 | 53.0 | 53.0 | 41.0 | 94.0 | <16.0 |
| TT6 N @ 1' | 2/1/19 | 1' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 |
| TT6 S @ 1' | 2/1/19 | 1' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 |
| TT6 E @ 1' | 2/1/19 | 1' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| TT6 W @ 1' | 2/1/19 | 1' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 |
| | | | | | | | | | | | |
| A6- SW-1- 0.75' | 5/3/19 | 0.75' | Excavated | <0.050 | <0.300 | <10.0 | 249 | 249 | 83.6 | 332.6 | -- |
| A6- SW-1B- 2' | 5/20/19 | 2' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 |
| A6- SW-2- 0.75' | 5/3/19 | 0.75' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | -- |
| A6- SW-3- 0.75' | 5/3/19 | 0.75' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | -- |
| A6- SW-4- 0.75' | 5/3/19 | 0.75' | In-Situ | <0.050 | <0.300 | 13.6 | 25.7 | 39.3 | <10.0 | 39.3 | -- |
| A6- FL-1- 1.5' | 5/3/19 | 1.5' | Excavated | <0.050 | <0.300 | <10.0 | 353 | 353 | 97.1 | 450.1 | <16.0 |
| A6- FL-1- 4' | 5/20/19 | 4' | In-Situ | <0.050 | <0.300 | <10.0 | 87.9 | 87.9 | <10.0 | 87.9 | -- |
| A6- FL-2- 1.5' | 5/3/19 | 1.5' | Excavated | <0.050 | <0.300 | 20.5 | 856 | 876.5 | 190 | 1,066.5 | -- |
| A6- FL-2- 4' | 5/20/19 | 4' | In-Situ | <0.050 | <0.300 | <10.0 | 71.9 | 71.9 | <10.0 | 71.9 | 32.0 |
| A6- FL-3- 1.5' | 5/3/19 | 1.5' | Excavated | 0.100 | 15.2 | 158 | 6,360 | 6,518 | 1,550 | 8,068 | -- |
| A6- FL-3- 4' | 5/20/19 | 4' | In-Situ | <0.050 | <0.300 | <10.0 | 139 | 139 | 15.0 | 154.0 | -- |
| A6- FL-4- 1.5' | 5/3/19 | 1.5' | Excavated | <0.050 | 1.40 | 29.3 | 1,610 | 1,639.3 | 391 | 2,030.3 | -- |
| A6- FL-4- 4' | 5/20/19 | 4' | In-Situ | <0.050 | <0.300 | <10.0 | 20.7 | 20.7 | <10.0 | 20.7 | -- |
| | | | | | | | | | | | |
| NMOCD Closure Criteria | | | | 10 | 50 | - | - | 1,000 | - | 2,500 | Pad (10,000) Pasture (600) |



LEGEND

● SITE LOCATION

BASEMAP FROM USGS 7.5 MINUTE
TOPOGRAPHIC QUADRANGLE SERIES
(2019) - LAGUNA GATUNA NW.



0 0.5 1
MILES

1" = 1 MILES
1:63,360



505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080

TRC - GIS

PROJECT:

**CARMEN FEDERAL #1
LEA COUNTY, NM**

TITLE:

TOPOGRAPHIC MAP

DRAWN BY: S. RAY

CHECKED BY:

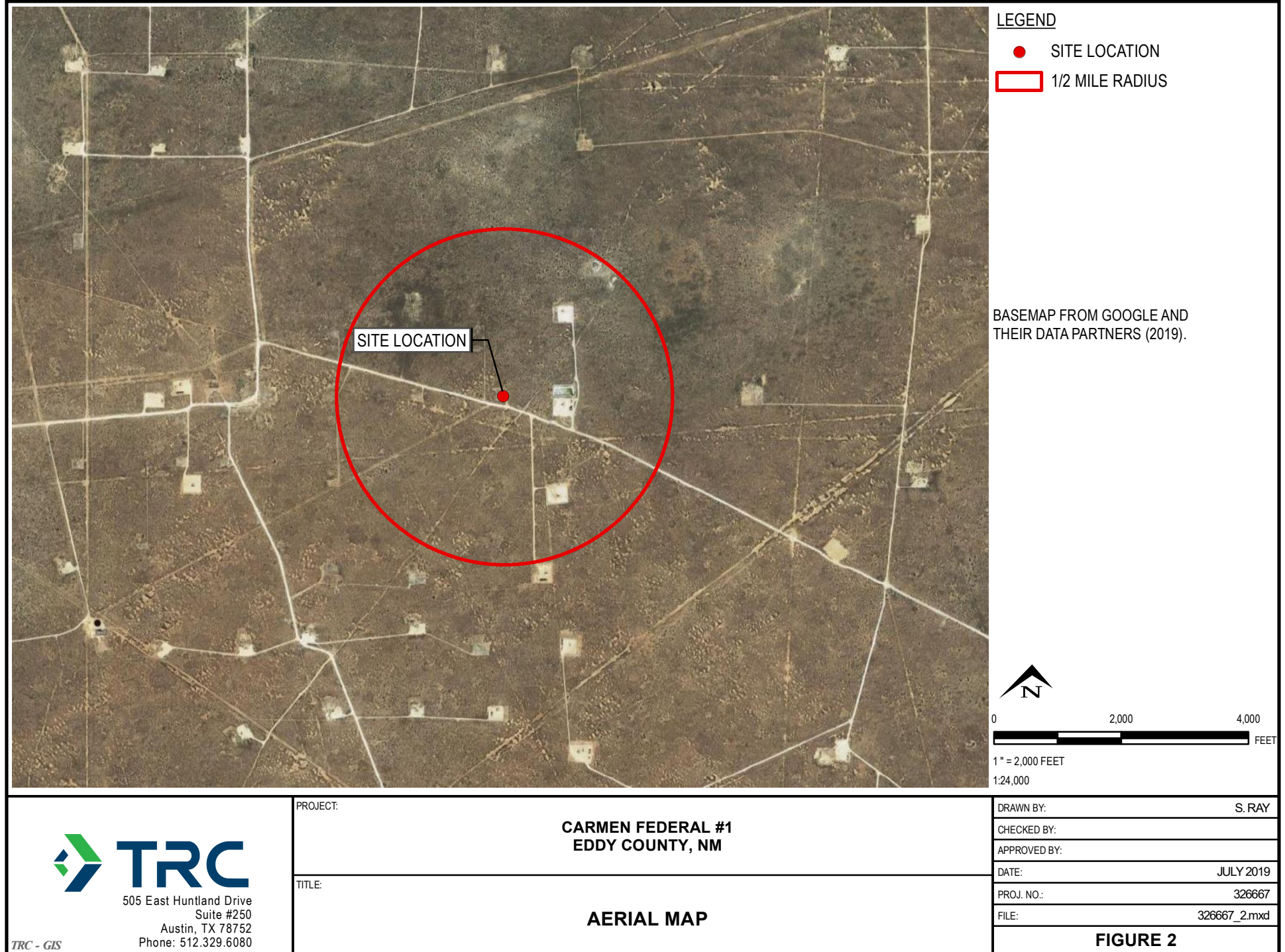
APPROVED BY:

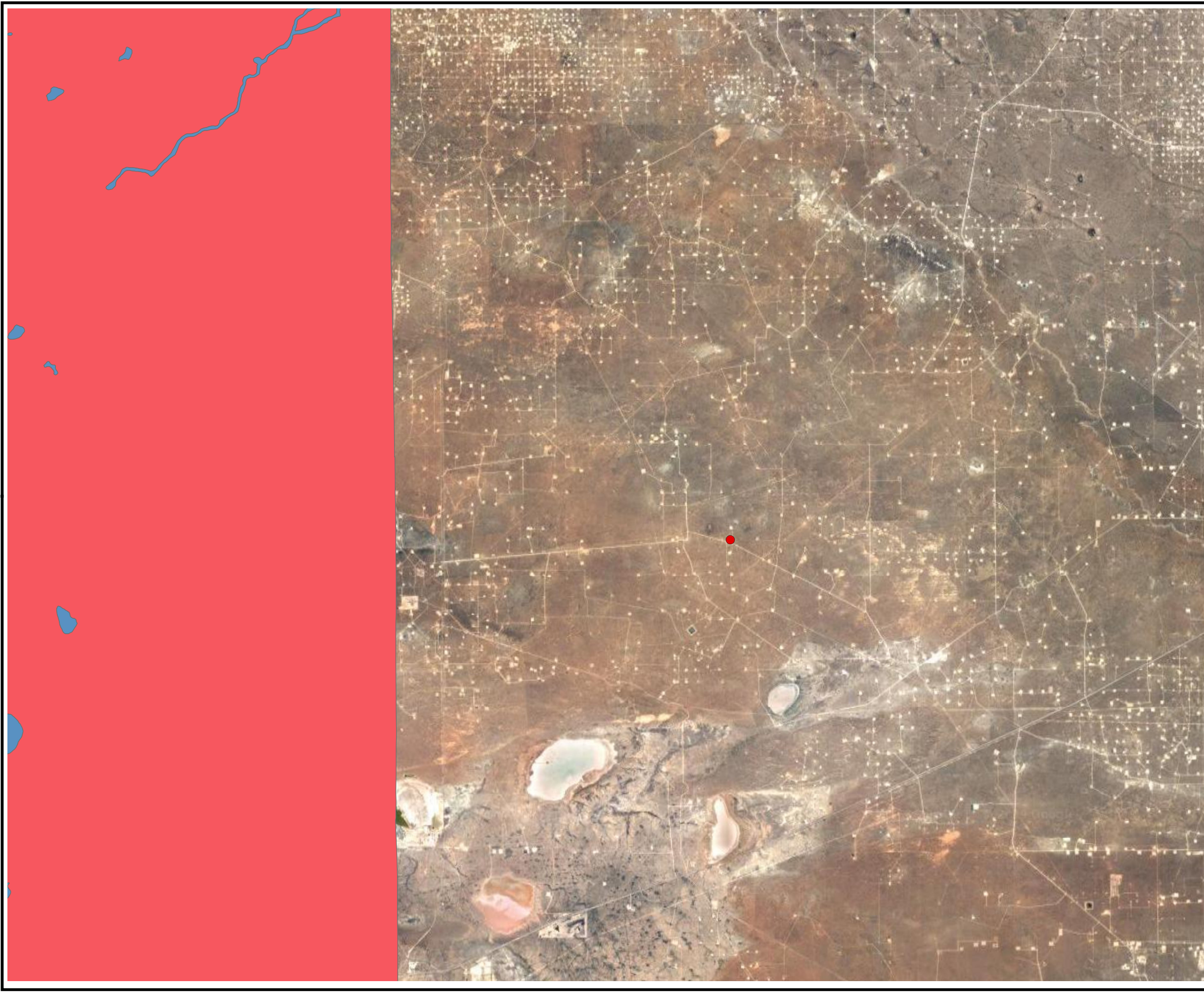
DATE: JULY 2019

PROJ. NO.: 326677

FILE: 326667_1.mxd

FIGURE 1





LEGEND

SITE LOCATION

A - 100 YEAR FLOODPLAIN (1 % CHANCE OF FLOODING)

X - 500 YEAR FLOODPLAIN (0.2 % CHANCE OF FLOODING)

0

2

4

Miles

1" = 2 MILES

1:126,720

PROJECT:

CARMEN FEDERAL #1
LEA COUNTY, NM

TITLE:

FLOOD PLAIN MAP

DRAWN BY: S. RAY

CHECKED BY:

APPROVED BY:

DATE: JULY 2019

PROJ. NO.: 326667

FIGURE 3

TRC

505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080

FILE NO:

326667_3.mxd



LEGEND

LOW KARST POTENTIAL

MEDIUM KARST POTENTIAL

HIGH KARST POTENTIAL

SITE LOCATION

024

Miles

1" = 2 MILES

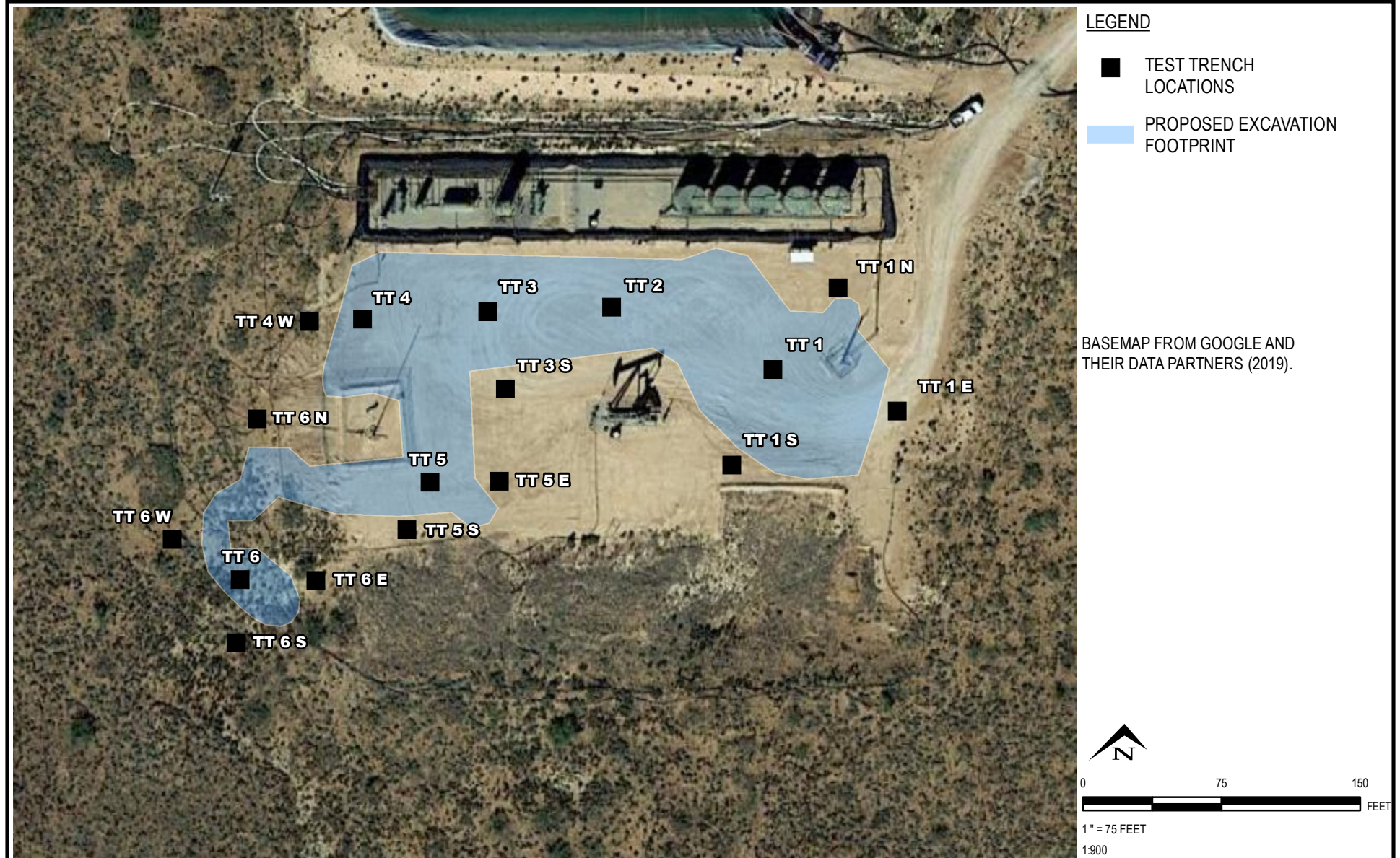
1:126,720

N

| | | | |
|---------------------|--|-------------------------------------|-------------------|
| PROJECT: | | CARMEN FEDERAL #1 LEA COUNTY, NM | |
| TITLE: | | | |
| KARST POTENTIAL MAP | | | |
| DRAWN BY: | | S. RAY | PROJ. NO.: 326667 |
| CHECKED BY: | | FIGURE 4 | |
| APPROVED BY: | | | |
| DATE: | | JULY 2019 | |
| FILE NO.: | | 326667_4.mxd | |

TRC

505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080



505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080

TRC - GIS

PROJECT:

CARMEN FEDERAL #1
LEA COUNTY, NM

TITLE:

SITE & SAMPLE LOCATION MAP - INITIAL INVESTIGATION

DRAWN BY: S. RAY

CHECKED BY:

