

Republic Backhoe Service, LLC

47 E. Dickens

Lovington, NM 88260

(575) 631-0131

March 13, 2020

District II

811 S. First St.

Artesia, NM 88210

Subject: Soil Remediation/Closure for the Saragossa 10 State #2, Eddy County, New Mexico

To Whom It May Concern,

On behalf of Read & Stevens, Inc. Republic Backhoe Service, LLC (RBS) has prepared this Soil Remediation/Closure Report associated with Saragossa 10 State #2. The site is located in Unit B, Section 10, Township 23 South, and Range 26 East, NMPM, Eddy County, New Mexico, on NM State land. Attachment #1 and #2 illustrates the vicinity and location of the site. Piedmont alluvial deposits from the Holocene to Pleistocene age make up the subsurface of the area (mrdata.usgs.gov, Attachment #3). The subsurface is comprised of Regan Upton soils which consist of loamy deposits of quaternary age that are moderately dark colored and loamy. Hard caliche is encountered at 3-4 feet below the loamy surface (Soil Survey Eddy Area, NM 1971). The soil is generally dry except in times of rain. The site is not within a 100-year floodplain (FEMA FIRMette Map Attachment #9). The vegetation consists of black grama, blue grama, tobosa, side-oats, bush muhly, tarbush, creosote bush, vine mesquite, and yucca. The state of New Mexico owns the surface and is overseen by the State Land Office and leased out for grazing.

Table 1. below, summarizes information regarding the release. (See Attachments #10, #12, #13)

| Release Details | | | |
|------------------------------------|-----------|--|---------------------------------|
| Type of Release: | Oil/PW | Volume of Release: | 17.24-Oil 140.67-Produced Water |
| | | Volume Recovered: | 2-Oil |
| Source of Release: | Well Head | Date of Discovery: | 10/27/2018 |
| Was Immediate Notice Given? | No | If, YES, to Whom? | |
| Was a Watercourse Reached? | No | If YES, Volume Impacting the Watercourse: | NA |
| Surface Owner: | State | Mineral Owner: | State |

Describe Cause of Problem and Remedial Action Taken:

The release was attributed to a 1" connection at the well head. The connection has since been replaced. A backhoe was called out on the day of the discovery which piled saturated soil on the pad.

Regulatory Guidelines

New Mexico Oil Conversation Division (NMOCD) regulates surface impacts from unauthorized releases of crude oil, gases, produced water, condensate or other oil field waste in accordance with 19.15.29 of the New Mexico Administrative Code (NMAC). In accordance to NMAC 19.15.29 the Saragossa 10 State #2 is assessed by the following guidelines:

| | |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release? | <u>246</u> (ft bgs) |
| Did this release impact groundwater or surface water? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input checked="" 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 checked="" 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 checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production, or storage site? | |
| The release occurred within the following areas and will treat the release as if it occurred less than 50 feet to ground water. | |

*Correction to Site Assessment/ Characterization: Saragossa 10 State #2 is not within a 100-year flood plain. Please see Attachment #9.

A search of a groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average depth to groundwater within 2000 meters and identify registered water wells within 2500 meters of the release site. (Attachments #4, 5). Furthermore, a new NMOSE groundwater search was conducted once the north extent of the spill was found (Attachment #6, 7) and concluded that the horizontal extents of the spill fell within 500 feet of a private domestic fresh water well, and within 1000' of any other fresh water wells. The site will be remediated to the following guidelines:

| Table I Closure Criteria for Soils Impacted by a Release | | | |
|---|-------------------|----------------------------------|-----------|
| Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS | Constituent | Method* | Limit** |
| ≤ 50 feet | Chloride*** | EPA 300.0 or SM4500 Cl B | 600 mg/kg |
| | TPH (GRO+DRO+MRO) | EPA SW-846 Method 8015M | 100 mg/kg |
| | BTEX | EPA SW-846 Method 8021B or 8260B | 50 mg/kg |
| | Benzene | EPA SW-846 Method 8021B or 8260B | 10 mg/kg |

Site Assessment/Delineation

On November 15, 2018, RBS went to the location to delineate the site. According to the Spill Calculations (See Attachment 13) 89% of the release stayed on the well pad. The additional 11% of the release travelled along a compacted cattle path for approximately 825 feet to the north of the location (See Attachment 10). The release poses no threat to ground water as laboratory results conclude that no contamination was found at or below 2' (bgs). Furthermore, soil samples collected and analyzed at 5' (bgs) show constituents level significantly lower than NMOCD permissible levels. A backhoe was used to dig a total of 16 trenches at the site (See Attachment #8). Samples were collected from the surface, 2 feet (bgs), and 5 feet (bgs). The following table summarizes the laboratory analytical results from the soil samples collected during the site assessment:

| Name | Date | Depth | Chlorides | Benezene | BTEX | TPH(DRO,GRO,EXT) | Lithology | Soil Class | Pad/Pasture | Within 1000' FW |
|--------|----------|---------|-----------|----------|--------|-------------------------|-----------|------------|-------------|-----------------|
| Pad1-S | 11/15/18 | Surface | 1180 | <0.500 | 6.73 | 24,969(309,20600,4060) | Sandy | ML | Pad | No |
| Pad1-2 | 11/15/18 | 2 | 32 | | <0.300 | <10.0 | Loam | CL | | |
| Pad1-5 | 11/15/18 | 5 | 144 | | <0.300 | <10.0 | Caliche | | | |
| Pad2-S | 11/15/18 | Surface | 1710 | <0.500 | 1.17 | 13,537(107,11200,2230) | Sandy | ML | Pad | No |
| Pad2-2 | 11/15/18 | 2 | 16 | | <0.300 | <10.0 | Loam | CL | | |
| Pad2-5 | 11/15/18 | 5 | 16 | | <0.300 | 12.4(0,12.4,0) | Caliche | | | |
| Pad3-S | 11/15/18 | Surface | 30,800 | <0.500 | 3.89 | 6,680(130,5370,1180) | Sandy | ML | Pad | No |
| Pad3-2 | 11/15/18 | 2 | 208 | | <0.300 | 18.8(0,0,18.8) | Loam | CL | | |
| Pad3-5 | 11/15/18 | 5 | 48.0 | | <0.300 | <10.0 | Caliche | | | |
| Pad4-S | 11/15/18 | Surface | 4560 | | <0.300 | 73.2(0,62.2,11.0) | Sandy | ML | Pad | No |
| Pad4-2 | 11/15/18 | 2 | 96 | | <0.300 | <10.0 | Loam | CL | | |
| Pad4-5 | 11/15/18 | 5 | 64 | | <0.300 | 53.3(0,38.4,14.9) | Caliche | | | |
| TA1-S | 11/15/18 | Surface | 3200 | <0.500 | 6.09 | 25,257(227,20900,4230) | Sandy | ML | Pasture | No |
| TA1-2 | 11/15/18 | 2 | 64 | | <0.300 | <10.0 | Loam | CL | | |
| TA1-5 | 11/15/18 | 5 | 80 | | <0.300 | <10.0 | Caliche | | | |
| TA2-S | 11/15/18 | Surface | 6960 | <0.500 | 2.64 | 32,924(274,27600,5050) | Sandy | ML | Pasture | Yes |
| TA2-2 | 11/15/18 | 2 | 48 | | <0.300 | <10.0 | Loam | CL | | |
| TA2-5 | 11/15/18 | 5 | 48 | | <0.300 | 12.8 | Caliche | | | |
| TA3-S | 11/15/18 | Surface | 288 | <1.00 | 15.2 | 34,302(642,28600,5060) | Sandy | ML | Pasture | Yes |
| TA3-2 | 11/15/18 | 2 | 48 | | <0.300 | <10.0 | Loam | CL | | |
| TA3-5 | 11/15/18 | 5 | 32 | | <0.300 | <10.0 | Caliche | | | |
| TA4-S | 11/15/18 | Surface | 256 | <0.500 | 16.6 | 32,508(1000,45600,8250) | Sandy | ML | Pasture | Yes |
| TA4-2 | 11/15/18 | 2 | 48 | | <0.300 | <10.00 | Loam | CL | | |
| TA4-5 | 11/15/18 | 5 | 336 | | <0.300 | 11.6 | Caliche | | | |
| TA5-S | 11/15/18 | Surface | 64 | | 16.0 | 54,850 | Sandy | ML | Pasture | Yes |
| TA5-2 | 11/15/18 | 2 | 32 | | <0.300 | <10.0 | Loam | CL | | |
| TA5-5 | 11/15/18 | 5 | 16 | | <0.300 | <10.0 | Caliche | | | |
| TA6-S | 11/15/18 | Surface | 32 | <0.500 | 25.9 | 48,360(1290,40100,6970) | Sandy | ML | Pasture | Yes |
| TA6-2 | 11/15/18 | 2 | 48 | | <0.300 | <10.0 | Loam | CL | | |
| TA6-5 | 11/15/18 | 5 | 80.0 | | <0.300 | <10.00 | Caliche | | | |
| TA7-S | 11/15/18 | Surface | 16 | <0.500 | <0.300 | 4,476(32.3810.634) | Sandy | ML | Pasture | Yes |
| TA7-2 | 11/15/18 | 2 | 96 | | <0.300 | <10.0 | Loam | CL | | |
| TA7-5 | 11/15/18 | 5' | 80 | | <0.300 | 12.3 | Caliche | | | |
| TA8-S | 11/15/18 | Surface | 48 | | <0.300 | 14.8 | Sandy | ML | Pasture | Yes |
| TA8-2 | 11/15/18 | 2 | 32 | | <0.300 | 72.1 | Loam | CL | | |
| TA8-5 | 11/15/18 | 5 | 16 | | <0.300 | 48.7 | Caliche | | | |
| TA9-S | 11/15/18 | Surface | 32 | | <0.300 | 110.5 | Sandy | ML | Pasture | Yes |
| TA9-2 | 11/15/18 | 2 | 64 | | <0.300 | <10.0 | Loam | CL | | |
| TA9-5 | 11/15/18 | 5 | 96 | | <0.300 | <10.0 | Caliche | | | |
| TA10-S | 11/15/18 | Surface | 32 | | <0.300 | 79.2 | Sandy | ML | Pasture | Yes |
| TA10-2 | 11/18/18 | 2 | 32 | | <0.300 | <10.0 | Loam | CL | | |
| TA10-5 | 11/18/18 | 5 | 16 | | <0.300 | <10.0 | Caliche | | | |
| TB1-S | 11/15/18 | Surface | 160 | <0.500 | 4.51 | 35,601(491,29800,5310) | Sandy | ML | Pasture | No |
| TB1-2 | 11/15/18 | 2 | 64 | | <0.300 | <10.0 | Loam | CL | | |
| TB1-5 | 11/15/18 | 5 | 48 | | <0.300 | <10.0 | Caliche | | | |
| TB2-S | 11/15/18 | Surface | 48 | <0.500 | 1.71 | 43,778(398,36300,7080) | Sandy | ML | Pasture | no |
| TB2-2 | 11/15/18 | 2 | 64 | | <0.300 | <10.0 | Loam | CL | | |
| TB2-5 | 11/15/18 | 5 | 32 | | <0.300 | <10.0 | Caliche | | | |

Chlorides-mg/kg, SM4500C1-B

BTEX-mg/kg, 8021B

TPH-mg/kg, 8015M

| Name | Date | Depth (feet) | Chloride | BTEX | TPH(GRO, DRO,EXT) | Lithology | Soil Class | Pad/Pasture | Within 1,000' FW |
|---------|----------|--------------|----------|--------|--------------------------|-----------|------------|-------------|------------------|
| S 1-1 | 08/07/19 | 1 | <16.0 | <0.300 | <10.0 | Loam | CL | Pad | No |
| S 1-12 | 08/07/19 | 12 | 32 | <0.300 | <10.0 | Caliche | GM | | |
| S 2-1 | 08/07/19 | 1 | 48 | <0.300 | <10.0 | Loam | CL | Pad | No |
| S 2-12 | 08/07/19 | 12 | 16 | <0.300 | <10.0 | Caliche | GM | | |
| S 3-1 | 08/07/19 | 1 | <16.0 | <0.300 | <10.0 | Loam | CL | Pad | No |
| S 3-12 | 08/07/19 | 12 | 16 | <0.300 | <10.0 | Caliche | GM | | |
| S 4-1 | 08/07/19 | 1 | 16 | <0.300 | <10.0 | Loam | CL | Pasture | No |
| S 4-12 | 08/07/19 | 12 | 32 | <0.300 | <10.0 | Caliche | GM | | |
| S 5-1 | 08/06/19 | 1 | 16 | <0.300 | <10.0 | Loam | CL | Pasture | Yes |
| S 5-12 | 08/06/19 | 12 | 16 | <0.300 | <10.0 | Caliche | GM | | |
| S 6-1 | 08/06/19 | 1 | 16 | <0.300 | 121.9(<10.0, 77.8, 44.1) | Loam | CL | Pasture | Yes |
| S 6-2 | 08/13/19 | 2 | 16 | <0.300 | <10.0 | Loam | CL | | |
| S 6-12 | 08/06/19 | 12 | 16 | <0.300 | <10.0 | Caliche | GM | | |
| S 7-1 | 08/06/19 | 1 | <16.0 | <0.300 | 223.9(<10.0, 143, 80.9) | Loam | CL | Pasture | Yes |
| S 7-2 | 08/13/20 | 2 | 16 | <0.300 | <10.0 | Loam | CL | | |
| S 7-12 | 08/06/19 | 12 | <16.0 | <0.300 | <10.0 | Caliche | GM | | |
| S 8-1 | 08/06/19 | 1 | <16.0 | <0.300 | <10.0 | Loam | CL | Pasture | Yes |
| S 8-12 | 08/06/19 | 12 | <16.0 | <0.300 | <10.0 | Caliche | GM | | |
| S 9-1 | 08/06/19 | 1 | <16.0 | <0.300 | <10.0 | Loam | CL | Pasture | Yes |
| S 9-12 | 08/06/19 | 12 | <16.0 | <0.300 | <10.0 | Caliche | GM | | |
| S 10-1 | 08/06/19 | 1 | <16.0 | <0.300 | <10.0 | Loam | CL | Pasture | Yes |
| S 10-12 | 08/06/19 | 12 | <16.0 | <0.300 | <10.0 | Caliche | GM | | |
| S 11-1 | 08/06/19 | 1 | <16.0 | <0.300 | <10.0 | Loam | CL | Pasture | Yes |
| S 11-12 | 08/06/19 | 12 | <16.0 | <0.300 | <10.0 | Caliche | GM | | |
| S 12-1 | 08/06/19 | 1 | <16.0 | <0.300 | <10.0 | Loam | CL | Pasture | Yes |
| S 12-12 | 08/06/19 | 12 | <16.0 | <0.300 | <10.0 | Caliche | GM | | |
| S 13-1 | 08/06/19 | 1 | 16 | <0.300 | <10.0 | Loam | CL | Pasture | Yes |
| S 13-12 | 08/06/19 | 12 | 16 | <0.300 | <10.0 | Caliche | GM | | |
| S 14-1 | 08/06/19 | 1 | <16.0 | <0.300 | <10.0 | Loam | CL | Pasture | Yes |
| S 14-12 | 08/06/19 | 12 | <16.0 | <0.300 | <10.0 | Caliche | GM | | |
| S 15-1 | 08/06/19 | 1 | <16.0 | <0.300 | <10.0 | Loam | CL | Pasture | No |
| S 15-12 | 08/06/19 | 12 | <16.0 | <0.300 | <10.0 | Caliche | GM | | |
| S 16-1 | 08/06/19 | 1 | <16.0 | <0.300 | <10.0 | Loam | CL | Pasture | No |
| S 16-12 | 08/06/19 | 12 | <16.0 | <0.300 | <10.0 | Caliche | GM | | |
| S 17-1 | 08/07/19 | 1 | <16.0 | <0.300 | <10.0 | Loam | CL | Pad | No |
| S 17-12 | 08/07/19 | 12 | <16.0 | <0.300 | <10.0 | Caliche | GM | | |
| S 18-1 | 08/07/19 | 1 | 32 | <0.300 | <10.0 | Loam | CL | Pad | No |
| S 18-12 | 08/07/19 | 12 | 16 | <0.300 | 49.8(<10.0, <10.0, 49.8) | Caliche | GM | | |