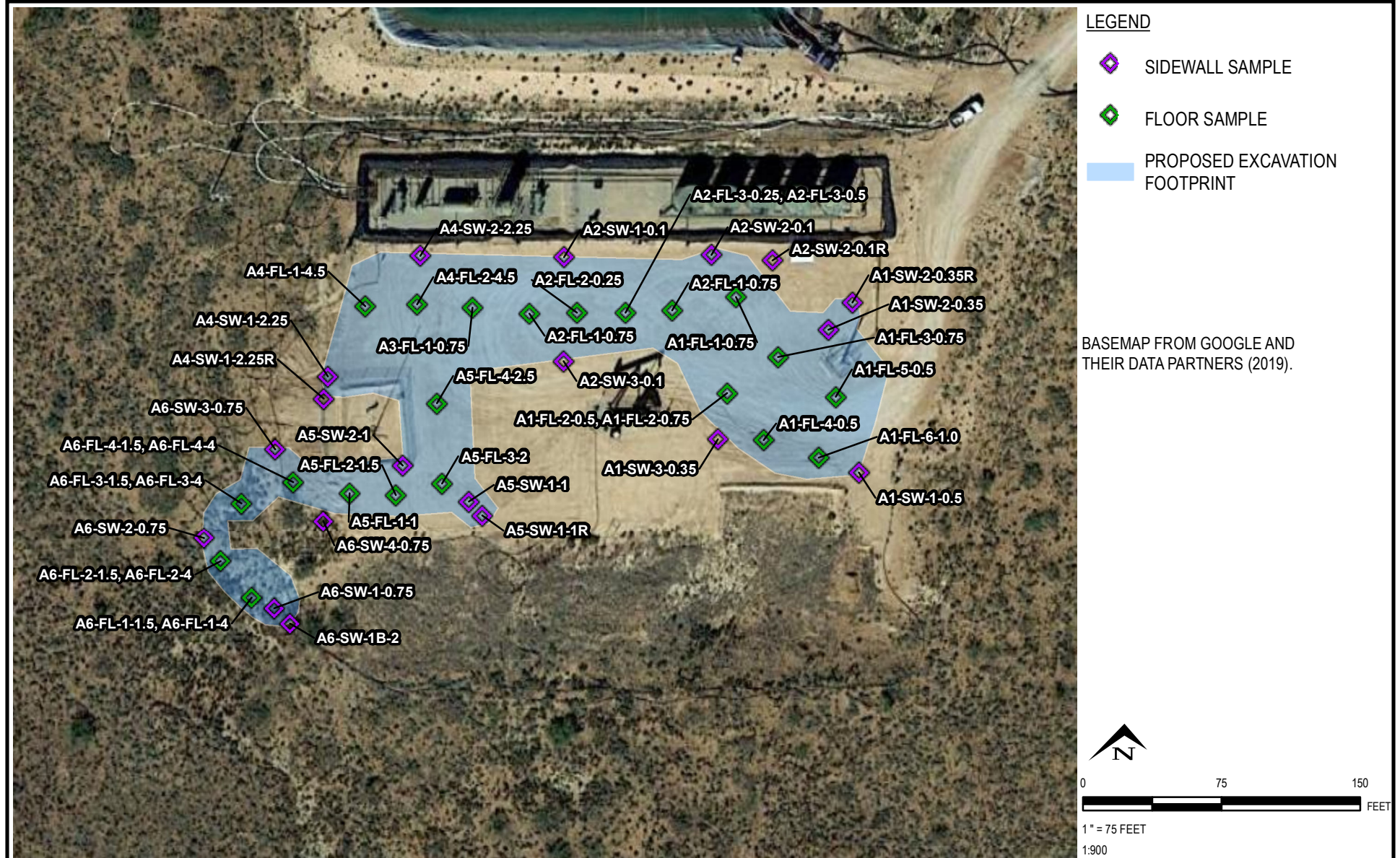
APPROVED BY:


DATE: JULY 2019

PROJ. NO.: 326667

FILE: 326667_5.mxd

FIGURE 5



| | | |
|---|--|--------------------|
|  <p>505 East Huntland Drive Suite #250 Austin, TX 78752 Phone: 512.329.6080</p> <p>TRC - GIS</p> | PROJECT: CARMEN FEDERAL #1 LEA COUNTY, NM | DRAWN BY: S. RAY |
| | TITLE: SITE AND CONFIRMATION SAMPLE LOCATION MAP | CHECKED BY: |
| | | APPROVED BY: |
| | | DATE: JULY 2019 |
| | | PROJ. NO.: 326667 |
| | | FILE: 326667_6.mxd |
| | | FIGURE 6 |

Appendix A: Laboratory Analytical Reports



February 04, 2019

BRIAN COOPER

TRC

10 DESTA DR. SUITE 150 E

MIDLAND, TX 79705

RE: CARMEN FED #1

Enclosed are the results of analyses for samples received by the laboratory on 02/01/19 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

| | |
|------------------|---|
| Method SM 9223-B | Total Coliform and E. coli (Colilert MMO-MUG) |
| Method EPA 524.2 | Regulated VOCs and Total Trihalomethanes (TTHM) |
| Method EPA 552.2 | Total Haloacetic Acids (HAA-5) |

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---------------|---------------|--------|-----------------|-----------------|
| TT 1 @ 0-6" | H900378-01 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 1 @ 6"-1' | H900378-02 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 1 @ 2' | H900378-03 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 2 @ 0-6" | H900378-04 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 2 @ 6"-1' | H900378-05 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 2 @ 2' | H900378-06 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 2 @ 3' | H900378-07 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 3 @ 0-6" | H900378-08 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 3 @ 6"-1' | H900378-09 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 3 @ 2' | H900378-10 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 3 @ 3' | H900378-11 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 3 @ 4' | H900378-12 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 4 @ 0-6" | H900378-13 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 4 @ 6"-1' | H900378-14 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 4 @ 2' | H900378-15 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 4 @ 3' | H900378-16 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 4 @ 4' | H900378-17 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 4 @ 5' | H900378-18 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 5 @ 0-6" | H900378-19 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 5 @ 6"-1' | H900378-20 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 6 N @ 1' | H900378-21 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 6 S @ 1' | H900378-22 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 6 W @ 1' | H900378-23 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 6 E @ 1' | H900378-24 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 5 S @ 3' | H900378-25 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 5 E @ 3' | H900378-26 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 4 W @ 2.5' | H900378-27 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:Reported:
04-Feb-19 18:19

| | | | | |
|--------------|------------|------|-----------------|-----------------|
| TT 3 S @ 2' | H900378-28 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 1 S @ 1' | H900378-29 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 1 N @ 1' | H900378-30 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 5 @ 2' | H900378-31 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 5 @ 3' | H900378-32 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 5 @ 4' | H900378-33 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 5 @ 5' | H900378-34 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 5 @ 6' | H900378-35 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 6 @ 0-6" | H900378-36 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 6 @ 6"-1' | H900378-37 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 6 @ 2' | H900378-38 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |
| TT 1 E @ 1' | H900378-39 | Soil | 01-Feb-19 00:00 | 01-Feb-19 16:35 |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 1 @ 0-6"
H900378-01 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 9020403 | AC | 04-Feb-19 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|-----------------------|--------------|--|-------|-------|-----|---------|----|-----------|-------|--|
| Benzene* | 0.573 | | 0.500 | mg/kg | 500 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Toluene* | 10.1 | | 0.500 | mg/kg | 500 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Ethylbenzene* | 14.3 | | 0.500 | mg/kg | 500 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Total Xylenes* | 21.0 | | 1.50 | mg/kg | 500 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Total BTEX | 46.0 | | 3.00 | mg/kg | 500 | 9020301 | ms | 03-Feb-19 | 8021B | |

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129 9020301 ms 03-Feb-19 8021B

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|----------------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | 317 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| DRO >C10-C28* | 1360 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | 176 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |

Surrogate: 1-Chlorooctane 105 % 41-142 9020304 MS 03-Feb-19 8015B

Surrogate: 1-Chlorooctadecane 121 % 37.6-147 9020304 MS 03-Feb-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 1 @ 6"-1'
H900378-02 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 9020403 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|-------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Ethylbenzene* | 0.069 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 101 % | 73.3-129 | | 9020301 | ms | 03-Feb-19 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| DRO >C10-C28* | 21.3 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 86.1 % | 41-142 | | 9020304 | MS | 03-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 84.1 % | 37.6-147 | | 9020304 | MS | 03-Feb-19 | 8015B | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 1 @ 2' H900378-03 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 80.0 | | 16.0 | mg/kg | 4 | 9020403 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|--------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Toluene* | 0.109 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Ethylbenzene* | 0.085 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 98.9 % | 73.3-129 | | 9020301 | ms | 03-Feb-19 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 77.4 % | 41-142 | | 9020304 | MS | 03-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 73.6 % | 37.6-147 | | 9020304 | MS | 03-Feb-19 | 8015B | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 2 @ 0-6"
H900378-04 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | |
|----------|-----|------|-------|---|---------|----|-----------|-----------|
| Chloride | 160 | 16.0 | mg/kg | 4 | 9020403 | AC | 04-Feb-19 | 4500-Cl-B |
|----------|-----|------|-------|---|---------|----|-----------|-----------|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | |
|---------------------------------------|--------|----------|-------|----|---------|----|-----------|-------|
| Benzene* | <0.050 | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B |
| Toluene* | 0.153 | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B |
| Ethylbenzene* | 0.265 | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B |
| Total Xylenes* | 0.395 | 0.150 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B |
| Total BTEX | 0.813 | 0.300 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B |
| Surrogate: 4-Bromofluorobenzene (PID) | 101 % | 73.3-129 | | | 9020301 | ms | 03-Feb-19 | 8021B |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | |
|-------------------------------|--------|----------|-------|---|---------|----|-----------|-------|
| GRO C6-C10* | <10.0 | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B |
| DRO >C10-C28* | 90.8 | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B |
| EXT DRO >C28-C36 | <10.0 | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B |
| Surrogate: 1-Chlorooctane | 79.8 % | 41-142 | | | 9020304 | MS | 03-Feb-19 | 8015B |
| Surrogate: 1-Chlorooctadecane | 78.8 % | 37.6-147 | | | 9020304 | MS | 03-Feb-19 | 8015B |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 2 @ 6"-1' H900378-05 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|-----|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 320 | | 16.0 | mg/kg | 4 | 9020403 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|-----|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|-------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 100 % | 73.3-129 | | 9020301 | ms | 03-Feb-19 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 74.5 % | 41-142 | | 9020304 | MS | 03-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 69.8 % | 37.6-147 | | 9020304 | MS | 03-Feb-19 | 8015B | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 2 @ 2'
H900378-06 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 9020403 | AC | 04-Feb-19 | 4500-Cl-B |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | |
|---------------------------------------|--------|--|-------|----------|----|---------|----|-----------|-------|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B |
| Ethylbenzene* | 0.052 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 101 % | 73.3-129 | | 9020301 | ms | 03-Feb-19 | 8021B |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B |
| DRO >C10-C28* | 76.6 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B |
| Surrogate: 1-Chlorooctane | | | 86.2 % | 41-142 | | 9020304 | MS | 03-Feb-19 | 8015B |
| Surrogate: 1-Chlorooctadecane | | | 85.3 % | 37.6-147 | | 9020304 | MS | 03-Feb-19 | 8015B |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 2 @ 3'
H900378-07 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 32.0 | | 16.0 | mg/kg | 4 | 9020403 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|--------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 99.8 % | 73.3-129 | | 9020301 | ms | 03-Feb-19 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 87.3 % | 41-142 | | 9020304 | MS | 03-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 82.4 % | 37.6-147 | | 9020304 | MS | 03-Feb-19 | 8015B | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 3 @ 0-6"
H900378-08 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|
| Chloride | 80.0 | | 16.0 | mg/kg | 4 | 9020403 | AC | 04-Feb-19 | 4500-Cl-B |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | |
|----------------|------|--|-------|-------|-----|---------|----|-----------|-------|
| Benzene* | 5.88 | | 0.500 | mg/kg | 500 | 9020301 | ms | 03-Feb-19 | 8021B |
| Toluene* | 34.9 | | 0.500 | mg/kg | 500 | 9020301 | ms | 03-Feb-19 | 8021B |
| Ethylbenzene* | 32.9 | | 0.500 | mg/kg | 500 | 9020301 | ms | 03-Feb-19 | 8021B |
| Total Xylenes* | 42.4 | | 1.50 | mg/kg | 500 | 9020301 | ms | 03-Feb-19 | 8021B |
| Total BTEX | 116 | | 3.00 | mg/kg | 500 | 9020301 | ms | 03-Feb-19 | 8021B |

| | | | | | | | | | |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 108 % | | 73.3-129 | 9020301 | ms | 03-Feb-19 | 8021B |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | |
|------------------|-----|--|------|-------|---|---------|----|-----------|-------|
| GRO C6-C10* | 232 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B |
| DRO >C10-C28* | 744 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B |
| EXT DRO >C28-C36 | 101 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B |

| | | | | | | | | | |
|---------------------------|--|--|--------|--|--------|---------|----|-----------|-------|
| Surrogate: 1-Chlorooctane | | | 95.5 % | | 41-142 | 9020304 | MS | 03-Feb-19 | 8015B |
|---------------------------|--|--|--------|--|--------|---------|----|-----------|-------|

| | | | | | | | | | |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|
| Surrogate: 1-Chlorooctadecane | | | 101 % | | 37.6-147 | 9020304 | MS | 03-Feb-19 | 8015B |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 3 @ 6"-1'
H900378-09 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|-----|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 176 | | 16.0 | mg/kg | 4 | 9020403 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|-----|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|-------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Toluene* | 0.052 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Ethylbenzene* | 0.055 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 101 % | 73.3-129 | | 9020301 | ms | 03-Feb-19 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| DRO >C10-C28* | 12.4 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 84.4 % | 41-142 | | 9020304 | MS | 03-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 81.4 % | 37.6-147 | | 9020304 | MS | 03-Feb-19 | 8015B | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 3 @ 2'
H900378-10 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 32.0 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Toluene* | 0.156 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Ethylbenzene* | 0.155 | | 0.050 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Total Xylenes* | 0.220 | | 0.150 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |
| Total BTEX | 0.531 | | 0.300 | mg/kg | 50 | 9020301 | ms | 03-Feb-19 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | 100 % | | 73.3-129 | | 9020301 | ms | 03-Feb-19 | 8021B | |
|---------------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020304 | MS | 03-Feb-19 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--------|--|--------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | 89.1 % | | 41-142 | | 9020304 | MS | 03-Feb-19 | 8015B | |
|---------------------------|--|--------|--|--------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | 85.8 % | | 37.6-147 | | 9020304 | MS | 03-Feb-19 | 8015B | |
|-------------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 3 @ 3'
H900378-11 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 112 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------------|--------------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Ethylbenzene* | 0.053 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |

| | | | | | | | | | | |
|--|--|--|--------|--|----------|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 92.5 % | | 73.3-129 | 9020302 | MS | 03-Feb-19 | 8021B | |
|--|--|--|--------|--|----------|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | 11.2 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |

| | | | | | | | | | | |
|----------------------------------|--|--|--------|--|--------|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | | 79.9 % | | 41-142 | 9020305 | MS | 04-Feb-19 | 8015B | |
|----------------------------------|--|--|--------|--|--------|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|--------------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 75.3 % | | 37.6-147 | 9020305 | MS | 04-Feb-19 | 8015B | |
|--------------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 3 @ 4'
H900378-12 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 32.0 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|--------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 89.7 % | 73.3-129 | | 9020302 | MS | 03-Feb-19 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 89.8 % | 41-142 | | 9020305 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 91.5 % | 37.6-147 | | 9020305 | MS | 04-Feb-19 | 8015B | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 4 @ 0-6"
H900378-13 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

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Inorganic Compounds

| | | | | | | | | | | |
|----------|-----|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 128 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|-----|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

S-04

| | | | | | | | | | | |
|----------------|------|--|-------|-------|-----|---------|----|-----------|-------|--|
| Benzene* | 9.52 | | 0.500 | mg/kg | 500 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Toluene* | 64.4 | | 0.500 | mg/kg | 500 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Ethylbenzene* | 78.1 | | 0.500 | mg/kg | 500 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total Xylenes* | 95.1 | | 1.50 | mg/kg | 500 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total BTEX | 247 | | 3.00 | mg/kg | 500 | 9020302 | MS | 03-Feb-19 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | 139 % | | 73.3-129 | | 9020302 | MS | 03-Feb-19 | 8021B | |
|---------------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

S-06

| | | | | | | | | | | |
|------------------|------|--|-----|-------|----|---------|----|-----------|-------|--|
| GRO C6-C10* | 2740 | | 100 | mg/kg | 10 | 9020305 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | 7880 | | 100 | mg/kg | 10 | 9020305 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | 833 | | 100 | mg/kg | 10 | 9020305 | MS | 04-Feb-19 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|-------|--|--------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | 207 % | | 41-142 | | 9020305 | MS | 04-Feb-19 | 8015B | |
|---------------------------|--|-------|--|--------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | 267 % | | 37.6-147 | | 9020305 | MS | 04-Feb-19 | 8015B | |
|-------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 4 @ 6"-1'
H900378-14 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|
| Chloride | 64.0 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | |
|-----------------------|-------------|------|-------|------|---------|----|-----------|-------|
| Benzene* | 26.9 | 1.00 | mg/kg | 1000 | 9020302 | MS | 03-Feb-19 | 8021B |
| Toluene* | 154 | 1.00 | mg/kg | 1000 | 9020302 | MS | 03-Feb-19 | 8021B |
| Ethylbenzene* | 129 | 1.00 | mg/kg | 1000 | 9020302 | MS | 03-Feb-19 | 8021B |
| Total Xylenes* | 146 | 3.00 | mg/kg | 1000 | 9020302 | MS | 03-Feb-19 | 8021B |
| Total BTEX | 456 | 6.00 | mg/kg | 1000 | 9020302 | MS | 03-Feb-19 | 8021B |

| | | | | | | |
|--|--------------|-----------------|----------------|-----------|------------------|--------------|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | <i>126 %</i> | <i>73.3-129</i> | <i>9020302</i> | <i>MS</i> | <i>03-Feb-19</i> | <i>8021B</i> |
|--|--------------|-----------------|----------------|-----------|------------------|--------------|

Petroleum Hydrocarbons by GC FID

S-06

| | | | | | | | | |
|----------------------------|-------------|-----|-------|----|---------|----|-----------|-------|
| GRO C6-C10* | 3940 | 100 | mg/kg | 10 | 9020305 | MS | 04-Feb-19 | 8015B |
| DRO >C10-C28* | 8270 | 100 | mg/kg | 10 | 9020305 | MS | 04-Feb-19 | 8015B |
| EXT DRO >C28-C36 | 1100 | 100 | mg/kg | 10 | 9020305 | MS | 04-Feb-19 | 8015B |

| | | | | | | |
|----------------------------------|--------------|---------------|----------------|-----------|------------------|--------------|
| <i>Surrogate: 1-Chlorooctane</i> | <i>209 %</i> | <i>41-142</i> | <i>9020305</i> | <i>MS</i> | <i>04-Feb-19</i> | <i>8015B</i> |
|----------------------------------|--------------|---------------|----------------|-----------|------------------|--------------|

| | | | | | | |
|--------------------------------------|--------------|-----------------|----------------|-----------|------------------|--------------|
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>274 %</i> | <i>37.6-147</i> | <i>9020305</i> | <i>MS</i> | <i>04-Feb-19</i> | <i>8015B</i> |
|--------------------------------------|--------------|-----------------|----------------|-----------|------------------|--------------|

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 4 @ 2'
H900378-15 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|-------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | <16.0 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|-------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|-----------------------|-------------|--|------|-------|------|---------|----|-----------|-------|--|
| Benzene* | 11.9 | | 1.00 | mg/kg | 1000 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Toluene* | 77.6 | | 1.00 | mg/kg | 1000 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Ethylbenzene* | 82.8 | | 1.00 | mg/kg | 1000 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total Xylenes* | 98.8 | | 3.00 | mg/kg | 1000 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total BTEX | 271 | | 6.00 | mg/kg | 1000 | 9020302 | MS | 03-Feb-19 | 8021B | |

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.3-129 9020302 MS 03-Feb-19 8021B

Petroleum Hydrocarbons by GC FID

S-06

| | | | | | | | | | | |
|----------------------------|-------------|--|-----|-------|----|---------|----|-----------|-------|--|
| GRO C6-C10* | 2910 | | 100 | mg/kg | 10 | 9020305 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | 7800 | | 100 | mg/kg | 10 | 9020305 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | 1020 | | 100 | mg/kg | 10 | 9020305 | MS | 04-Feb-19 | 8015B | |

Surrogate: 1-Chlorooctane 203 % 41-142 9020305 MS 04-Feb-19 8015B

Surrogate: 1-Chlorooctadecane 271 % 37.6-147 9020305 MS 04-Feb-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 4 @ 3'
H900378-16 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 32.0 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|-------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | 0.105 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Toluene* | 0.406 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Ethylbenzene* | 0.400 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total Xylenes* | 0.608 | | 0.150 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total BTEX | 1.52 | | 0.300 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | 106 % | | 73.3-129 | | 9020302 | MS | 03-Feb-19 | 8021B | |
|---------------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | 106 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--------|--|--------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | 85.0 % | | 41-142 | | 9020305 | MS | 04-Feb-19 | 8015B | |
|---------------------------|--|--------|--|--------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | 84.0 % | | 37.6-147 | | 9020305 | MS | 04-Feb-19 | 8015B | |
|-------------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 4 @ 4'
H900378-17 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|------|--|------|-------|------|---------|----|-----------|-------|--|
| Benzene* | 14.2 | | 1.00 | mg/kg | 1000 | 9020302 | MS | 04-Feb-19 | 8021B | |
| Toluene* | 79.2 | | 1.00 | mg/kg | 1000 | 9020302 | MS | 04-Feb-19 | 8021B | |
| Ethylbenzene* | 79.6 | | 1.00 | mg/kg | 1000 | 9020302 | MS | 04-Feb-19 | 8021B | |
| Total Xylenes* | 99.8 | | 3.00 | mg/kg | 1000 | 9020302 | MS | 04-Feb-19 | 8021B | |
| Total BTEX | 273 | | 6.00 | mg/kg | 1000 | 9020302 | MS | 04-Feb-19 | 8021B | |

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.3-129 9020302 MS 04-Feb-19 8021B

Petroleum Hydrocarbons by GC FID

S-06

| | | | | | | | | | | |
|------------------|------|--|-----|-------|----|---------|----|-----------|-------|--|
| GRO C6-C10* | 3080 | | 100 | mg/kg | 10 | 9020305 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | 8950 | | 100 | mg/kg | 10 | 9020305 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | 1190 | | 100 | mg/kg | 10 | 9020305 | MS | 04-Feb-19 | 8015B | |

Surrogate: 1-Chlorooctane 221 % 41-142 9020305 MS 04-Feb-19 8015B

Surrogate: 1-Chlorooctadecane 311 % 37.6-147 9020305 MS 04-Feb-19 8015B

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 4 @ 5'
H900378-18 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------------|--------------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 04-Feb-19 | 8021B | |
| Toluene* | 0.123 | | 0.050 | mg/kg | 50 | 9020302 | MS | 04-Feb-19 | 8021B | |
| Ethylbenzene* | 0.073 | | 0.050 | mg/kg | 50 | 9020302 | MS | 04-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020302 | MS | 04-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020302 | MS | 04-Feb-19 | 8021B | |

| | | | | | | | | | | |
|--|--|--|--------|--|----------|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 98.2 % | | 73.3-129 | 9020302 | MS | 04-Feb-19 | 8021B | |
|--|--|--|--------|--|----------|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|----------------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | 20.6 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | 12.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |

| | | | | | | | | | | |
|----------------------------------|--|--|--------|--|--------|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | | 90.7 % | | 41-142 | 9020305 | MS | 04-Feb-19 | 8015B | |
|----------------------------------|--|--|--------|--|--------|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|--------------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 88.3 % | | 37.6-147 | 9020305 | MS | 04-Feb-19 | 8015B | |
|--------------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 5 @ 0-6"
H900378-19 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|-----|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 160 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|-----|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|------|--|-------|-------|-----|---------|----|-----------|-------|--|
| Benzene* | 15.7 | | 0.500 | mg/kg | 500 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Toluene* | 95.0 | | 0.500 | mg/kg | 500 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Ethylbenzene* | 83.4 | | 0.500 | mg/kg | 500 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total Xylenes* | 102 | | 1.50 | mg/kg | 500 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total BTEX | 296 | | 3.00 | mg/kg | 500 | 9020302 | MS | 03-Feb-19 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 123 % | 73.3-129 | | 9020302 | MS | 03-Feb-19 | 8021B | |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | 1000 | | 50.0 | mg/kg | 5 | 9020305 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | 2180 | | 50.0 | mg/kg | 5 | 9020305 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | 163 | | 50.0 | mg/kg | 5 | 9020305 | MS | 04-Feb-19 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|-------|--------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 127 % | 41-142 | | 9020305 | MS | 04-Feb-19 | 8015B | |
|---------------------------|--|--|-------|--------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 137 % | 37.6-147 | | 9020305 | MS | 04-Feb-19 | 8015B | |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 5 @ 6"-1'
H900378-20 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 96.0 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Toluene* | 0.118 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Ethylbenzene* | 0.123 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total Xylenes* | 0.193 | | 0.150 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total BTEX | 0.434 | | 0.300 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 73.3-129 9020302 MS 03-Feb-19 8021B

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | 17.2 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |

Surrogate: 1-Chlorooctane 81.0 % 41-142 9020305 MS 04-Feb-19 8015B

Surrogate: 1-Chlorooctadecane 78.9 % 37.6-147 9020305 MS 04-Feb-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 6 N @ 1'
H900378-21 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|
| Chloride | 16.0 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | |
|---------------------------------------|--------|--------|-------|----------|---------|----|-----------|-------|
| Benzene* | <0.050 | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B |
| Toluene* | <0.050 | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B |
| Ethylbenzene* | <0.050 | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B |
| Total Xylenes* | <0.150 | 0.150 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B |
| Total BTEX | <0.300 | 0.300 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B |
| Surrogate: 4-Bromofluorobenzene (PID) | | 88.8 % | | 73.3-129 | 9020302 | MS | 03-Feb-19 | 8021B |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | |
|-------------------------------|-------|--------|-------|----------|---------|----|-----------|-------|
| GRO C6-C10* | <10.0 | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B |
| DRO >C10-C28* | <10.0 | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B |
| EXT DRO >C28-C36 | <10.0 | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B |
| Surrogate: 1-Chlorooctane | | 89.2 % | | 41-142 | 9020305 | MS | 04-Feb-19 | 8015B |
| Surrogate: 1-Chlorooctadecane | | 83.3 % | | 37.6-147 | 9020305 | MS | 04-Feb-19 | 8015B |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 6 S @ 1'
H900378-22 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|-------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | <16.0 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|-------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|--------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 88.4 % | 73.3-129 | | 9020302 | MS | 03-Feb-19 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 86.7 % | 41-142 | | 9020305 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 80.9 % | 37.6-147 | | 9020305 | MS | 04-Feb-19 | 8015B | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 6 W @ 1'
H900378-23 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|-------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | <16.0 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|-------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 95.0 % | 73.3-129 | | 9020302 | MS | 03-Feb-19 | 8021B | |
|---------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|--------|--------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 83.1 % | 41-142 | | 9020305 | MS | 04-Feb-19 | 8015B | |
|---------------------------|--|--|--------|--------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 77.2 % | 37.6-147 | | 9020305 | MS | 04-Feb-19 | 8015B | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 6 E @ 1' H900378-24 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

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Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 32.0 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|--------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 96.9 % | 73.3-129 | | 9020302 | MS | 03-Feb-19 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 80.8 % | 41-142 | | 9020305 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 74.7 % | 37.6-147 | | 9020305 | MS | 04-Feb-19 | 8015B | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 5 S @ 3' H900378-25 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 32.0 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|--------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 91.2 % | 73.3-129 | | 9020302 | MS | 03-Feb-19 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020305 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 83.1 % | 41-142 | | 9020305 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 76.4 % | 37.6-147 | | 9020305 | MS | 04-Feb-19 | 8015B | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 5 E @ 3' H900378-26 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

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Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 16.0 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|--------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 89.6 % | 73.3-129 | | 9020302 | MS | 03-Feb-19 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 92.9 % | 41-142 | | 9020119 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 91.2 % | 37.6-147 | | 9020119 | MS | 04-Feb-19 | 8015B | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 4 W @ 2.5'

H900378-27 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|
| Chloride | 32.0 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | |
|----------------|--------|-------|-------|----|---------|----|-----------|-------|
| Benzene* | <0.050 | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B |
| Toluene* | <0.050 | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B |
| Ethylbenzene* | <0.050 | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B |
| Total Xylenes* | <0.150 | 0.150 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B |
| Total BTEX | <0.300 | 0.300 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B |

| | | | | | | | | |
|--|--|--------|--|----------|---------|----|-----------|-------|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | 95.5 % | | 73.3-129 | 9020302 | MS | 03-Feb-19 | 8021B |
|--|--|--------|--|----------|---------|----|-----------|-------|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | |
|------------------|-------|------|-------|---|---------|----|-----------|-------|
| GRO C6-C10* | <10.0 | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B |
| DRO >C10-C28* | <10.0 | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B |
| EXT DRO >C28-C36 | <10.0 | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B |

| | | | | | | | | |
|----------------------------------|--|--------|--|--------|---------|----|-----------|-------|
| <i>Surrogate: 1-Chlorooctane</i> | | 88.3 % | | 41-142 | 9020119 | MS | 04-Feb-19 | 8015B |
|----------------------------------|--|--------|--|--------|---------|----|-----------|-------|

| | | | | | | | | |
|--------------------------------------|--|--------|--|----------|---------|----|-----------|-------|
| <i>Surrogate: 1-Chlorooctadecane</i> | | 86.3 % | | 37.6-147 | 9020119 | MS | 04-Feb-19 | 8015B |
|--------------------------------------|--|--------|--|----------|---------|----|-----------|-------|

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 3 S @ 2' H900378-28 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 16.0 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|--------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 93.8 % | 73.3-129 | | 9020302 | MS | 03-Feb-19 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 87.2 % | 41-142 | | 9020119 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 88.4 % | 37.6-147 | | 9020119 | MS | 04-Feb-19 | 8015B | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 1 S @ 1'
H900378-29 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 9020405 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|--------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 90.0 % | 73.3-129 | | 9020302 | MS | 03-Feb-19 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 88.0 % | 41-142 | | 9020119 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 88.1 % | 37.6-147 | | 9020119 | MS | 04-Feb-19 | 8015B | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 1 N @ 1'
H900378-30 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 9020406 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020302 | MS | 03-Feb-19 | 8021B | |

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 73.3-129 9020302 MS 03-Feb-19 8021B

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |

Surrogate: 1-Chlorooctane 86.8 % 41-142 9020119 MS 04-Feb-19 8015B

Surrogate: 1-Chlorooctadecane 86.4 % 37.6-147 9020119 MS 04-Feb-19 8015B

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 5 @ 2'
H900378-31 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 9020406 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|--------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 98.9 % | 73.3-129 | | 9020303 | ms | 04-Feb-19 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 87.4 % | 41-142 | | 9020119 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 91.1 % | 37.6-147 | | 9020119 | MS | 04-Feb-19 | 8015B | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 5 @ 3'
H900378-32 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 16.0 | | 16.0 | mg/kg | 4 | 9020406 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 99.7 % | 73.3-129 | | 9020303 | ms | 04-Feb-19 | 8021B | |
|---------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|--------|--------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 90.2 % | 41-142 | | 9020119 | MS | 04-Feb-19 | 8015B | |
|---------------------------|--|--|--------|--------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 91.9 % | 37.6-147 | | 9020119 | MS | 04-Feb-19 | 8015B | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 5 @ 4'
H900378-33 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 32.0 | | 16.0 | mg/kg | 4 | 9020406 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|--------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 99.9 % | 73.3-129 | | 9020303 | ms | 04-Feb-19 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 93.1 % | 41-142 | | 9020119 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 92.6 % | 37.6-147 | | 9020119 | MS | 04-Feb-19 | 8015B | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 5 @ 5' H900378-34 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