Chlorides-mg/kg, SM4500Cl-B

BTEX-mg/kg, 8021B

TPH-mg/kg, 8015M

Soil Sample GPS

| Name | GPS | - | Pad/Pasture |
|-------------|------------|--------------|-------------|
| Pad1 & S-17 | 32.325893° | -104.279635° | Pad |
| Pad2 & S-3 | 32.325912° | -104.279899° | Pad |
| Pad3 & S-1 | 32.325669° | -104.279886° | Pad |
| Pad4 & S-2 | 32.325735° | -104.280027° | Pad |
| TA1 & S-4 | 32.326057° | -104.279779° | Pasture |
| TA2 & S-5 | 32.326269° | -104.279642° | Pasture |
| TA3 & S-6 | 32.326468° | -104.279424° | Pasture |
| TA4 & S-7 | 32.326639° | -104.279288° | Pasture |
| TA5 & S-8 | 32.326830° | -104.279179° | Pasture |
| TA6 & S-9 | 32.327019° | -104.279077° | Pasture |
| TA7 & S-10 | 32.327302° | -104.278973° | Pasture |
| TA8 & S-11 | 32.327464° | -104.278845° | Pasture |
| TA9 & S-12 | 32.327622° | -104.278810° | Pasture |
| TA10 & S-13 | 32.327277° | -104.278747° | Pasture |
| TB1 & S-16 | 32.326042° | -104.279616° | Pasture |
| TB2 & S-15 | 32.326172° | -104.279530° | Pasture |
| S-14 | 32.326341° | -104.279446° | Pasture |
| S-18 | 32.325780° | -104.279731° | Pasture |

Remediation/ Closure

Commencement Date: November 15, 2019

Completion Date: March 13, 2020

The following remedial activities are in accordance with 19.15.29.12 NMAC, remediation of releases on oil well pads. The remedial activities took place on the Saragossa 10 State #2 pad and surrounding pasture near the release. The release poses no threat to ground water.

The preliminary site delineation began on November 15, 2018 and concluded that the vertical extent of the release was less than 2' (bgs). A sample at 5' (bgs) further confirms this result. Further sampling concluded that the vertical extent of the spill did not exceed 1' (bgs) in all areas, except for a 180 Sq. Ft. area at sample locations S-6 and S-7. Samples at S-6 and S-7 meet closure criteria at 2' (bgs). Sample points TA8 and TA10 met closure criteria at the surface and no remedial activities were necessary (See Lab Analysis Tables).

Soil remediation began on May 13, 2019. Approximately 7,740 Sq. Ft. was excavated to a depth of 1 foot, totaling 287 cubic yards. The remaining area of 180 Sq. Ft. was excavated to a depth of 2 feet, totaling 13 yards (See Attachment #10). Approximately 300 cubic yards were excavated from the location and hauled to an NMOCD approved disposal site.

The original location size of Saragossa 10 State #2 was approximately 56,470 Sq. Ft. During remedial activities, the North side off the pad was downsized to reclaim land for New Mexico State Land Office. The reclaimed area of the pad measured approximately 22,275 Sq. feet, leaving the current size of the pad 34,195 Sq. feet (See Attachment #11). The reclaimed area was seeded along with the excavated area in the pasture on March 13, 2020.

Soil Samples S-1 through S-18 were completed on August 07, 2019. The excavated areas on the pad and the surrounding pasture of the location were back filled beginning August 26, 2019. Back filling was completed on August 30, 2019.

Revegetation and Noxious Weed Management

Seed Mixture: Warm Season SSR Grass Seed Mix 350 (See Attachment #15)

Seed Rate: Acre: 50 lbs./ Acre

Method of Dispersal: First, the area was disc. Second, used a no till seeder (rented from Lea County USDA Service Center). The area received $\frac{3}{4}$ " of rain after seeding, and watering was not necessary. Photos were taken of the seed mixture bags, and all seeding activities. A total of 75 lbs. of seed mixture was dispersed at the location.

Follow up Monitoring Plan: The location will be monitored in the late summer (before the fall season). At that time, evaluation of growth in the area will determine if reseeding will be necessary. The area will also be monitored for noxious weeds. The area is small enough to rid the weeds mechanically.

Noxious Weeds Control

Republic Backhoe Service, LLC takes noxious weed control very seriously. All equipment and trucks are inspected before entering the pasture areas. The area will be monitored for the following noxious weeds (but not limited to):

Joint Goat Grass, Hoary Grass, Chest Grass, African Rus, Yellow Starthistle, Malta Starthistle, Purple Starthistle, Common Teasel, Camelthorn, and Russian Knapweed.