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Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 32.0 | | 16.0 | mg/kg | 4 | 9020406 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|-------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 101 % | 73.3-129 | | 9020303 | ms | 04-Feb-19 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 86.7 % | 41-142 | | 9020119 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 87.1 % | 37.6-147 | | 9020119 | MS | 04-Feb-19 | 8015B | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 5 @ 6' H900378-35 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|-------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | <16.0 | | 16.0 | mg/kg | 4 | 9020406 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|-------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------------|--|-------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Toluene* | 0.156 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Ethylbenzene* | 0.116 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 101 % | 73.3-129 | | 9020303 | ms | 04-Feb-19 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 88.9 % | 41-142 | | 9020119 | MS | 04-Feb-19 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 86.7 % | 37.6-147 | | 9020119 | MS | 04-Feb-19 | 8015B | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 6 @ 0-6"
H900378-36 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 64.0 | | 16.0 | mg/kg | 4 | 9020406 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|------|--|------|-------|------|---------|----|-----------|-------|--|
| Benzene* | 19.7 | | 2.00 | mg/kg | 2000 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Toluene* | 266 | | 2.00 | mg/kg | 2000 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Ethylbenzene* | 270 | | 2.00 | mg/kg | 2000 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total Xylenes* | 347 | | 6.00 | mg/kg | 2000 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total BTEX | 903 | | 12.0 | mg/kg | 2000 | 9020303 | ms | 04-Feb-19 | 8021B | |

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.3-129 9020303 ms 04-Feb-19 8021B

Petroleum Hydrocarbons by GC FID

S-06

| | | | | | | | | | | |
|------------------|-------|--|-----|-------|----|---------|----|-----------|-------|--|
| GRO C6-C10* | 9980 | | 100 | mg/kg | 10 | 9020119 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | 32800 | | 100 | mg/kg | 10 | 9020119 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | 4900 | | 100 | mg/kg | 10 | 9020119 | MS | 04-Feb-19 | 8015B | |

Surrogate: 1-Chlorooctane 416 % 41-142 9020119 MS 04-Feb-19 8015B

Surrogate: 1-Chlorooctadecane 870 % 37.6-147 9020119 MS 04-Feb-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 6 @ 6"-1'
H900378-37 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|-------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | <16.0 | | 16.0 | mg/kg | 4 | 9020406 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|-------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|-----------------------|-------------|--|------|-------|------|---------|----|-----------|-------|--|
| Benzene* | 7.12 | | 2.00 | mg/kg | 2000 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Toluene* | 122 | | 2.00 | mg/kg | 2000 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Ethylbenzene* | 127 | | 2.00 | mg/kg | 2000 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total Xylenes* | 165 | | 6.00 | mg/kg | 2000 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total BTEX | 422 | | 12.0 | mg/kg | 2000 | 9020303 | ms | 04-Feb-19 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|-------|----------|--|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | 110 % | 73.3-129 | | | 9020303 | ms | 04-Feb-19 | 8021B | |
|---------------------------------------|--|-------|----------|--|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

S-06

| | | | | | | | | | | |
|----------------------------|--------------|--|-----|-------|----|---------|----|-----------|-------|--|
| GRO C6-C10* | 4830 | | 100 | mg/kg | 10 | 9020119 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | 12000 | | 100 | mg/kg | 10 | 9020119 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | 1890 | | 100 | mg/kg | 10 | 9020119 | MS | 04-Feb-19 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|-------|--------|--|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | 276 % | 41-142 | | | 9020119 | MS | 04-Feb-19 | 8015B | |
|---------------------------|--|-------|--------|--|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|-------|----------|--|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | 368 % | 37.6-147 | | | 9020119 | MS | 04-Feb-19 | 8015B | |
|-------------------------------|--|-------|----------|--|--|---------|----|-----------|-------|--|

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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 6 @ 2'
H900378-38 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|-------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | <16.0 | | 16.0 | mg/kg | 4 | 9020406 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|-------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Toluene* | 0.093 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Ethylbenzene* | 0.128 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total Xylenes* | 0.200 | | 0.150 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total BTEX | 0.421 | | 0.300 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 102 % | 73.3-129 | | 9020303 | ms | 04-Feb-19 | 8021B | |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | 53.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | 41.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|--------|--------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 88.3 % | 41-142 | | 9020119 | MS | 04-Feb-19 | 8015B | |
|---------------------------|--|--|--------|--------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 88.7 % | 37.6-147 | | 9020119 | MS | 04-Feb-19 | 8015B | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

TT 1 E @ 1' H900378-39 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 9020406 | AC | 04-Feb-19 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 9020303 | ms | 04-Feb-19 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 100 % | 73.3-129 | | 9020303 | ms | 04-Feb-19 | 8021B | |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| DRO >C10-C28* | 69.8 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |
| EXT DRO >C28-C36 | 12.0 | | 10.0 | mg/kg | 1 | 9020119 | MS | 04-Feb-19 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|--------|--------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 88.6 % | 41-142 | | 9020119 | MS | 04-Feb-19 | 8015B | |
|---------------------------|--|--|--------|--------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 88.4 % | 37.6-147 | | 9020119 | MS | 04-Feb-19 | 8015B | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

Inorganic Compounds - Quality Control

Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 9020403 - General Prep - Wet Chem

Blank (9020403-BLK1) Prepared: 03-Feb-19 Analyzed: 04-Feb-19

Chloride ND 16.0 mg/kg

LCS (9020403-BS1) Prepared: 03-Feb-19 Analyzed: 04-Feb-19

Chloride 432 16.0 mg/kg 400 108 80-120

LCS Dup (9020403-BSD1) Prepared: 03-Feb-19 Analyzed: 04-Feb-19

Chloride 432 16.0 mg/kg 400 108 80-120 0.00 20

Batch 9020405 - General Prep - Wet Chem

Blank (9020405-BLK1) Prepared & Analyzed: 04-Feb-19

Chloride ND 16.0 mg/kg

LCS (9020405-BS1) Prepared & Analyzed: 04-Feb-19

Chloride 432 16.0 mg/kg 400 108 80-120

LCS Dup (9020405-BSD1) Prepared & Analyzed: 04-Feb-19

Chloride 432 16.0 mg/kg 400 108 80-120 0.00 20

Batch 9020406 - General Prep - Wet Chem

Blank (9020406-BLK1) Prepared & Analyzed: 04-Feb-19

Chloride ND 16.0 mg/kg

LCS (9020406-BS1) Prepared & Analyzed: 04-Feb-19

Chloride 416 16.0 mg/kg 400 104 80-120

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRC
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705

 Project: CARMEN FED #1
 Project Number: NONE GIVEN
 Project Manager: BRIAN COOPER
 Fax To:

 Reported:
 04-Feb-19 18:19

Inorganic Compounds - Quality Control
Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch 9020406 - General Prep - Wet Chem
LCS Dup (9020406-BSD1)

Prepared & Analyzed: 04-Feb-19

| | | | | | | | | | | |
|----------|-----|------|-------|-----|--|-----|--------|------|----|--|
| Chloride | 416 | 16.0 | mg/kg | 400 | | 104 | 80-120 | 0.00 | 20 | |
|----------|-----|------|-------|-----|--|-----|--------|------|----|--|

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 9020301 - Volatiles

Blank (9020301-BLK1)

Prepared & Analyzed: 03-Feb-19

| | | | | | | | | | | |
|---------------------------------------|-------|-------|-------|-------|--|-----|----------|--|--|--|
| Benzene | ND | 0.050 | mg/kg | | | | | | | |
| Toluene | ND | 0.050 | mg/kg | | | | | | | |
| Ethylbenzene | ND | 0.050 | mg/kg | | | | | | | |
| Total Xylenes | ND | 0.150 | mg/kg | | | | | | | |
| Total BTEX | ND | 0.300 | mg/kg | | | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.102 | | mg/kg | 0.100 | | 102 | 73.3-129 | | | |

LCS (9020301-BS1)

Prepared & Analyzed: 03-Feb-19

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene | 2.20 | 0.050 | mg/kg | 2.00 | | 110 | 72.2-131 | | | |
| Toluene | 2.08 | 0.050 | mg/kg | 2.00 | | 104 | 71.7-126 | | | |
| Ethylbenzene | 2.03 | 0.050 | mg/kg | 2.00 | | 101 | 68.9-126 | | | |
| Total Xylenes | 6.31 | 0.150 | mg/kg | 6.00 | | 105 | 71.4-125 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0979 | | mg/kg | 0.100 | | 97.9 | 73.3-129 | | | |

LCS Dup (9020301-BSD1)

Prepared & Analyzed: 03-Feb-19

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|-------|--|------|----------|-------|------|--|
| Benzene | 2.17 | 0.050 | mg/kg | 2.00 | | 108 | 72.2-131 | 1.59 | 6.91 | |
| Toluene | 2.04 | 0.050 | mg/kg | 2.00 | | 102 | 71.7-126 | 1.66 | 7.12 | |
| Ethylbenzene | 2.00 | 0.050 | mg/kg | 2.00 | | 100 | 68.9-126 | 1.08 | 7.88 | |
| Total Xylenes | 6.27 | 0.150 | mg/kg | 6.00 | | 104 | 71.4-125 | 0.689 | 7.46 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0982 | | mg/kg | 0.100 | | 98.2 | 73.3-129 | | | |

Batch 9020302 - Volatiles

Blank (9020302-BLK1)

Prepared & Analyzed: 03-Feb-19

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene | ND | 0.050 | mg/kg | | | | | | | |
| Toluene | ND | 0.050 | mg/kg | | | | | | | |
| Ethylbenzene | ND | 0.050 | mg/kg | | | | | | | |
| Total Xylenes | ND | 0.150 | mg/kg | | | | | | | |
| Total BTEX | ND | 0.300 | mg/kg | | | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0972 | | mg/kg | 0.100 | | 97.2 | 73.3-129 | | | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 9020302 - Volatiles

LCS (9020302-BS1)

Prepared & Analyzed: 03-Feb-19

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene | 1.90 | 0.050 | mg/kg | 2.00 | | 95.0 | 72.2-131 | | | |
| Toluene | 1.94 | 0.050 | mg/kg | 2.00 | | 96.8 | 71.7-126 | | | |
| Ethylbenzene | 1.88 | 0.050 | mg/kg | 2.00 | | 94.2 | 68.9-126 | | | |
| Total Xylenes | 5.52 | 0.150 | mg/kg | 6.00 | | 91.9 | 71.4-125 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0985 | | mg/kg | 0.100 | | 98.5 | 73.3-129 | | | |

LCS Dup (9020302-BS1)

Prepared & Analyzed: 03-Feb-19

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|-------|--|------|----------|------|------|--|
| Benzene | 1.86 | 0.050 | mg/kg | 2.00 | | 93.0 | 72.2-131 | 2.15 | 6.91 | |
| Toluene | 1.89 | 0.050 | mg/kg | 2.00 | | 94.3 | 71.7-126 | 2.61 | 7.12 | |
| Ethylbenzene | 1.79 | 0.050 | mg/kg | 2.00 | | 89.5 | 68.9-126 | 5.13 | 7.88 | |
| Total Xylenes | 5.20 | 0.150 | mg/kg | 6.00 | | 86.6 | 71.4-125 | 5.95 | 7.46 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0928 | | mg/kg | 0.100 | | 92.8 | 73.3-129 | | | |

Batch 9020303 - Volatiles

Blank (9020303-BLK1)

Prepared & Analyzed: 03-Feb-19

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene | ND | 0.050 | mg/kg | | | | | | | |
| Toluene | ND | 0.050 | mg/kg | | | | | | | |
| Ethylbenzene | ND | 0.050 | mg/kg | | | | | | | |
| Total Xylenes | ND | 0.150 | mg/kg | | | | | | | |
| Total BTEX | ND | 0.300 | mg/kg | | | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0995 | | mg/kg | 0.100 | | 99.5 | 73.3-129 | | | |

LCS (9020303-BS1)

Prepared & Analyzed: 03-Feb-19

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene | 2.17 | 0.050 | mg/kg | 2.00 | | 108 | 72.2-131 | | | |
| Toluene | 2.06 | 0.050 | mg/kg | 2.00 | | 103 | 71.7-126 | | | |
| Ethylbenzene | 2.04 | 0.050 | mg/kg | 2.00 | | 102 | 68.9-126 | | | |
| Total Xylenes | 6.19 | 0.150 | mg/kg | 6.00 | | 103 | 71.4-125 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0988 | | mg/kg | 0.100 | | 98.8 | 73.3-129 | | | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:Reported:
04-Feb-19 18:19**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|--------------------|-------|----------------|------------------|------|----------------|-------|--------------|-------|
| Batch 9020303 - Volatiles | | | | | | | | | | |
| LCS Dup (9020303-BSD1) | | | | | | | | | | |
| Prepared & Analyzed: 03-Feb-19 | | | | | | | | | | |
| Benzene | 2.18 | 0.050 | mg/kg | 2.00 | | 109 | 72.2-131 | 0.766 | 6.91 | |
| Toluene | 2.06 | 0.050 | mg/kg | 2.00 | | 103 | 71.7-126 | 0.165 | 7.12 | |
| Ethylbenzene | 2.00 | 0.050 | mg/kg | 2.00 | | 100 | 68.9-126 | 1.83 | 7.88 | |
| Total Xylenes | 6.10 | 0.150 | mg/kg | 6.00 | | 102 | 71.4-125 | 1.33 | 7.46 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0971 | | mg/kg | 0.100 | | 97.1 | 73.3-129 | | | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 9020119 - General Prep - Organics

Blank (9020119-BLK1)

Prepared: 01-Feb-19 Analyzed: 04-Feb-19

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|--|
| GRO C6-C10 | ND | 10.0 | mg/kg | | | | | | | |
| DRO >C10-C28 | ND | 10.0 | mg/kg | | | | | | | |
| EXT DRO >C28-C36 | ND | 10.0 | mg/kg | | | | | | | |
| Surrogate: 1-Chlorooctane | 47.2 | | mg/kg | 50.0 | | 94.4 | 41-142 | | | |
| Surrogate: 1-Chlorooctadecane | 47.7 | | mg/kg | 50.0 | | 95.3 | 37.6-147 | | | |

LCS (9020119-BS1)

Prepared: 01-Feb-19 Analyzed: 04-Feb-19

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|--|
| GRO C6-C10 | 255 | 10.0 | mg/kg | 200 | | 128 | 76.5-133 | | | |
| DRO >C10-C28 | 212 | 10.0 | mg/kg | 200 | | 106 | 72.9-138 | | | |
| Total TPH C6-C28 | 467 | 10.0 | mg/kg | 400 | | 117 | 78-132 | | | |
| Surrogate: 1-Chlorooctane | 48.5 | | mg/kg | 50.0 | | 97.1 | 41-142 | | | |
| Surrogate: 1-Chlorooctadecane | 49.3 | | mg/kg | 50.0 | | 98.5 | 37.6-147 | | | |

LCS Dup (9020119-BSD1)

Prepared: 01-Feb-19 Analyzed: 04-Feb-19

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|-------|------|--|
| GRO C6-C10 | 254 | 10.0 | mg/kg | 200 | | 127 | 76.5-133 | 0.537 | 20.6 | |
| DRO >C10-C28 | 216 | 10.0 | mg/kg | 200 | | 108 | 72.9-138 | 1.75 | 20.6 | |
| Total TPH C6-C28 | 470 | 10.0 | mg/kg | 400 | | 117 | 78-132 | 0.508 | 18 | |
| Surrogate: 1-Chlorooctane | 48.2 | | mg/kg | 50.0 | | 96.3 | 41-142 | | | |
| Surrogate: 1-Chlorooctadecane | 49.0 | | mg/kg | 50.0 | | 98.0 | 37.6-147 | | | |

Batch 9020304 - General Prep - Organics

Blank (9020304-BLK1)

Prepared & Analyzed: 03-Feb-19

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|--|
| GRO C6-C10 | ND | 10.0 | mg/kg | | | | | | | |
| DRO >C10-C28 | ND | 10.0 | mg/kg | | | | | | | |
| EXT DRO >C28-C36 | ND | 10.0 | mg/kg | | | | | | | |
| Surrogate: 1-Chlorooctane | 45.9 | | mg/kg | 50.0 | | 91.8 | 41-142 | | | |
| Surrogate: 1-Chlorooctadecane | 44.6 | | mg/kg | 50.0 | | 89.2 | 37.6-147 | | | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|

Batch 9020304 - General Prep - Organics

LCS (9020304-BS1)

Prepared & Analyzed: 03-Feb-19

| | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|
| GRO C6-C10 | 176 | 10.0 | mg/kg | 200 | | 88.0 | 76.5-133 | | |
| DRO >C10-C28 | 186 | 10.0 | mg/kg | 200 | | 93.1 | 72.9-138 | | |
| Total TPH C6-C28 | 362 | 10.0 | mg/kg | 400 | | 90.6 | 78-132 | | |
| Surrogate: 1-Chlorooctane | 47.6 | | mg/kg | 50.0 | | 95.2 | 41-142 | | |
| Surrogate: 1-Chlorooctadecane | 45.1 | | mg/kg | 50.0 | | 90.2 | 37.6-147 | | |

LCS Dup (9020304-BS1)

Prepared & Analyzed: 03-Feb-19

| | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|------|------|
| GRO C6-C10 | 180 | 10.0 | mg/kg | 200 | | 89.8 | 76.5-133 | 1.97 | 20.6 |
| DRO >C10-C28 | 189 | 10.0 | mg/kg | 200 | | 94.6 | 72.9-138 | 1.62 | 20.6 |
| Total TPH C6-C28 | 369 | 10.0 | mg/kg | 400 | | 92.2 | 78-132 | 1.79 | 18 |
| Surrogate: 1-Chlorooctane | 50.0 | | mg/kg | 50.0 | | 100 | 41-142 | | |
| Surrogate: 1-Chlorooctadecane | 46.0 | | mg/kg | 50.0 | | 92.0 | 37.6-147 | | |

Batch 9020305 - General Prep - Organics

Blank (9020305-BLK1)

Prepared: 03-Feb-19 Analyzed: 04-Feb-19

| | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|
| GRO C6-C10 | ND | 10.0 | mg/kg | | | | | | |
| DRO >C10-C28 | ND | 10.0 | mg/kg | | | | | | |
| EXT DRO >C28-C36 | ND | 10.0 | mg/kg | | | | | | |
| Surrogate: 1-Chlorooctane | 44.9 | | mg/kg | 50.0 | | 89.9 | 41-142 | | |
| Surrogate: 1-Chlorooctadecane | 42.8 | | mg/kg | 50.0 | | 85.6 | 37.6-147 | | |

LCS (9020305-BS1)

Prepared: 03-Feb-19 Analyzed: 04-Feb-19

| | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|
| GRO C6-C10 | 213 | 10.0 | mg/kg | 200 | | 106 | 76.5-133 | | |
| DRO >C10-C28 | 185 | 10.0 | mg/kg | 200 | | 92.7 | 72.9-138 | | |
| Total TPH C6-C28 | 398 | 10.0 | mg/kg | 400 | | 99.6 | 78-132 | | |
| Surrogate: 1-Chlorooctane | 46.0 | | mg/kg | 50.0 | | 92.0 | 41-142 | | |
| Surrogate: 1-Chlorooctadecane | 43.9 | | mg/kg | 50.0 | | 87.8 | 37.6-147 | | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: CARMEN FED #1
Project Number: NONE GIVEN
Project Manager: BRIAN COOPER
Fax To:

Reported:
04-Feb-19 18:19

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch 9020305 - General Prep - Organics

LCS Dup (9020305-BSD1)

Prepared: 03-Feb-19 Analyzed: 04-Feb-19

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|-------|------|--|
| GRO C6-C10 | 214 | 10.0 | mg/kg | 200 | | 107 | 76.5-133 | 0.638 | 20.6 | |
| DRO >C10-C28 | 188 | 10.0 | mg/kg | 200 | | 94.1 | 72.9-138 | 1.50 | 20.6 | |
| Total TPH C6-C28 | 403 | 10.0 | mg/kg | 400 | | 101 | 78-132 | 1.04 | 18 | |
| Surrogate: 1-Chlorooctane | 46.3 | | mg/kg | 50.0 | | 92.6 | 41-142 | | | |
| Surrogate: 1-Chlorooctadecane | 45.4 | | mg/kg | 50.0 | | 90.8 | 37.6-147 | | | |

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

| | |
|------|--|
| S-06 | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's. |
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Rush

154

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

[illegible]

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

Rushy

254

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|---------------------|--|--|--|--|--|--|--|--|--|----------------|--|--|--|--|--|--|--|--|--|-------------------------|--|--|--|--|--|--|--|--|--|
| Company Name: TRC | | | | | | | | | | P.O. #: | | | | | | | | | | BILL TO | | | | | | | | | | ANALYSIS REQUEST | | | | | | | | | |
| Project Manager: Brian Cooper | | | | | | | | | | Company: COG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: 10 Parker Dr. Suite 105 | | | | | | | | | | Attn: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City: Midland | | | | | | | | | | Address: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| State: TX | | | | | | | | | | City: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zip: | | | | | | | | | | State: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fax #: | | | | | | | | | | Zip: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project #: | | | | | | | | | | City: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Owner: | | | | | | | | | | State: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: | | | | | | | | | | Phone #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Location: Carmen Fed #1 | | | | | | | | | | Fax #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: Kyle Schuch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | | | | | | | | | | Sample I.D. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14900378 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 87 | | | | | | | | | | 87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 88 | | | | | | | | | | 88 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDINAL
Laboratories

Pushy

4. Test

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

[illegible]

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| | | | |
|---------------|------------------------------|-----------------------------|---------------|
| Phone Result: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | Add'l Phone # |
|---------------|------------------------------|-----------------------------|---------------|

REMARKS:

10

10

CHECKED BY:
(Initials)

7.

Rush

404

BILL TO

ANALYSIS REQUEST

[illegible]

| | | | |
|---------------|------------------------------|-----------------------------|----------------|
| Phone Result: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | Add'l Phone #: |
| Fax Result: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | Add'l Fax #: |
| REMARKS: | | | |

REMARKS:

May 10, 2019

JARED STOFFEL

TRC

10 DESTA DR. SUITE 150 E

MIDLAND, TX 79705

RE: CARMEN FED #1

Enclosed are the results of analyses for samples received by the laboratory on 05/03/19 10:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/03/2019
Reported: 05/10/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A4 - FL - 1-4.5 (H901602-01)

| BTEx 8021B | | mg/kg | Analyzed By: ms | | | | | | |
|-----------------------|--------------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.09 | 104 | 2.00 | 3.25 | |
| Toluene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.18 | 109 | 2.00 | 1.96 | |
| Ethylbenzene* | 0.248 | 0.050 | 05/08/2019 | ND | 2.09 | 105 | 2.00 | 1.39 | |
| Total Xylenes* | 2.64 | 0.150 | 05/08/2019 | ND | 6.37 | 106 | 6.00 | 1.20 | |
| Total BTEX | 2.89 | 0.300 | 05/08/2019 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | Analyzed By: HM | | | | | | |
|----------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 05/07/2019 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | Analyzed By: MS | | | | | | |
|----------------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 39.8 | 10.0 | 05/06/2019 | ND | 205 | 103 | 200 | 4.85 | |
| DRO >C10-C28* | 915 | 10.0 | 05/06/2019 | ND | 197 | 98.4 | 200 | 6.99 | |
| EXT DRO >C28-C36 | 201 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/03/2019
Reported: 05/10/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A4 - FL - 2-4.5 (H901602-02)

| BTEx 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.09 | 104 | 2.00 | 3.25 | |
| Toluene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.18 | 109 | 2.00 | 1.96 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.09 | 105 | 2.00 | 1.39 | |
| Total Xylenes* | <0.150 | 0.150 | 05/08/2019 | ND | 6.37 | 106 | 6.00 | 1.20 | |
| Total BTEX | <0.300 | 0.300 | 05/08/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/06/2019 | ND | 205 | 103 | 200 | 4.85 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/06/2019 | ND | 197 | 98.4 | 200 | 6.99 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 99.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/03/2019
Reported: 05/10/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A4 - SW - 1-2.25 (H901602-03)

| BTEx 8021B | | mg/kg | Analyzed By: ms | | | | | | |
|----------------|--------------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.09 | 104 | 2.00 | 3.25 | |
| Toluene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.18 | 109 | 2.00 | 1.96 | |
| Ethylbenzene* | 0.130 | 0.050 | 05/08/2019 | ND | 2.09 | 105 | 2.00 | 1.39 | |
| Total Xylenes* | 1.81 | 0.150 | 05/08/2019 | ND | 6.37 | 106 | 6.00 | 1.20 | |
| Total BTEX | 1.94 | 0.300 | 05/08/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.3-129

| TPH 8015M | mg/kg | | Analyzed By: MS | | | | | S-04 | |
|------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 88.2 | 10.0 | 05/06/2019 | ND | 205 | 103 | 200 | 4.85 | |
| DRO >C10-C28* | 3070 | 10.0 | 05/06/2019 | ND | 197 | 98.4 | 200 | 6.99 | |
| EXT DRO >C28-C36 | 680 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 140 % 41-142

Surrogate: 1-Chlorooctadecane 172 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/03/2019
Reported: 05/10/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A4 - SW - 2-2.25 (H901602-04)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.09 | 104 | 2.00 | 3.25 | |
| Toluene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.18 | 109 | 2.00 | 1.96 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.09 | 105 | 2.00 | 1.39 | |
| Total Xylenes* | <0.150 | 0.150 | 05/08/2019 | ND | 6.37 | 106 | 6.00 | 1.20 | |
| Total BTEX | <0.300 | 0.300 | 05/08/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/06/2019 | ND | 205 | 103 | 200 | 4.85 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/06/2019 | ND | 197 | 98.4 | 200 | 6.99 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 93.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/03/2019
Reported: 05/10/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A5 - FL - 1-1 (H901602-05)

| BTEx 8021B | | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.04 | 102 | 2.00 | 0.687 | | |
| Toluene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.12 | 106 | 2.00 | 0.499 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.06 | 103 | 2.00 | 0.667 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/09/2019 | ND | 6.25 | 104 | 6.00 | 1.14 | | |
| Total BTEX | <0.300 | 0.300 | 05/09/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 48.0 | 16.0 | 05/07/2019 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/06/2019 | ND | 205 | 103 | 200 | 4.85 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/06/2019 | ND | 197 | 98.4 | 200 | 6.99 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 98.0 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/03/2019
Reported: 05/10/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A5 - FL - 2-1.5 (H901602-06)

| BTEx 8021B | | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.04 | 102 | 2.00 | 0.687 | | |
| Toluene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.12 | 106 | 2.00 | 0.499 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.06 | 103 | 2.00 | 0.667 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/09/2019 | ND | 6.25 | 104 | 6.00 | 1.14 | | |
| Total BTEX | <0.300 | 0.300 | 05/09/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/06/2019 | ND | 205 | 103 | 200 | 4.85 | |
| DRO >C10-C28* | 68.4 | 10.0 | 05/06/2019 | ND | 197 | 98.4 | 200 | 6.99 | |
| EXT DRO >C28-C36 | 13.5 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRC
 JARED STOFFEL
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

 Received: 05/03/2019
 Reported: 05/10/2019
 Project Name: CARMEN FED #1
 Project Number: NONE GIVEN
 Project Location: COG-LOCO HILLS, NM

 Sampling Date: 05/03/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A5 - FL - 3-2 (H901602-07)

| BTEx 8021B | | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.04 | 102 | 2.00 | 0.687 | | |
| Toluene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.12 | 106 | 2.00 | 0.499 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.06 | 103 | 2.00 | 0.667 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/09/2019 | ND | 6.25 | 104 | 6.00 | 1.14 | | |
| Total BTEX | <0.300 | 0.300 | 05/09/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/06/2019 | ND | 205 | 103 | 200 | 4.85 | |
| DRO >C10-C28* | 69.9 | 10.0 | 05/06/2019 | ND | 197 | 98.4 | 200 | 6.99 | |
| EXT DRO >C28-C36 | 14.2 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 94.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRC
 JARED STOFFEL
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

 Received: 05/03/2019
 Reported: 05/10/2019
 Project Name: CARMEN FED #1
 Project Number: NONE GIVEN
 Project Location: COG-LOCO HILLS, NM

 Sampling Date: 05/03/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A5 - FL - 4-2.5 (H901602-08)

| BTEx 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.04 | 102 | 2.00 | 0.687 | |
| Toluene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.12 | 106 | 2.00 | 0.499 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.06 | 103 | 2.00 | 0.667 | |
| Total Xylenes* | <0.150 | 0.150 | 05/09/2019 | ND | 6.25 | 104 | 6.00 | 1.14 | |
| Total BTEX | <0.300 | 0.300 | 05/09/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/06/2019 | ND | 205 | 103 | 200 | 4.85 | |
| DRO >C10-C28* | 19.9 | 10.0 | 05/06/2019 | ND | 197 | 98.4 | 200 | 6.99 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 99.3 % 41-142

Surrogate: 1-Chlorooctadecane 94.6 % 37.6-147

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/03/2019
Reported: 05/10/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A5 - SW - 1-1 (H901602-09)

| BTX 8021B | | mg/kg | Analyzed By: MS | | | | | S-04 | |
|----------------|--------------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/08/2019 | ND | 1.99 | 99.5 | 2.00 | 0.101 | |
| Toluene* | 0.237 | 0.050 | 05/08/2019 | ND | 2.22 | 111 | 2.00 | 3.97 | |
| Ethylbenzene* | 0.847 | 0.050 | 05/08/2019 | ND | 2.41 | 120 | 2.00 | 1.48 | QM-07 |
| Total Xylenes* | 1.38 | 0.150 | 05/08/2019 | ND | 7.08 | 118 | 6.00 | 4.46 | |
| Total BTX | 2.47 | 0.300 | 05/08/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 147 % 73.3-129

| TPH 8015M | | mg/kg | Analyzed By: MS | | | | | | |
|------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 27.2 | 10.0 | 05/06/2019 | ND | 205 | 103 | 200 | 4.85 | |
| DRO >C10-C28* | 1440 | 10.0 | 05/06/2019 | ND | 197 | 98.4 | 200 | 6.99 | |
| EXT DRO >C28-C36 | 380 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 135 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/03/2019
Reported: 05/10/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A5 - SW - 2-1 (H901602-10)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/08/2019 | ND | 1.99 | 99.5 | 2.00 | 0.101 | |
| Toluene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.22 | 111 | 2.00 | 3.97 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.41 | 120 | 2.00 | 1.48 | |
| Total Xylenes* | <0.150 | 0.150 | 05/08/2019 | ND | 7.08 | 118 | 6.00 | 4.46 | |
| Total BTEX | <0.300 | 0.300 | 05/08/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/06/2019 | ND | 205 | 103 | 200 | 4.85 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/06/2019 | ND | 197 | 98.4 | 200 | 6.99 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 92.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/03/2019
Reported: 05/10/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A6 - FL - 1-1.5 (H901602-11)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/08/2019 | ND | 1.99 | 99.5 | 2.00 | 0.101 | |
| Toluene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.22 | 111 | 2.00 | 3.97 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.41 | 120 | 2.00 | 1.48 | |
| Total Xylenes* | <0.150 | 0.150 | 05/08/2019 | ND | 7.08 | 118 | 6.00 | 4.46 | |
| Total BTEX | <0.300 | 0.300 | 05/08/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 05/07/2019 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/06/2019 | ND | 205 | 103 | 200 | 4.85 | |
| DRO >C10-C28* | 353 | 10.0 | 05/06/2019 | ND | 197 | 98.4 | 200 | 6.99 | |
| EXT DRO >C28-C36 | 97.1 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/03/2019
Reported: 05/10/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A6 - FL - 2-1.5 (H901602-12)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/08/2019 | ND | 1.99 | 99.5 | 2.00 | 0.101 | |
| Toluene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.22 | 111 | 2.00 | 3.97 | |
| Ethylbenzene* | 0.051 | 0.050 | 05/08/2019 | ND | 2.41 | 120 | 2.00 | 1.48 | |
| Total Xylenes* | <0.150 | 0.150 | 05/08/2019 | ND | 7.08 | 118 | 6.00 | 4.46 | |
| Total BTX | <0.300 | 0.300 | 05/08/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 20.5 | 10.0 | 05/06/2019 | ND | 205 | 103 | 200 | 4.85 | |
| DRO >C10-C28* | 856 | 10.0 | 05/06/2019 | ND | 197 | 98.4 | 200 | 6.99 | |
| EXT DRO >C28-C36 | 190 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/03/2019
Reported: 05/10/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A6 - FL - 3-1.5 (H901602-13)

| BTEx 8021B | | mg/kg | Analyzed By: MS | | | | | S-04 | |
|-----------------------|--------------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 0.100 | 0.050 | 05/10/2019 | ND | 1.99 | 99.5 | 2.00 | 0.101 | |
| Toluene* | 2.90 | 0.050 | 05/10/2019 | ND | 2.22 | 111 | 2.00 | 3.97 | |
| Ethylbenzene* | 5.13 | 0.050 | 05/10/2019 | ND | 2.41 | 120 | 2.00 | 1.48 | |
| Total Xylenes* | 7.03 | 0.150 | 05/10/2019 | ND | 7.08 | 118 | 6.00 | 4.46 | |
| Total BTEX | 15.2 | 0.300 | 05/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 202 % 73.3-129

| TPH 8015M | | mg/kg | Analyzed By: MS | | | | | S-04 | |
|----------------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 158 | 10.0 | 05/06/2019 | ND | 205 | 103 | 200 | 4.85 | |
| DRO >C10-C28* | 6360 | 10.0 | 05/06/2019 | ND | 197 | 98.4 | 200 | 6.99 | |
| EXT DRO >C28-C36 | 1550 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 156 % 41-142