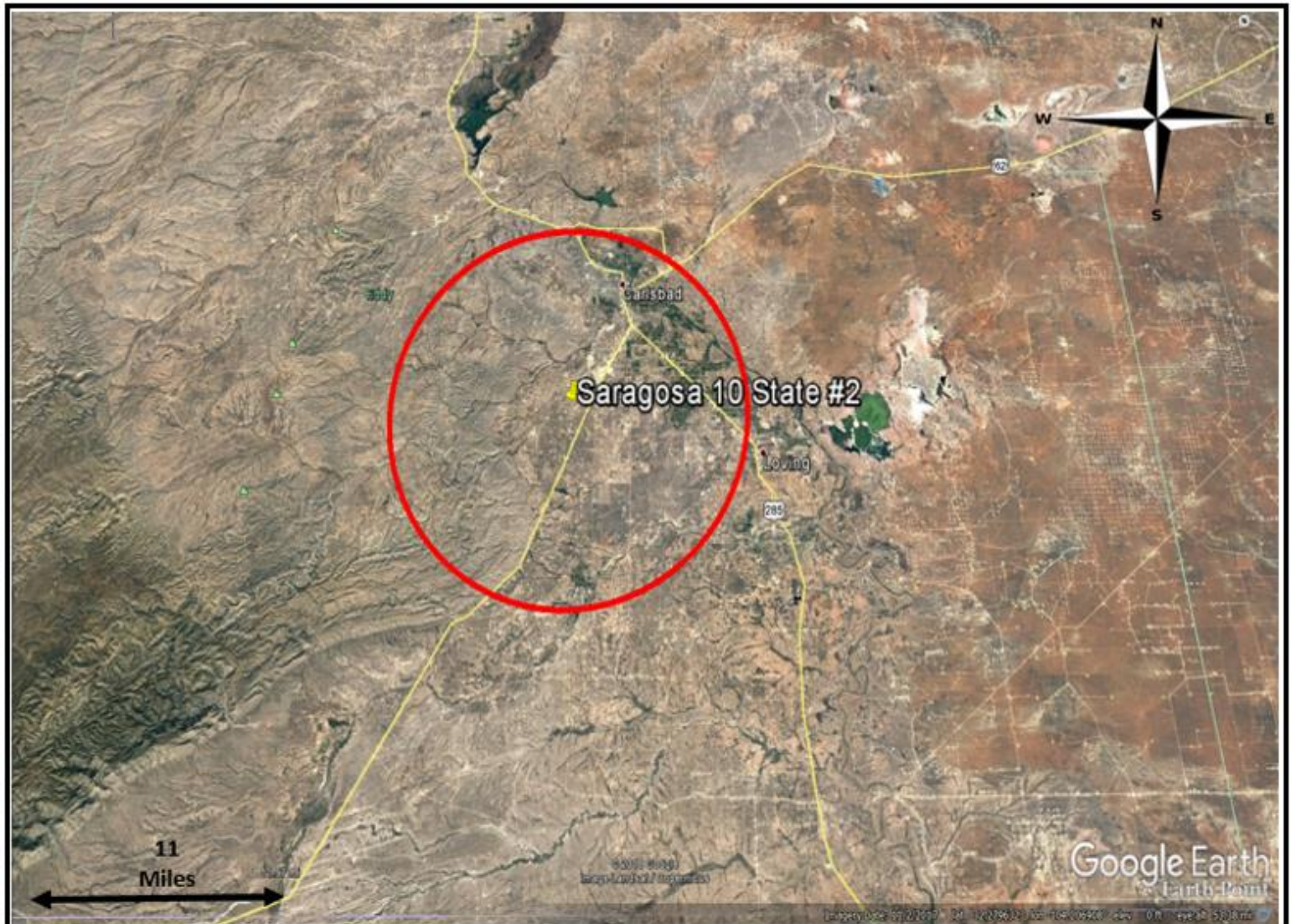
If you have any questions, please email me or call me at (575) 631-0131.

Thank you,

A handwritten signature in black ink, appearing to read "Eric Garcia", with a stylized flourish at the end.

Eric Garcia
Republic Backhoe Service, LLC

Attachment 1
Vicinity Area Map



Read & Stevens Inc.

Saragossa 10 State #2

B-10-23S-26E (330FNL & 2310FEL)

GPS Lat: 32.325566 Lon:-104.279915

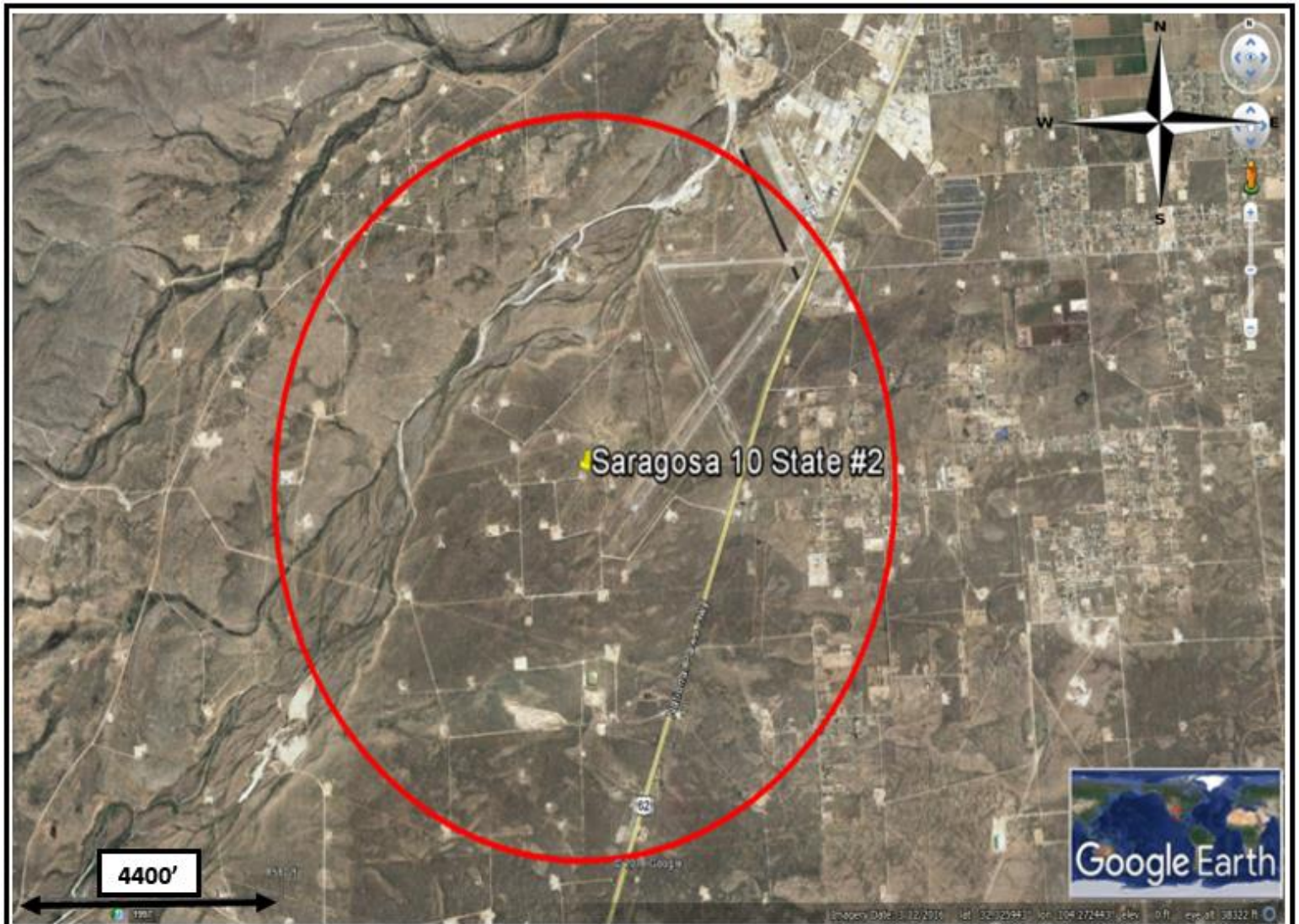
**Republic Backhoe
Service, LLC**

**47 E. Dickens Rd.
Lovington, NM 88260**

Aerial Map #1

10 Mile Radius

Attachment #2
Vicinity Area Map



Read & Stevens Inc.

Saragossa 10 State #2

B-10-23S-26E (330FNL & 2310FEL)

GPS Lat: 32.325566 Lon:-104.279915

**Republic Backhoe
Service, LLC**

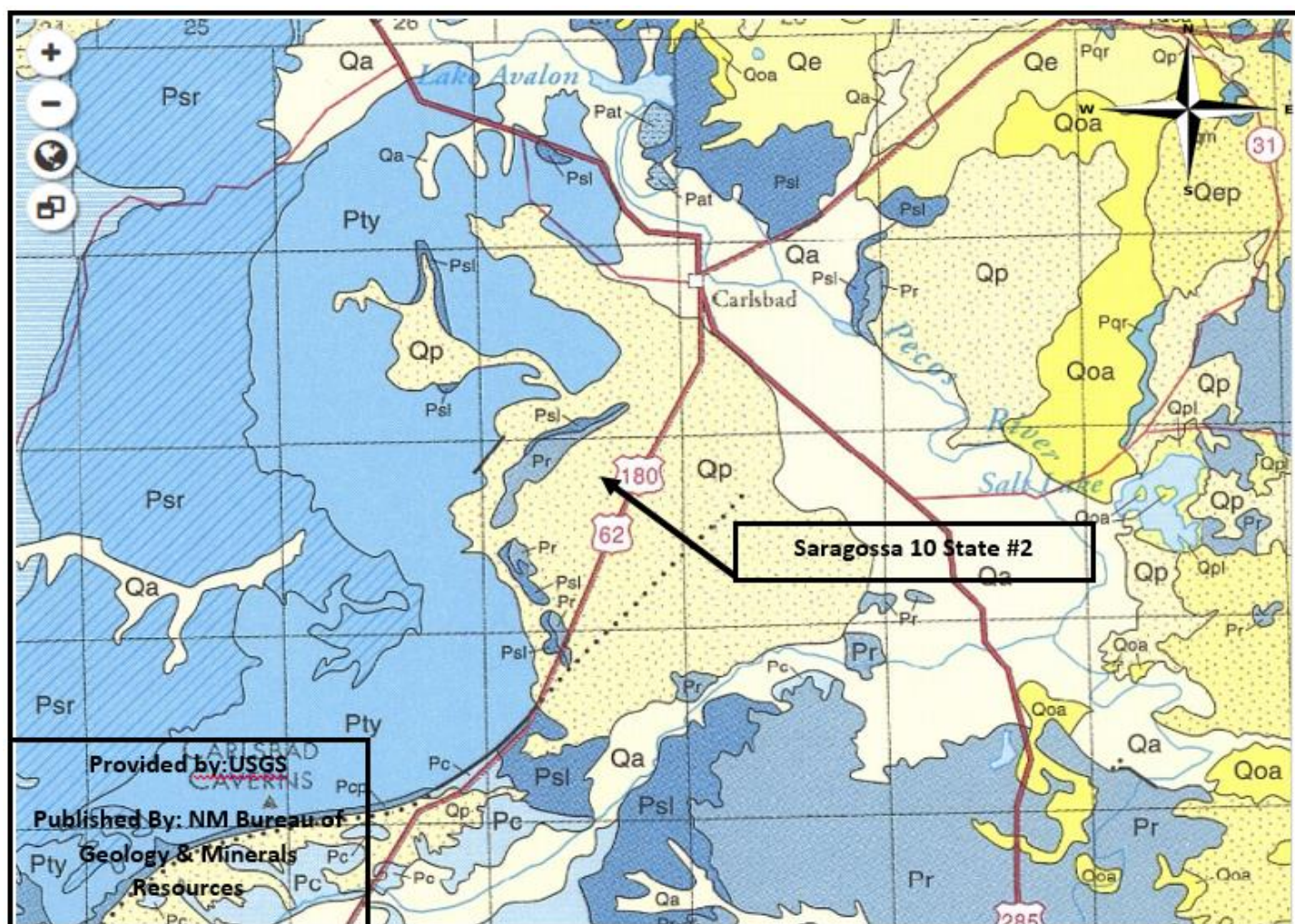
47 E. Dickens Rd.

Lovington, NM 88260

Aerial Map #2

2 Mile Radius

Attachment #3
Geological Map



Read & Stevens Inc.

Saragossa 10 State #2

B-10-23S-26E (330FNL & 2310FEL)

GPS Lat: 32.325566 Lon:-104.279915

Republic Backhoe
Service, LLC

47 E. Dickens Rd.

Lovington, NM 88260



Geological Map
Piedmont alluvial deposits

Alluvium

Rustler Formation

Salado Formation

Attachment #4

NMOSE Average Depth to Water



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

| POD Number | Code | POD Sub-basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | DepthWell | DepthWater | Water Column |
|-------------------------|------|---------------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|-----------|------------|--------------|
| C 02264 | | CUB | ED | 4 | 03 | 23S | 26E | | | 568065 | 3577254* | 579 | 260 | | |
| C 02382 | | C | ED | 4 | 03 | 23S | 26E | | | 568065 | 3577254* | 579 | 288 | 248 | 40 |
| C 02393 | | C | ED | 4 | 03 | 23S | 26E | | | 568065 | 3577254* | 579 | 290 | 245 | 45 |
| C 01310 | | C | ED | 1 | 3 | 2 | 11 | 23S | 26E | 569409 | 3576366* | 1675 | 250 | 220 | 30 |
| C 01548 | | C | ED | 3 | 2 | 11 | 23S | 26E | | 569510 | 3576267* | 1798 | 250 | | |
| C 01635 | | C | ED | 3 | 2 | 11 | 23S | 26E | | 569510 | 3576267* | 1798 | 255 | 205 | 50 |
| C 01708 | | C | ED | 3 | 2 | 11 | 23S | 26E | | 569510 | 3576267* | 1798 | 275 | 236 | 39 |
| C 01843 | | C | ED | 3 | 2 | 11 | 23S | 26E | | 569510 | 3576267* | 1798 | 252 | 217 | 35 |

Average Depth to Water: **228 feet**

Minimum Depth: **205 feet**

Maximum Depth: **248 feet**

Record Count: 8

UTM NAD83 Radius Search (in meters):

Easting (X): 567777.68

Northing (Y): 3576750.38

Radius: 2000

*UTM location was derived from PLSS - see Help

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.

1/9/19 10:46 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Read & Stevens Inc.

Saragossa 10 State #2

B-10-23S-26E (330FNL & 2310FEL)

GPS Lat: 32.325566 Lon:-104.279915

**Republic Backhoe
Service, LLC**

47 E. Dickens Rd.

Lovington, NM 88260

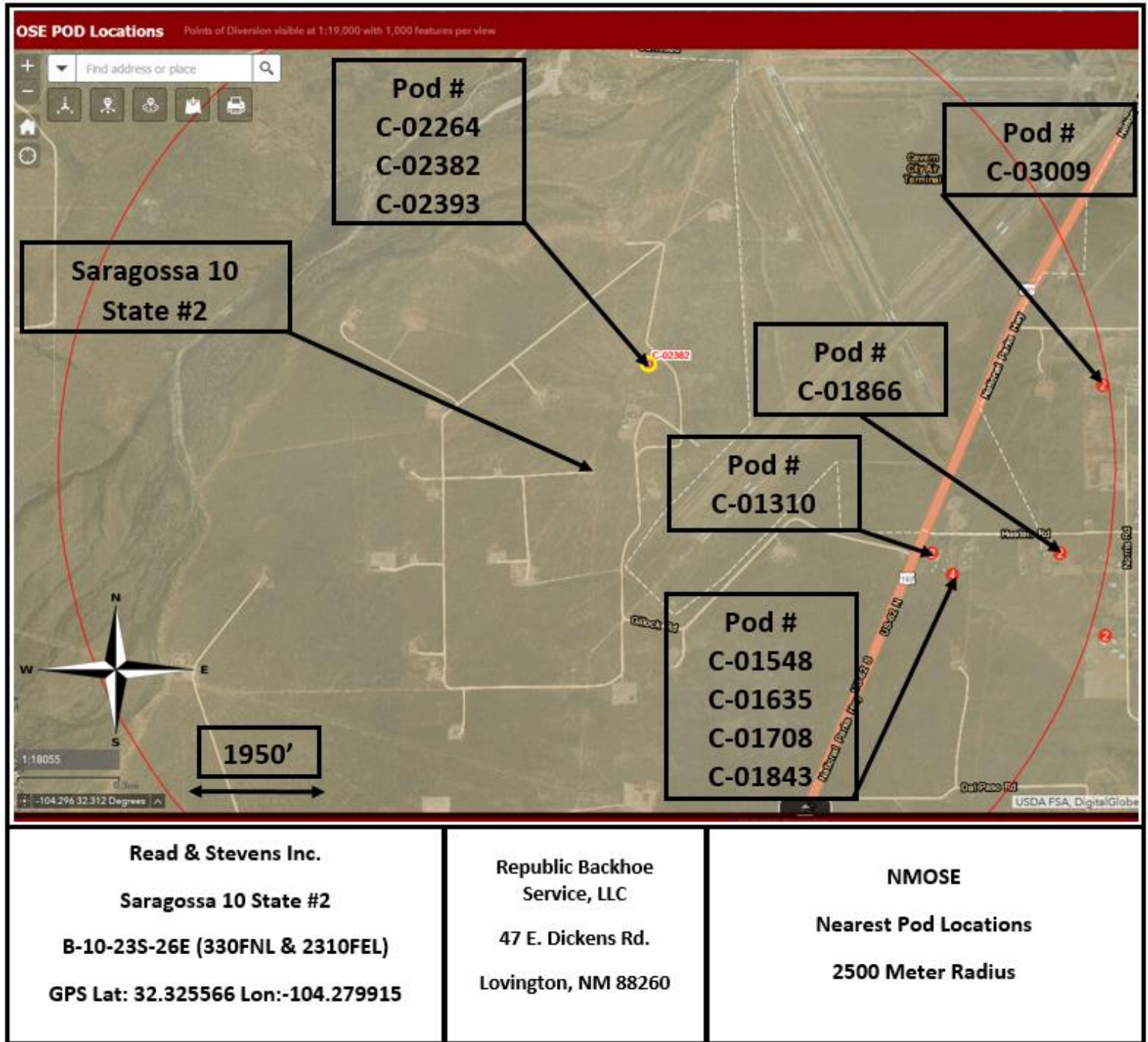
NMOSE

Water Column/Average Depth to Water

2000 Meter Radius

Attachment #5

Pod Locations



Attachment #6

Horizontal Extent of the Spill NMOSE Average Depth to Water



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number | Code | POD Sub-basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | Depth | Well | Depth | Water | Column |
|-------------------------|------|---------------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|-------|------|-------|-------|--------|
| C_02264 | | CUB | ED | 4 | 03 | 23S | 26E | | | 568065 | 3577254* | 372 | | 260 | | | |
| C_02382 | | C | ED | 4 | 03 | 23S | 26E | | | 568065 | 3577254* | 372 | | 288 | | 248 | 40 |
| C_02393 | | C | ED | 4 | 03 | 23S | 26E | | | 568065 | 3577254* | 372 | | 290 | | 245 | 45 |

Correction* C-02382 distance from Lateral Extent is 157.88 Meters.

C-2393 distance from Lateral Extent is 179.22 Meters.

Revised POD locations after talking with Rancher.

Average Depth to Water: 246 feet

Minimum Depth: 245 feet

Maximum Depth: 248 feet

Record Count: 3

UTM NAD83 Radius Search (in meters):

Easting (X): 567864.77

Northing (Y): 3576940.34

Radius: 1000

*UTM location was derived from PLSS - see Help

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.

1/10/19 9:03 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Read & Stevens Inc.

Saragossa 10 State #2

B-10-23S-26E (330FNL & 2310FEL)

GPS Lat: 32.325566 Lon:-104.279915

**Republic Backhoe
Service, LLC**

47 E. Dickens Rd.

Lovington, NM 88260

NMOSE Water Well Search

At North Extent of Spill

Sample Point TA7

1,000 Meter Radius

C-02382-518'

C-02393-588'

Attachment #7

Pod Locations



Read & Stevens Inc.

Saragossa 10 State #2

B-10-23S-26E (330FNL & 2310FEL)

GPS Lat: 32.325566 Lon:-104.279915

**Republic Backhoe
Service, LLC**

47 E. Dickens Rd.

Lovington, NM 88260

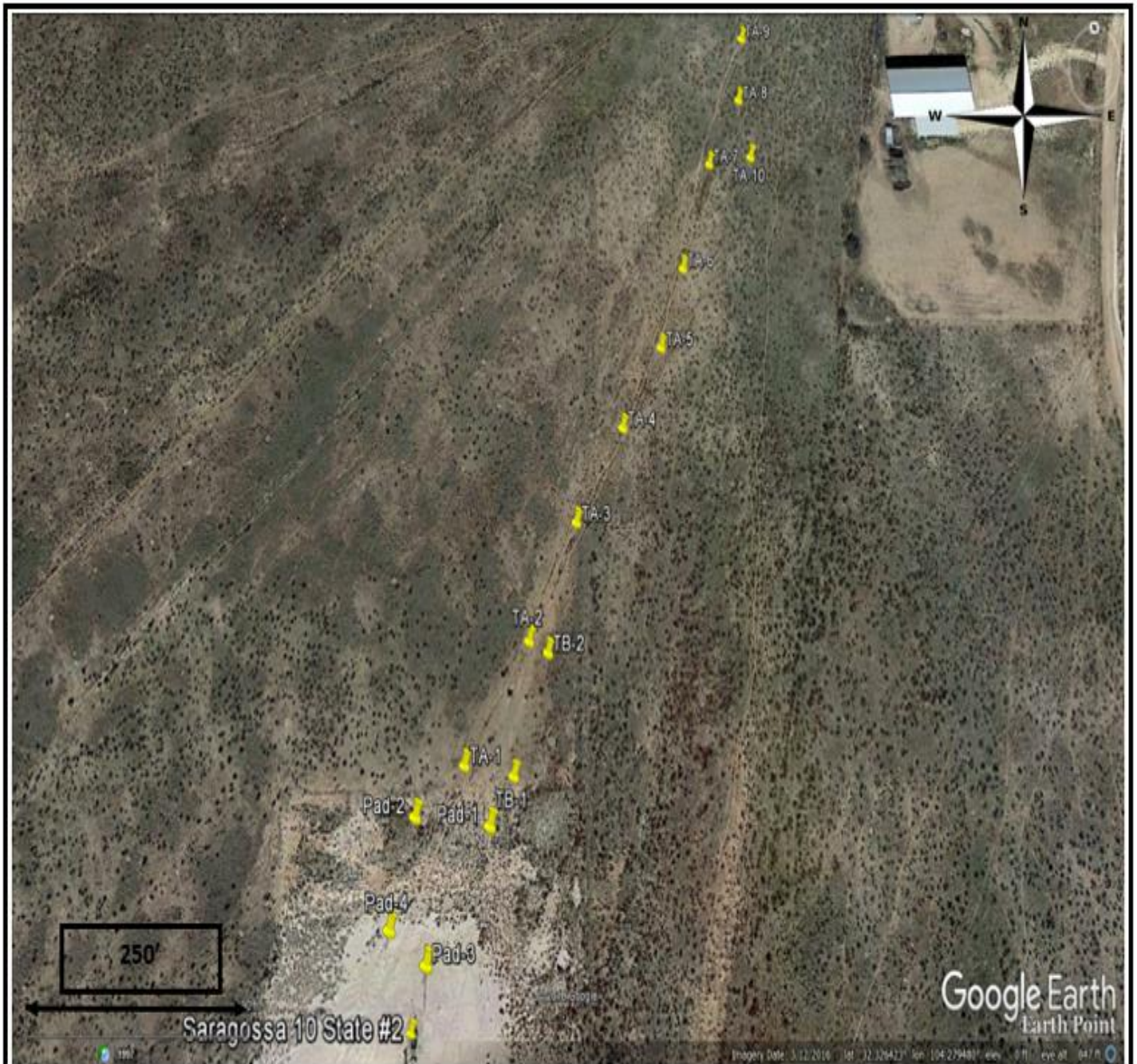
**NMOSE Water Well Search
At North Extent of Spill
Sample Point TA7**

C-02382-518'

C-02393-588'

Permanent Residence-482'

Attachment #8
Sampling Locations



Read & Stevens Inc.

Saragossa 10 State #2

B-10-23S-26E (330FNL & 2310FEL)

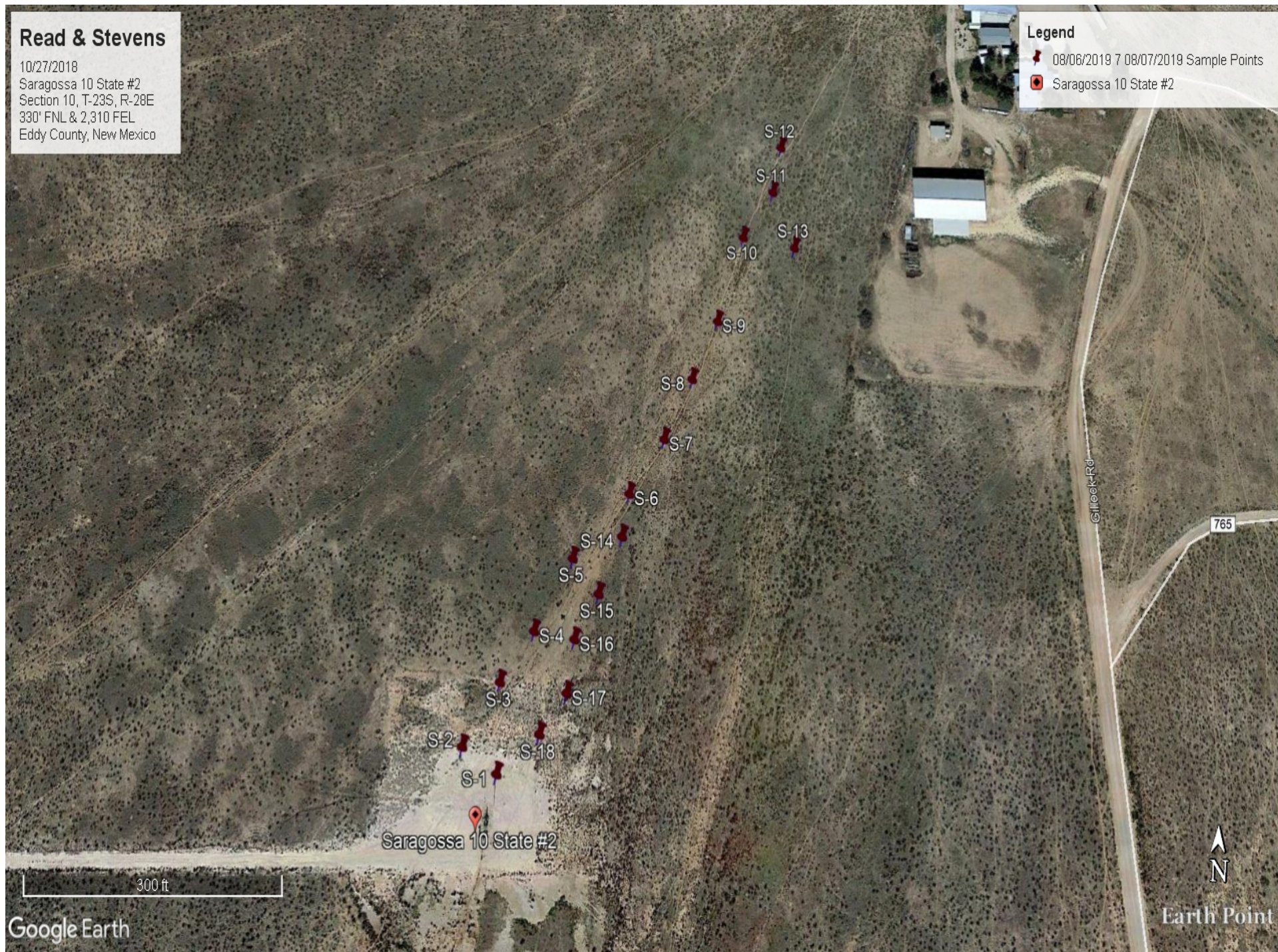
GPS Lat: 32.325566 Lon:-104.279915

**Republic Backhoe
Service, LLC**

47 E. Dickens Rd.

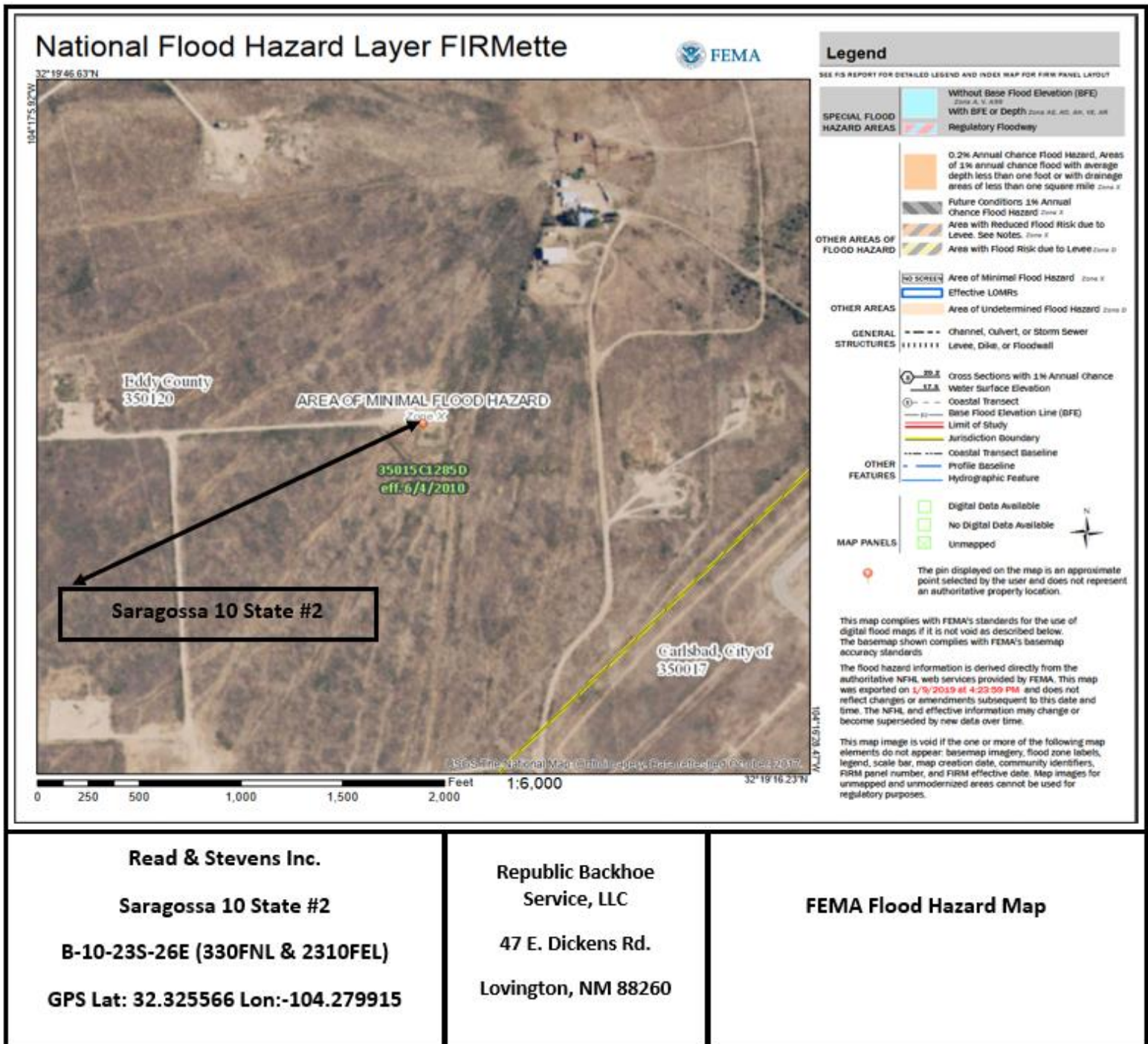
Lovington, NM 88260

Sampling Locations

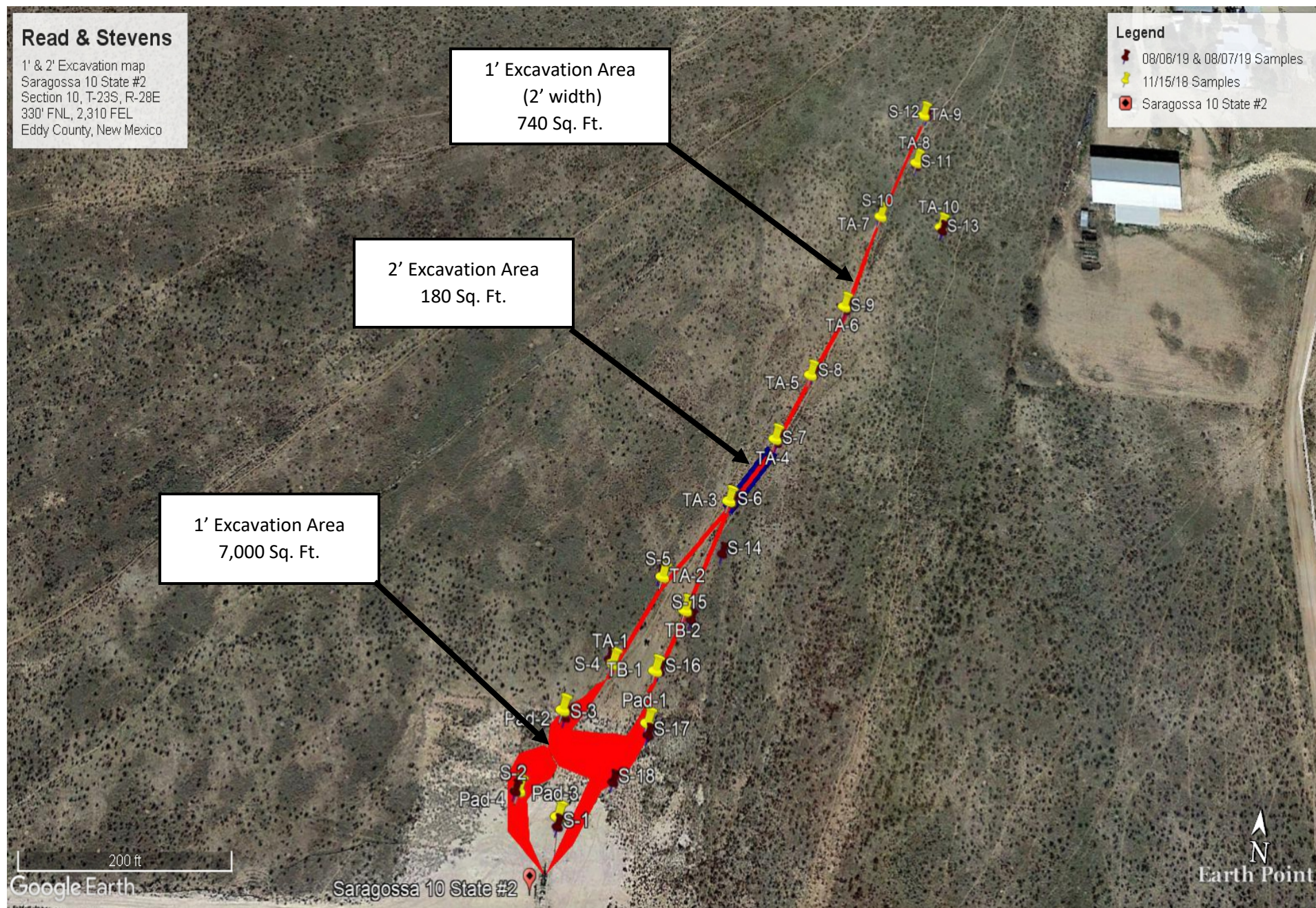


Attachment #9

Floodplain Map



Attachment #10
Spill and Excavation Map




Attachment #11
Reclamation Map

Read & Stevens

Reclamation Map
Saragossa 10 State #2
Section 10, T-23S, R-28E
330' FNL, 2,310' FEL
Eddy County, New Mexico

Legend

 Saragossa 10 State #2

Reclaimed Area:
22,275 Sq. Ft.

Original Location Size:
56,470 Sq. Ft.

Current Location Size:
34,195 Sq. Ft.

Saragossa 10 State #2

Google Earth 200 ft

©2020 Google


N
Earth Point

Attachment #12

Soil Description

| Description | USCS | Porosity [-] | | | Reference |
|---|---------|--------------|------|----------------|----------------|
| | | min | max | Specific value | |
| Well graded gravel, sandy gravel, with little or no fines | GW | 0.21 | 0.32 | | [1]. |
| Poorly graded gravel, sandy gravel, with little or no fines | GP | 0.21 | 0.32 | | [1]. |
| Silty gravels, silty sandy gravels | GM | 0.15 | 0.22 | | [1]. |
| Gravel | (GW-GP) | 0.23 | 0.38 | | [2]. |
| Clayey gravels, clayey sandy gravels | GC | 0.17 | 0.27 | | [1]. |
| Glacial till, very mixed grained | (GC) | - | - | 0.20 | [4 cited in 5] |
| Well graded sands, gravelly sands, with little or no fines | SW | 0.22 | 0.42 | | [1]. [2]. |
| Coarse sand | (SW) | 0.26 | 0.43 | | [2]. |
| Fine sand | (SW) | 0.29 | 0.46 | | [2]. |
| Poorly graded sands, gravelly sands, with little or no fines | SP | 0.23 | 0.43 | | [1]. [2]. |
| Silty sands | SM | 0.25 | 0.49 | | [1]. [2]. |
| Clayey sands | SC | 0.15 | 0.37 | | [1]. |
| Inorganic silts, silty or clayey fine sands, with slight plasticity | ML | 0.21 | 0.56 | | [1]. |
| Uniform inorganic silt | (ML) | 0.29 | 0.52 | | [3]. |
| Inorganic clays, silty clays, sandy clays of low plasticity | CL | 0.29 | 0.41 | | [1]. |
| Organic silts and organic silty clays of low plasticity | OL | 0.42 | 0.68 | | [1]. [3]. |
| Silty or sandy clay | (CL-OL) | 0.20 | 0.64 | | [3]. |
| Inorganic silts of high plasticity | MH | 0.53 | 0.68 | | [1]. |
| Inorganic clays of high plasticity | CH | 0.39 | 0.59 | | [1]. |
| Soft glacial clay | - | - | - | 0.55 | [4 cited in 5] |
| Stiff glacial clay | - | - | - | 0.38 | [4 cited in 5] |
| Organic clays of high plasticity | OH | 0.50 | 0.75 | | [1]. [3]. |
| Soft slightly organic clay | (OH-OL) | - | - | 0.66 | [4 cited in 5] |
| Peat and other highly organic soils | Pt | - | - | | [4 cited in 5] |
| soft very organic clay | (Pt) | - | - | 0.75 | [4 cited in 5] |

REFERENCES

1. Swiss Standard SN 670 010b, Characteristic