Surrogate: 1-Chlorooctadecane 284 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/03/2019
Reported: 05/10/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A6 - FL - 4-1.5 (H901602-14)

| BTEx 8021B | | mg/kg | Analyzed By: MS | | | | | S-04 | |
|----------------|--------------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/08/2019 | ND | 1.99 | 99.5 | 2.00 | 0.101 | |
| Toluene* | 0.088 | 0.050 | 05/08/2019 | ND | 2.22 | 111 | 2.00 | 3.97 | |
| Ethylbenzene* | 0.468 | 0.050 | 05/08/2019 | ND | 2.41 | 120 | 2.00 | 1.48 | |
| Total Xylenes* | 0.840 | 0.150 | 05/08/2019 | ND | 7.08 | 118 | 6.00 | 4.46 | |
| Total BTEX | 1.40 | 0.300 | 05/08/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 135 % 73.3-129

| TPH 8015M | | mg/kg | Analyzed By: MS | | | | | | |
|------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 29.3 | 10.0 | 05/06/2019 | ND | 205 | 103 | 200 | 4.85 | |
| DRO >C10-C28* | 1610 | 10.0 | 05/06/2019 | ND | 197 | 98.4 | 200 | 6.99 | |
| EXT DRO >C28-C36 | 391 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 133 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/03/2019
Reported: 05/10/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A6 - SW - 1-0.75 (H901602-15)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/08/2019 | ND | 1.99 | 99.5 | 2.00 | 0.101 | | |
| Toluene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.22 | 111 | 2.00 | 3.97 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.41 | 120 | 2.00 | 1.48 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/08/2019 | ND | 7.08 | 118 | 6.00 | 4.46 | | |
| Total BTEX | <0.300 | 0.300 | 05/08/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/06/2019 | ND | 205 | 103 | 200 | 4.85 | |
| DRO >C10-C28* | 249 | 10.0 | 05/06/2019 | ND | 197 | 98.4 | 200 | 6.99 | |
| EXT DRO >C28-C36 | 83.6 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRC
 JARED STOFFEL
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

 Received: 05/03/2019
 Reported: 05/10/2019
 Project Name: CARMEN FED #1
 Project Number: NONE GIVEN
 Project Location: COG-LOCO HILLS, NM

 Sampling Date: 05/03/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A6 - SW - 2-0.75 (H901602-16)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/09/2019 | ND | 1.99 | 99.5 | 2.00 | 0.101 | | |
| Toluene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.22 | 111 | 2.00 | 3.97 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.41 | 120 | 2.00 | 1.48 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/09/2019 | ND | 7.08 | 118 | 6.00 | 4.46 | | |
| Total BTEX | <0.300 | 0.300 | 05/09/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/06/2019 | ND | 205 | 103 | 200 | 4.85 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/06/2019 | ND | 197 | 98.4 | 200 | 6.99 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 93.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/03/2019
Reported: 05/10/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A6 - SW - 3-0.75 (H901602-17)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/09/2019 | ND | 1.99 | 99.5 | 2.00 | 0.101 | | |
| Toluene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.22 | 111 | 2.00 | 3.97 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.41 | 120 | 2.00 | 1.48 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/09/2019 | ND | 7.08 | 118 | 6.00 | 4.46 | | |
| Total BTEX | <0.300 | 0.300 | 05/09/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/06/2019 | ND | 205 | 103 | 200 | 4.85 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/06/2019 | ND | 197 | 98.4 | 200 | 6.99 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/03/2019
Reported: 05/10/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A6 - SW - 4-0.75 (H901602-18)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/09/2019 | ND | 1.99 | 99.5 | 2.00 | 0.101 | | |
| Toluene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.22 | 111 | 2.00 | 3.97 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/09/2019 | ND | 2.41 | 120 | 2.00 | 1.48 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/09/2019 | ND | 7.08 | 118 | 6.00 | 4.46 | | |
| Total BTEX | <0.300 | 0.300 | 05/09/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 13.6 | 10.0 | 05/06/2019 | ND | 208 | 104 | 200 | 0.568 | |
| DRO >C10-C28* | 25.7 | 10.0 | 05/06/2019 | ND | 213 | 107 | 200 | 0.223 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 96.8 % 41-142

Surrogate: 1-Chlorooctadecane 89.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

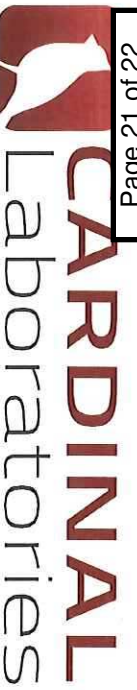
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

| | | |
|---|--|----------------------------|
| Company Name: <u>JPL</u> | | P.O. #: |
| Project Manager: <u>Jared Stoffer</u> | | Company: <u>COG</u> |
| Address: <u>10 Vista Dr STE 150E</u> | | Attn: <u>Bucky Haskell</u> |
| City: <u>Midvale</u> State: <u>TX</u> Zip: <u>79705</u> | | Address: |
| Phone #: <u>(432) 738-3003</u> Fax #: <u>—</u> | | City: |
| Project #: <u>—</u> Project Owner: <u>COG</u> | | State: |
| Project Name: <u>Carmen Federal</u> | | Zip: |
| Project Location: <u>Love Hills, NM</u> | | Phone #: |
| Sampler Name: <u>Jared Stoffer</u> | | Fax #: |

FOR LAB USE ONLY

| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Lab I.D. | | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | PRESERV. | SAMPLING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | ACID/BASE: | ICE / COOL | OTHER : | DATE | TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H901002 | | 1 | AS-FL-1-4.5 | C | 1 | | | | | | | | 5/3/14 | 0820 | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | </ |

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 5/3/14

Received By:

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

REMARKS:

Relinquished By:

Date: 1000

Received By:

REMARKS:

Delivered By: (Circle One)

Sample Condition

CHECKED BY:

Sampler - UPS - Bus - Other:

Cool Intact

CHECKED BY:

2.40 #97☐ Yes ☐ NoTP

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

| | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Company Name: TRC | | BILL TO | | ANALYSIS REQUEST | | | | | | | | | | | |
| Project Manager: Jared Stoffel | | P.O. #: | | | | | | | | | | | | | |
| Address: 10 Deth Dr STE 150E | | Company: COLS | | | | | | | | | | | | | |
| City: Midland | | Attn: Bucky Haskell | | | | | | | | | | | | | |
| State: TX Zip: 79705 | | Address: | | | | | | | | | | | | | |
| Phone #: (432) 238-3003 Fax #: - | | City: | | | | | | | | | | | | | |
| Project #: - Project Owner: COG | | State: | | | | | | | | | | | | | |
| Project Name: Carmen Federal | | Zip: | | | | | | | | | | | | | |
| Project Location: Loco Hills, NM | | Phone #: | | | | | | | | | | | | | |
| Sampler Name: Jared Stoffel | | Fax #: | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | PRESERV. | | SAMPLING | | | | | | | | | | | |
| Lab I.D. | | MATRIX | | | | | | | | | | | | | |
| Sample I.D. | | GROUNDWATER | | | | | | | | | | | | | |
| | | WASTEWATER | | | | | | | | | | | | | |
| | | SOIL | | | | | | | | | | | | | |
| | | OIL | | | | | | | | | | | | | |
| | | SLUDGE | | | | | | | | | | | | | |
| | | OTHER: | | | | | | | | | | | | | |
| | | ACID/BASE: | | | | | | | | | | | | | |
| | | ICE / COOL | | | | | | | | | | | | | |
| | | OTHER: | | | | | | | | | | | | | |
| | | DATE | | TIME | | | | | | | | | | | |
| #901402 | | 5/3/14 | | 0700 | | | | | | | | | | | |
| 11 AG-FL-1-1.5 | | X | | X | | | | | | | | | | | |
| 12 AG-FL-2-1.5 | | X | | X | | | | | | | | | | | |
| 13 AG-FL-3-1.5 | | X | | X | | | | | | | | | | | |
| 14 AG-FL-4-1.5 | | X | | X | | | | | | | | | | | |
| 15 AG-SW-1-0.75 | | X | | X | | | | | | | | | | | |
| 16 AG-SW-2-0.75 | | X | | X | | | | | | | | | | | |
| 17 AG-SW-3-0.75 | | X | | X | | | | | | | | | | | |
| 18 AG-SW-4-0.75 | | X | | X | | | | | | | | | | | |
| X2 | | X | | X | | | | | | | | | | | |
| PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. | | Relinquished By: [Signature] Date: 5/3/14 Received By: [Signature] | | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: [Blank] | | | | | | | | | | | |
| Relinquished By: [Signature] Date: 5/3/14 Received By: [Signature] | | Time: 1000 | | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: [Blank] | | | | | | | | | | | |
| Delivered By: (Circle One) 2.46 #97 | | Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No | | CHECKED BY: [Signature] | | | | | | | | | | | |
| Sampler - UPS - Bus - Other: | | No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No | | REMARKS: [Blank] | | | | | | | | | | | |



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

May 20, 2019

JARED STOFFEL

TRC

10 DESTA DR. SUITE 150 E

MIDLAND, TX 79705

RE: CARMEN FED #1

Enclosed are the results of analyses for samples received by the laboratory on 05/13/19 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/13/2019
Reported: 05/20/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/13/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A4 - SW - 1-2.25 R (H901721-01)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/15/2019 | ND | 1.80 | 90.2 | 2.00 | 0.253 | |
| Toluene* | <0.050 | 0.050 | 05/15/2019 | ND | 1.98 | 99.2 | 2.00 | 1.15 | |
| Ethylbenzene* | 0.075 | 0.050 | 05/15/2019 | ND | 2.00 | 100 | 2.00 | 2.59 | |
| Total Xylenes* | <0.150 | 0.150 | 05/15/2019 | ND | 6.45 | 107 | 6.00 | 2.57 | |
| Total BTEX | <0.300 | 0.300 | 05/15/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/15/2019 | ND | 210 | 105 | 200 | 1.14 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/15/2019 | ND | 213 | 106 | 200 | 2.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/15/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/13/2019
Reported: 05/20/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/13/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A5 - SW - 1-1 R (H901721-02)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/15/2019 | ND | 1.80 | 90.2 | 2.00 | 0.253 | | |
| Toluene* | <0.050 | 0.050 | 05/15/2019 | ND | 1.98 | 99.2 | 2.00 | 1.15 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/15/2019 | ND | 2.00 | 100 | 2.00 | 2.59 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/15/2019 | ND | 6.45 | 107 | 6.00 | 2.57 | | |
| Total BTEX | <0.300 | 0.300 | 05/15/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/15/2019 | ND | 210 | 105 | 200 | 1.14 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/15/2019 | ND | 213 | 106 | 200 | 2.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/15/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.5 % 41-142

Surrogate: 1-Chlorooctadecane 83.2 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

| | |
|-----|--|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

[illegible]

May 24, 2019

JARED STOFFEL

TRC

10 DESTA DR. SUITE 150 E

MIDLAND, TX 79705

RE: CARMEN FED #1

Enclosed are the results of analyses for samples received by the laboratory on 05/20/19 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/20/2019
Reported: 05/24/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/20/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A6 - FL - 1-4 (H901804-01)

| BTEX 8021B | | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/21/2019 | ND | 1.59 | 79.3 | 2.00 | 7.78 | | |
| Toluene* | <0.050 | 0.050 | 05/21/2019 | ND | 1.72 | 85.8 | 2.00 | 7.14 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/21/2019 | ND | 1.64 | 82.1 | 2.00 | 6.86 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/21/2019 | ND | 4.95 | 82.4 | 6.00 | 6.83 | | |
| Total BTEX | <0.300 | 0.300 | 05/21/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/21/2019 | ND | 188 | 94.0 | 200 | 6.52 | |
| DRO >C10-C28* | 87.9 | 10.0 | 05/21/2019 | ND | 224 | 112 | 200 | 8.64 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/21/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.8 % 41-142

Surrogate: 1-Chlorooctadecane 91.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/20/2019
Reported: 05/24/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/20/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A6 - FL - 2-4 (H901804-02)

| BTEX 8021B | | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/21/2019 | ND | 1.59 | 79.3 | 2.00 | 7.78 | | |
| Toluene* | <0.050 | 0.050 | 05/21/2019 | ND | 1.72 | 85.8 | 2.00 | 7.14 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/21/2019 | ND | 1.64 | 82.1 | 2.00 | 6.86 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/21/2019 | ND | 4.95 | 82.4 | 6.00 | 6.83 | | |
| Total BTEX | <0.300 | 0.300 | 05/21/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 05/24/2019 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/21/2019 | ND | 188 | 94.0 | 200 | 6.52 | |
| DRO >C10-C28* | 71.9 | 10.0 | 05/21/2019 | ND | 224 | 112 | 200 | 8.64 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/21/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.9 % 41-142

Surrogate: 1-Chlorooctadecane 90.2 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRC
 JARED STOFFEL
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

 Received: 05/20/2019
 Reported: 05/24/2019
 Project Name: CARMEN FED #1
 Project Number: NONE GIVEN
 Project Location: COG-LOCO HILLS, NM

 Sampling Date: 05/20/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A6 - FL - 3-4 (H901804-03)

| BTEx 8021B | | mg/kg | | Analyzed By: ms | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/21/2019 | ND | 1.59 | 79.3 | 2.00 | 7.78 | | |
| Toluene* | <0.050 | 0.050 | 05/21/2019 | ND | 1.72 | 85.8 | 2.00 | 7.14 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/21/2019 | ND | 1.64 | 82.1 | 2.00 | 6.86 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/21/2019 | ND | 4.95 | 82.4 | 6.00 | 6.83 | | |
| Total BTEX | <0.300 | 0.300 | 05/21/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/21/2019 | ND | 188 | 94.0 | 200 | 6.52 | |
| DRO >C10-C28* | 139 | 10.0 | 05/21/2019 | ND | 224 | 112 | 200 | 8.64 | |
| EXT DRO >C28-C36 | 15.0 | 10.0 | 05/21/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 84.1 % 41-142

Surrogate: 1-Chlorooctadecane 93.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRC
 JARED STOFFEL
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

 Received: 05/20/2019
 Reported: 05/24/2019
 Project Name: CARMEN FED #1
 Project Number: NONE GIVEN
 Project Location: COG-LOCO HILLS, NM

 Sampling Date: 05/20/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A6 - FL - 4-4 (H901804-04)

| BTEx 8021B | | mg/kg | | Analyzed By: ms | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/21/2019 | ND | 1.59 | 79.3 | 2.00 | 7.78 | | |
| Toluene* | <0.050 | 0.050 | 05/21/2019 | ND | 1.72 | 85.8 | 2.00 | 7.14 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/21/2019 | ND | 1.64 | 82.1 | 2.00 | 6.86 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/21/2019 | ND | 4.95 | 82.4 | 6.00 | 6.83 | | |
| Total BTEX | <0.300 | 0.300 | 05/21/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/22/2019 | ND | 190 | 95.2 | 200 | 8.64 | |
| DRO >C10-C28* | 20.7 | 10.0 | 05/22/2019 | ND | 210 | 105 | 200 | 16.0 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/22/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 79.6 % 41-142

Surrogate: 1-Chlorooctadecane 88.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRC
 JARED STOFFEL
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

 Received: 05/20/2019
 Reported: 05/24/2019
 Project Name: CARMEN FED #1
 Project Number: NONE GIVEN
 Project Location: COG-LOCO HILLS, NM

 Sampling Date: 05/20/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A6 - SW - 1B-2 (H901804-05)

| BTEx 8021B | | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/21/2019 | ND | 1.59 | 79.3 | 2.00 | 7.78 | | |
| Toluene* | <0.050 | 0.050 | 05/21/2019 | ND | 1.72 | 85.8 | 2.00 | 7.14 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/21/2019 | ND | 1.64 | 82.1 | 2.00 | 6.86 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/21/2019 | ND | 4.95 | 82.4 | 6.00 | 6.83 | | |
| Total BTEx | <0.300 | 0.300 | 05/21/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 73.3-129

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 05/24/2019 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/22/2019 | ND | 190 | 95.2 | 200 | 8.64 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/22/2019 | ND | 210 | 105 | 200 | 16.0 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/22/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 96.7 % 37.6-147

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

| | |
|-------|---|
| QR-02 | The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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Celey D. Keene, Lab Director/Quality Manager

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

[illegible]

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| | | | | |
|------------------------------|--|--------------|------------------------|--|
| Relinquished By: | Date: 5-20-19 | Received By: | J. Herrera | |
| | Time: 12:00 | | | |
| Relinquished By: | Date: | Received By: | | |
| | Time: | | | |
| Delivered By: (Circle One) | Sample Condition | | CHECKED BY: (Initials) | |
| Sampler - UPS - Bus - Other: | Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> | | | |
| | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | | |
| | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | | | |
| 4.8°C #97 | | | ✓ | |
| REMARKS: | | | | |
| J56FE1@TRCcompanies.com | | | | |
| Baeper " | | | | |
| Ryskell @c oncho. com | | | | |
| Iturarez " | | | | |
| Absent " | | | | |

May 31, 2019

JARED STOFFEL

TRC

10 DESTA DR. SUITE 150 E

MIDLAND, TX 79705

RE: CARMEN FED #1

Enclosed are the results of analyses for samples received by the laboratory on 05/22/19 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/22/2019
Reported: 05/31/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/22/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: A3 - FL - 1-0.75 (H901848-01)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/29/2019 | ND | 1.90 | 94.8 | 2.00 | 2.24 | | |
| Toluene* | <0.050 | 0.050 | 05/29/2019 | ND | 2.06 | 103 | 2.00 | 1.93 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/29/2019 | ND | 1.98 | 98.9 | 2.00 | 0.752 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/29/2019 | ND | 6.06 | 101 | 6.00 | 0.0359 | | |
| Total BTEX | <0.300 | 0.300 | 05/29/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 160 | 16.0 | 05/30/2019 | ND | 400 | 100 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/24/2019 | ND | 197 | 98.7 | 200 | 4.60 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/24/2019 | ND | 199 | 99.3 | 200 | 9.33 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/24/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 93.1 % 41-142

Surrogate: 1-Chlorooctadecane 96.4 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

| | |
|-------|---|
| QR-03 | The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. |
| 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 |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

4. Get things to help from field.



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

May 31, 2019

JARED STOFFEL

TRC

10 DESTA DR. SUITE 150 E

MIDLAND, TX 79705

RE: CARMEN FED #1

Enclosed are the results of analyses for samples received by the laboratory on 05/23/19 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/23/2019
Reported: 05/31/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/23/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A2 - FL - 1-0.25 (H901856-01)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/29/2019 | ND | 1.90 | 94.8 | 2.00 | 2.24 | | |
| Toluene* | <0.050 | 0.050 | 05/29/2019 | ND | 2.06 | 103 | 2.00 | 1.93 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/29/2019 | ND | 1.98 | 98.9 | 2.00 | 0.752 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/29/2019 | ND | 6.06 | 101 | 6.00 | 0.0359 | | |
| Total BTEX | <0.300 | 0.300 | 05/29/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 48.0 | 16.0 | 05/30/2019 | ND | 400 | 100 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/24/2019 | ND | 197 | 98.7 | 200 | 4.60 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/24/2019 | ND | 199 | 99.3 | 200 | 9.33 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/24/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 98.0 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/23/2019
Reported: 05/31/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/23/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A2 - FL - 2-0.25 (H901856-02)

| BTX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/29/2019 | ND | 1.90 | 94.8 | 2.00 | 2.24 | |
| Toluene* | <0.050 | 0.050 | 05/29/2019 | ND | 2.06 | 103 | 2.00 | 1.93 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/29/2019 | ND | 1.98 | 98.9 | 2.00 | 0.752 | |
| Total Xylenes* | <0.150 | 0.150 | 05/29/2019 | ND | 6.06 | 101 | 6.00 | 0.0359 | |
| Total BTX | <0.300 | 0.300 | 05/29/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 73.3-129

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 96.0 | 16.0 | 05/30/2019 | ND | 400 | 100 | 400 | 3.92 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/24/2019 | ND | 197 | 98.7 | 200 | 4.60 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/24/2019 | ND | 199 | 99.3 | 200 | 9.33 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/24/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.4 % 41-142

Surrogate: 1-Chlorooctadecane 88.9 % 37.6-147

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRC
 JARED STOFFEL
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

 Received: 05/23/2019
 Reported: 05/31/2019
 Project Name: CARMEN FED #1
 Project Number: NONE GIVEN
 Project Location: COG-LOCO HILLS, NM

 Sampling Date: 05/23/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A2 - SW - 1-0.1 (H901856-03)

| BTX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/29/2019 | ND | 1.90 | 94.8 | 2.00 | 2.24 | |
| Toluene* | <0.050 | 0.050 | 05/29/2019 | ND | 2.06 | 103 | 2.00 | 1.93 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/29/2019 | ND | 1.98 | 98.9 | 2.00 | 0.752 | |
| Total Xylenes* | <0.150 | 0.150 | 05/29/2019 | ND | 6.06 | 101 | 6.00 | 0.0359 | |
| Total BTX | <0.300 | 0.300 | 05/29/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 73.3-129

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 05/30/2019 | ND | 400 | 100 | 400 | 3.92 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/24/2019 | ND | 197 | 98.7 | 200 | 4.60 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/24/2019 | ND | 199 | 99.3 | 200 | 9.33 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/24/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/23/2019
Reported: 05/31/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/23/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A2 - SW - 3-0.1 (H901856-04)

| BTEx 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/29/2019 | ND | 1.98 | 98.8 | 2.00 | 4.49 | |
| Toluene* | <0.050 | 0.050 | 05/29/2019 | ND | 2.14 | 107 | 2.00 | 4.44 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/29/2019 | ND | 2.00 | 100 | 2.00 | 3.13 | |
| Total Xylenes* | <0.150 | 0.150 | 05/29/2019 | ND | 6.10 | 102 | 6.00 | 3.57 | |
| Total BTEx | <0.300 | 0.300 | 05/29/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 96.0 | 16.0 | 05/30/2019 | ND | 400 | 100 | 400 | 3.92 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/24/2019 | ND | 197 | 98.7 | 200 | 4.60 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/24/2019 | ND | 199 | 99.3 | 200 | 9.33 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/24/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

| | |
|-------|---|
| QR-03 | The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. |
| 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 |

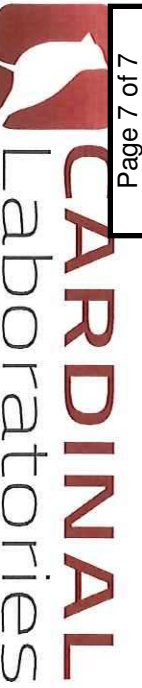
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

| | | |
|---|--|----------------------------|
| Company Name: <u>TRC</u> | | P.O. #: |
| Project Manager: <u>Jared Stetel</u> | | Company: <u>COG</u> |
| Address: <u>10 West Dr. STE 150 E</u> | | Attn: <u>Betsy Hestell</u> |
| City: <u>Midland</u> State: <u>TX</u> Zip: <u>71705</u> | | Address: |
| Phone #: <u>432-738-3000</u> Fax #: | | City: |
| Project #: <u>COG</u> | | State: |
| Project Name: <u>Green Federal</u> | | Zip: |
| Project Location: <u>Loeo H.115, NM</u> | | Phone #: |
| Sampler Name: <u>Brian Cooper</u> | | Fax #: |

| FOR LAB USE ONLY | | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | PRESERV. | SAMPLING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | ACID/BASE: | ICE / COOL | OTHER : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | | | |
|--|--|--|---|
| Relinquished By: <u>Jared Stetel</u> | Date: <u>5-23-19</u> | Received By: <u>Jamara Chabot</u> | Date: <u>10:15</u> |
| Relinquished By: <u>Jamara Chabot</u> | Date: <u>10:15</u> | Received By: <u>Jamara Chabot</u> | Date: <u>10:15</u> |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>1.80 #99</u> | Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | CHECKED BY: (Initials) <u>JS</u> | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> REMARKS: <u>330101 @ TEL companies</u> <u>Booger " "</u> <u>RHaskell @ concho.com</u> <u>Travarez " "</u> <u>Agarant " "</u> |

June 04, 2019

JARED STOFFEL

TRC

10 DESTA DR. SUITE 150 E

MIDLAND, TX 79705

RE: CARMEN FED #1

Enclosed are the results of analyses for samples received by the laboratory on 05/30/19 9:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/30/2019
Reported: 06/04/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A2 - FL - 3-0.25 (H901901-01)

| BTEX 8021B | | mg/kg | Analyzed By: ms | | | | | S-04 | |
|-----------------------|--------------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/04/2019 | ND | 1.90 | 95.0 | 2.00 | 2.08 | |
| Toluene* | 0.072 | 0.050 | 06/04/2019 | ND | 2.05 | 103 | 2.00 | 4.89 | |
| Ethylbenzene* | 2.25 | 0.050 | 06/04/2019 | ND | 1.95 | 97.5 | 2.00 | 3.06 | |
| Total Xylenes* | 5.79 | 0.150 | 06/04/2019 | ND | 5.92 | 98.6 | 6.00 | 2.92 | |
| Total BTEX | 8.12 | 0.300 | 06/04/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 153 % 73.3-129

| TPH 8015M | | mg/kg | Analyzed By: MS | | | | | S-06 | |
|----------------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <50.0 | 50.0 | 05/31/2019 | ND | 189 | 94.6 | 200 | 0.199 | |
| DRO >C10-C28* | 3270 | 50.0 | 05/31/2019 | ND | 189 | 94.7 | 200 | 4.09 | |
| EXT DRO >C28-C36 | 175 | 50.0 | 05/31/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 174 % 41-142

Surrogate: 1-Chlorooctadecane 183 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/30/2019
Reported: 06/04/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A2 - FL - 4-0.25 (H901901-02)

| BTEx 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|-----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.90 | 95.0 | 2.00 | 2.08 | |
| Toluene* | <0.050 | 0.050 | 06/01/2019 | ND | 2.05 | 103 | 2.00 | 4.89 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.95 | 97.5 | 2.00 | 3.06 | |
| Total Xylenes* | 0.181 | 0.150 | 06/01/2019 | ND | 5.92 | 98.6 | 6.00 | 2.92 | |
| Total BTEX | <0.300 | 0.300 | 06/01/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 06/03/2019 | ND | 416 | 104 | 400 | 3.92 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/31/2019 | ND | 189 | 94.6 | 200 | 0.199 | |
| DRO >C10-C28* | 317 | 10.0 | 05/31/2019 | ND | 189 | 94.7 | 200 | 4.09 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/31/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 91.6 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRC
 JARED STOFFEL
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

 Received: 05/30/2019
 Reported: 06/04/2019
 Project Name: CARMEN FED #1
 Project Number: NONE GIVEN
 Project Location: COG-LOCO HILLS, NM

 Sampling Date: 05/29/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A2 - SW - 2-0.1 (H901901-03)

| BTX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.90 | 95.0 | 2.00 | 2.08 | |
| Toluene* | <0.050 | 0.050 | 06/01/2019 | ND | 2.05 | 103 | 2.00 | 4.89 | |
| Ethylbenzene* | 0.193 | 0.050 | 06/01/2019 | ND | 1.95 | 97.5 | 2.00 | 3.06 | |
| Total Xylenes* | 0.516 | 0.150 | 06/01/2019 | ND | 5.92 | 98.6 | 6.00 | 2.92 | |
| Total BTX | 0.708 | 0.300 | 06/01/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

| TPH 8015M | | mg/kg | Analyzed By: MS | | | | | | |
|------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/31/2019 | ND | 189 | 94.6 | 200 | 0.199 | |
| DRO >C10-C28* | 1290 | 10.0 | 05/31/2019 | ND | 189 | 94.7 | 200 | 4.09 | |
| EXT DRO >C28-C36 | 242 | 10.0 | 05/31/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 111 % 41-142

Surrogate: 1-Chlorooctadecane 136 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRC
 JARED STOFFEL
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

 Received: 05/30/2019
 Reported: 06/04/2019
 Project Name: CARMEN FED #1
 Project Number: NONE GIVEN
 Project Location: COG-LOCO HILLS, NM

 Sampling Date: 05/29/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A1 - SW - 1-0.5 (H901901-04)

| BTEx 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.90 | 95.0 | 2.00 | 2.08 | |
| Toluene* | <0.050 | 0.050 | 06/01/2019 | ND | 2.05 | 103 | 2.00 | 4.89 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.95 | 97.5 | 2.00 | 3.06 | |
| Total Xylenes* | <0.150 | 0.150 | 06/01/2019 | ND | 5.92 | 98.6 | 6.00 | 2.92 | |
| Total BTEX | <0.300 | 0.300 | 06/01/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 05/31/2019 | ND | 189 | 94.6 | 200 | 0.199 | | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/31/2019 | ND | 189 | 94.7 | 200 | 4.09 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/31/2019 | ND | | | | | | |

Surrogate: 1-Chlorooctane 85.0 % 41-142

Surrogate: 1-Chlorooctadecane 86.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/30/2019
Reported: 06/04/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A1 - SW - 2-0.35 (H901901-05)

| BTEx 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.86 | 93.2 | 2.00 | 1.28 | |
| Toluene* | 0.053 | 0.050 | 06/01/2019 | ND | 1.98 | 99.0 | 2.00 | 0.494 | |
| Ethylbenzene* | 0.401 | 0.050 | 06/01/2019 | ND | 1.92 | 95.8 | 2.00 | 0.881 | |
| Total Xylenes* | 1.45 | 0.150 | 06/01/2019 | ND | 5.83 | 97.2 | 6.00 | 0.752 | |
| Total BTEX | 1.90 | 0.300 | 06/01/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 33.9 | 10.0 | 05/31/2019 | ND | 189 | 94.6 | 200 | 0.199 | |
| DRO >C10-C28* | 1280 | 10.0 | 05/31/2019 | ND | 189 | 94.7 | 200 | 4.09 | |
| EXT DRO >C28-C36 | 160 | 10.0 | 05/31/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRC
 JARED STOFFEL
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

 Received: 05/30/2019
 Reported: 06/04/2019
 Project Name: CARMEN FED #1
 Project Number: NONE GIVEN
 Project Location: COG-LOCO HILLS, NM

 Sampling Date: 05/29/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A1 - SW - 3-0.35 (H901901-06)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.86 | 93.2 | 2.00 | 1.28 | |
| Toluene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.98 | 99.0 | 2.00 | 0.494 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.92 | 95.8 | 2.00 | 0.881 | |
| Total Xylenes* | <0.150 | 0.150 | 06/01/2019 | ND | 5.83 | 97.2 | 6.00 | 0.752 | |
| Total BTEX | <0.300 | 0.300 | 06/01/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/31/2019 | ND | 189 | 94.6 | 200 | 0.199 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/31/2019 | ND | 189 | 94.7 | 200 | 4.09 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/31/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 85.0 % 41-142

Surrogate: 1-Chlorooctadecane 85.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/30/2019
Reported: 06/04/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A1 - FL - 1-0.75 (H901901-07)

| BTEx 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.86 | 93.2 | 2.00 | 1.28 | |
| Toluene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.98 | 99.0 | 2.00 | 0.494 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.92 | 95.8 | 2.00 | 0.881 | |
| Total Xylenes* | <0.150 | 0.150 | 06/01/2019 | ND | 5.83 | 97.2 | 6.00 | 0.752 | |
| Total BTEx | <0.300 | 0.300 | 06/01/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/31/2019 | ND | 189 | 94.6 | 200 | 0.199 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/31/2019 | ND | 189 | 94.7 | 200 | 4.09 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/31/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 87.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/30/2019
Reported: 06/04/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A1 - FL - 2-0.5 (H901901-08)

| BTEx 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.86 | 93.2 | 2.00 | 1.28 | |
| Toluene* | 0.242 | 0.050 | 06/01/2019 | ND | 1.98 | 99.0 | 2.00 | 0.494 | |
| Ethylbenzene* | 1.19 | 0.050 | 06/01/2019 | ND | 1.92 | 95.8 | 2.00 | 0.881 | |
| Total Xylenes* | 2.48 | 0.150 | 06/01/2019 | ND | 5.83 | 97.2 | 6.00 | 0.752 | |
| Total BTEX | 3.91 | 0.300 | 06/01/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 288 | 16.0 | 06/03/2019 | ND | 416 | 104 | 400 | 3.92 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/31/2019 | ND | 189 | 94.6 | 200 | 0.199 | |
| DRO >C10-C28* | 1090 | 10.0 | 05/31/2019 | ND | 189 | 94.7 | 200 | 4.09 | |
| EXT DRO >C28-C36 | 154 | 10.0 | 05/31/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 123 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/30/2019
Reported: 06/04/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A1 - FL - 3-0.75 (H901901-09)

| BTX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.86 | 93.2 | 2.00 | 1.28 | |
| Toluene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.98 | 99.0 | 2.00 | 0.494 | |
| Ethylbenzene* | 0.052 | 0.050 | 06/01/2019 | ND | 1.92 | 95.8 | 2.00 | 0.881 | |
| Total Xylenes* | <0.150 | 0.150 | 06/01/2019 | ND | 5.83 | 97.2 | 6.00 | 0.752 | |
| Total BTX | <0.300 | 0.300 | 06/01/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|-------------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/31/2019 | ND | 189 | 94.6 | 200 | 0.199 | |
| DRO >C10-C28* | 308 | 10.0 | 05/31/2019 | ND | 189 | 94.7 | 200 | 4.09 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/31/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.6 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRC
 JARED STOFFEL
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

 Received: 05/30/2019
 Reported: 06/04/2019
 Project Name: CARMEN FED #1
 Project Number: NONE GIVEN
 Project Location: COG-LOCO HILLS, NM

 Sampling Date: 05/29/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A1 - FL - 4-0.5 (H901901-10)

| BTEx 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.86 | 93.2 | 2.00 | 1.28 | |
| Toluene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.98 | 99.0 | 2.00 | 0.494 | |
| Ethylbenzene* | 0.115 | 0.050 | 06/01/2019 | ND | 1.92 | 95.8 | 2.00 | 0.881 | |
| Total Xylenes* | 0.310 | 0.150 | 06/01/2019 | ND | 5.83 | 97.2 | 6.00 | 0.752 | |
| Total BTEX | 0.425 | 0.300 | 06/01/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/31/2019 | ND | 189 | 94.6 | 200 | 0.199 | |
| DRO >C10-C28* | 855 | 10.0 | 05/31/2019 | ND | 189 | 94.7 | 200 | 4.09 | |
| EXT DRO >C28-C36 | 132 | 10.0 | 05/31/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.2 % 41-142

Surrogate: 1-Chlorooctadecane 124 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/30/2019
Reported: 06/04/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A1 - FL - 5-0.5 (H901901-11)

| BTEx 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.86 | 93.2 | 2.00 | 1.28 | |
| Toluene* | 0.152 | 0.050 | 06/01/2019 | ND | 1.98 | 99.0 | 2.00 | 0.494 | |
| Ethylbenzene* | 0.690 | 0.050 | 06/01/2019 | ND | 1.92 | 95.8 | 2.00 | 0.881 | |
| Total Xylenes* | 1.54 | 0.150 | 06/01/2019 | ND | 5.83 | 97.2 | 6.00 | 0.752 | |
| Total BTEX | 2.38 | 0.300 | 06/01/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 96.0 | 16.0 | 06/03/2019 | ND | 416 | 104 | 400 | 3.92 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 33.1 | 10.0 | 06/01/2019 | ND | 189 | 94.6 | 200 | 0.199 | |
| DRO >C10-C28* | 669 | 10.0 | 06/01/2019 | ND | 189 | 94.7 | 200 | 4.09 | |
| EXT DRO >C28-C36 | 51.8 | 10.0 | 06/01/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 05/30/2019
Reported: 06/04/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 05/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A1 - FL - 6-1.0 (H901901-12)

| BTEx 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.86 | 93.2 | 2.00 | 1.28 | |
| Toluene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.98 | 99.0 | 2.00 | 0.494 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/01/2019 | ND | 1.92 | 95.8 | 2.00 | 0.881 | |
| Total Xylenes* | <0.150 | 0.150 | 06/01/2019 | ND | 5.83 | 97.2 | 6.00 | 0.752 | |
| Total BTEx | <0.300 | 0.300 | 06/01/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/01/2019 | ND | 189 | 94.6 | 200 | 0.199 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/01/2019 | ND | 189 | 94.7 | 200 | 4.09 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/01/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.2 % 41-142

Surrogate: 1-Chlorooctadecane 88.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

| | |
|------|--|
| S-06 | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's. |
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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Celey D. Keene, Lab Director/Quality Manager

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

+ Cardinal nuncio Michael Anthony Dineen for invitation announced to /ETI/ 202 2222

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

[illegible]

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| | | | | | | |
|------------------------------|---------|--|---------------|------------------------------|-----------------------------|----------------|
| Relinquished By: | Date: | Received By: | Phone Result: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | Add'l Phone #: |
| <i>[Signature]</i> | 5/30/15 | <i>[Signature]</i> | Fax Result: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | Add'l Fax #: |
| Relinquished By: | Time: | | REMARKS: | | | |
| | Date: | Received By: | | | | |
| | Time: | | | | | |
| Delivered By: (Circle One) | | Sample Condition | CHECKED BY: | | | |
| Sampler - UPS - Bus - Other: | | Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> | (Initials) | | | |
| | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | |
| | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | |

June 07, 2019

JARED STOFFEL

TRC

10 DESTA DR. SUITE 150 E

MIDLAND, TX 79705

RE: CARMEN FED #1

Enclosed are the results of analyses for samples received by the laboratory on 06/06/19 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 TRC
 JARED STOFFEL
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

 Received: 06/06/2019
 Reported: 06/07/2019
 Project Name: CARMEN FED #1
 Project Number: NONE GIVEN
 Project Location: COG-LOCO HILLS, NM

 Sampling Date: 06/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A2 - SW - 2-0.1R (H901984-01)

| BTEX 8021B | | | mg/kg | | Analyzed By: BF | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/06/2019 | ND | 2.22 | 111 | 2.00 | 7.52 | |
| Toluene* | <0.050 | 0.050 | 06/06/2019 | ND | 1.98 | 98.9 | 2.00 | 7.60 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/06/2019 | ND | 1.91 | 95.3 | 2.00 | 6.55 | |
| Total Xylenes* | <0.150 | 0.150 | 06/06/2019 | ND | 5.71 | 95.2 | 6.00 | 5.36 | |
| Total BTEX | <0.300 | 0.300 | 06/06/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 124 % 73.3-129

| TPH 8015M | | | mg/kg | | Analyzed By: MS | | | | |
|------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/06/2019 | ND | 186 | 93.2 | 200 | 6.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/06/2019 | ND | 246 | 123 | 200 | 5.05 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.1 % 41-142

Surrogate: 1-Chlorooctadecane 94.1 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 06/06/2019
Reported: 06/07/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 06/06/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A1 - SW - 2-0.35R (H901984-02)

| BTEX 8021B | | mg/kg | | Analyzed By: BF | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/06/2019 | ND | 2.22 | 111 | 2.00 | 7.52 | |
| Toluene* | <0.050 | 0.050 | 06/06/2019 | ND | 1.98 | 98.9 | 2.00 | 7.60 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/06/2019 | ND | 1.91 | 95.3 | 2.00 | 6.55 | |
| Total Xylenes* | <0.150 | 0.150 | 06/06/2019 | ND | 5.71 | 95.2 | 6.00 | 5.36 | |
| Total BTEX | <0.300 | 0.300 | 06/06/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/06/2019 | ND | 186 | 93.2 | 200 | 6.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/06/2019 | ND | 246 | 123 | 200 | 5.05 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.5 % 41-142

Surrogate: 1-Chlorooctadecane 94.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRC
JARED STOFFEL
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received: 06/06/2019
Reported: 06/07/2019
Project Name: CARMEN FED #1
Project Number: NONE GIVEN
Project Location: COG-LOCO HILLS, NM

Sampling Date: 06/06/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: A1 - FL - 2-0.75 (H901984-03)

| BTX 8021B | | mg/kg | | Analyzed By: BF | | | | S-04 | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/06/2019 | ND | 2.22 | 111 | 2.00 | 7.52 | | |
| Toluene* | <0.050 | 0.050 | 06/06/2019 | ND | 1.98 | 98.9 | 2.00 | 7.60 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/06/2019 | ND | 1.91 | 95.3 | 2.00 | 6.55 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/06/2019 | ND | 5.71 | 95.2 | 6.00 | 5.36 | | |
| Total BTX | <0.300 | 0.300 | 06/06/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 165 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|-------------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 06/06/2019 | ND | 186 | 93.2 | 200 | 6.21 | | |
| DRO >C10-C28* | 132 | 10.0 | 06/06/2019 | ND | 246 | 123 | 200 | 5.05 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/06/2019 | ND | | | | | | |

Surrogate: 1-Chlorooctane 86.6 % 41-142

Surrogate: 1-Chlorooctadecane 98.0 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRC
 JARED STOFFEL
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

 Received: 06/06/2019
 Reported: 06/07/2019
 Project Name: CARMEN FED #1
 Project Number: NONE GIVEN
 Project Location: COG-LOCO HILLS, NM

 Sampling Date: 06/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A2 - FL - 3-0.5 (H901984-04)

| BTEx 8021B | | mg/kg | | Analyzed By: BF | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/06/2019 | ND | 2.22 | 111 | 2.00 | 7.52 | | |
| Toluene* | <0.050 | 0.050 | 06/06/2019 | ND | 1.98 | 98.9 | 2.00 | 7.60 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/06/2019 | ND | 1.91 | 95.3 | 2.00 | 6.55 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/06/2019 | ND | 5.71 | 95.2 | 6.00 | 5.36 | | |
| Total BTEx | <0.300 | 0.300 | 06/06/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/06/2019 | ND | 186 | 93.2 | 200 | 6.21 | |
| DRO >C10-C28* | 203 | 10.0 | 06/06/2019 | ND | 246 | 123 | 200 | 5.05 | |
| EXT DRO >C28-C36 | 14.0 | 10.0 | 06/06/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

| | |
|-------|---|
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| QR-04 | The RPD for the BS/BSD was outside of historical limits. |
| QR-03 | The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. |
| 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 |

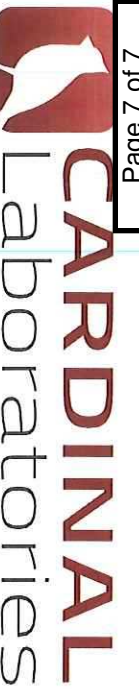
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: JRC

Project Manager: Jane Stoffel

Address: 10 Dista Dr STE 150E

City: Milano State: Tx Zip: 79705

Phone #: (432) 238-3003 Fax #: —

Project #: — Project Owner: COG

Project Name: Carmen Federal

Project Location: Lea Hills, NM

Sampler Name: J. Stoffel

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: COG

Attn: Betsy Haskell

Address:

City:

State: Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

MATRIX

PRESERV.

SAMPLING

Lab I.D.

Sample I.D.

H901984

AC-SW-2-0.1R
2 A1-SW-2-0.35R
3 A1-FL-2-0.75
4 A2-FL-3-0.5

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH (8015)

BTEX (8021B)

TPH (8015)

BTEX (8021B)

TPH (8015)

BTEX (8021B)

TPH (8015)

BTEX (8021B)

TPH (8015)

BTEX (8021B)

TPH (8015)

BTEX (8021B)

TPH (8015)

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TPH (8015)

BTEX (8021B)

TPH (8015)

BTEX (8021B)

TPH (8015)

BTEX (8021B)

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Relinquished By:

Date: 6-6-19

Received By:

Jaylora Clark

Relinquished By:

Date: 6-6-19

Received By:

Jaylora Clark

Relinquished By:

Date: 6-6-19

Received By:

Jaylora Clark

Relinquished By:

Date: 6-6-19

Received By:

Jaylora Clark

Delivered By: (Circle One)

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☒

CHECKED BY: (Initials)

TPH results

Sampler - UPS - Bus - Other:

5.92 #49

TPH results

TPH results

TPH results

Appendix B: Photographic Documentation



Photo 1 - View of excavation in A6 (5/3/19) facing northeast.



Photo 2- View of further excavation in area A6 (5/16/19) facing northeast.



Photo 3 - View of excavated area A5 (5/3/19) facing south.



Photo 4 - View of excavated area A4 (5/3/19) facing east.



Photo 5 - View of excavated area A1 (5/29/19) facing southeast.



Photo 6 - View of further excavation in areas A2 and A1 (6/6/19) facing east.



Photo 7 - View of the remediated areas A1, A2 and A3 facing east (6/6/19).



Photo 8 - View of remediated area A6 (5/17/19) facing southwest.

Appendix C: Release Notification and Corrective Action (Form C-141)

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

| | |
|----------------|---------------|
| Incident ID | NAB1902442612 |
| District RP | 2RP-5198 |
| Facility ID | fAB1902440237 |
| Application ID | pAB1902440356 |

Release Notification

Responsible Party

| | |
|--|--|
| Responsible Party: HollyFrontier Companies LLC** | OGRID# 229137 **278421 |
| Contact Name: Katharine E. Boyer | Contact Telephone: 214-954-6515 |
| Contact email: Katharine.Boyer@HollyFrontier.com | Incident # (assigned by OCD) NAB1902442612 |
| Contact mailing address: 2828 North Hardwood Street, Suite 1300, Dallas, Texas 75201 | |

Location of Release Source

Latitude 32.86436 Longitude -103.96689
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|---|---|
| Site Name: Carmen 3 Federal Com #1H | Site Type: Production Lease Operated by COG |
| Date Release Discovered: 1/7/2018 ** **1/07/2019 According to letter AB | API# (if applicable) 30-015-39286 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|-------------|
| E | 3 | 17S | 30E | Eddy County |

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: Operator _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | |
|---|--|--|
| <input checked="" type="checkbox"/> Crude Oil | Volume Released (bbls) 275 BBLS | Volume Recovered (bbls) Unknown |
| <input type="checkbox"/> Produced Water | Volume Released (bbls) | Volume Recovered (bbls) |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release:

HollyFrontier Companies LLC is submitting this form C-141 on behalf of Transwood Logistics Inc. A Transwood truck driver was loading crude onto his truck at the Concho (COG) production lease, Carmen 3 Federal Com #1H Well, Loco Hills, Eddy County, NM, and spilled approximately 275 barrels of crude onto the ground at the lease and across approximately six miles on Highway 82 and County Road 126. The estimate of 275 barrels includes an unknown volume of crude spilled onto HWY 82 and County Road 126. At this time, the root cause of the spill is unclear since the Transwood truck driver drove his truck to Transwood's truck yard after the spill occurred, parked it in the middle of the night and has disappeared. Transwood is taking the lead on the site characterization and cleanup.

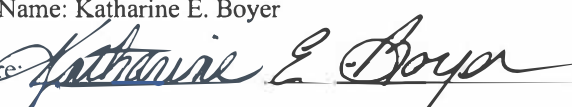

State of New Mexico
Oil Conservation Division

| | |
|----------------|---------------|
| Incident ID | NAB1902442612 |
| District RP | 2RP-5198 |
| Facility ID | fAB1902440237 |
| Application ID | pAB1902440356 |

| | |
|--|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? Yes, it is considered a major spill based on the amount of 275 barrels of crude that was spilled to the ground. |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc.)? It is unclear the details of the call into OCD, since a representative from Concho Resources, INC called in the spill to OCD. | |

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

| | |
|--|---|
| <input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. | |
| If all the actions described above have <u>not</u> been undertaken, explain why: | |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| Printed Name: Katharine E. Boyer Signature:  email: Katharine.Boyer@HollyFrontier.com | Title: EHS Manager Date: January 22, 2019 Telephone: 214-954-6515 |
| OCD Only Received by:  Date: 1/24/2019 | |

| | |
|----------------|--|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

Site Assessment/Characterization

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

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

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

| |
|--|
| <p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"><input type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.<input type="checkbox"/> Field data<input type="checkbox"/> Data table of soil contaminant concentration data<input type="checkbox"/> Depth to water determination<input type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release<input type="checkbox"/> Boring or excavation logs<input type="checkbox"/> Photographs including date and GIS information<input type="checkbox"/> Topographic/Aerial maps<input type="checkbox"/> Laboratory data including chain of custody |
|--|

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

| | |
|----------------|--|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

| | |
|----------------|--|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

Closure

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Appendix D: Depth to Groundwater Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 596622.24

Northing (Y): 3636757.49

Radius: 1610

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.

1/23/19 12:04 PM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

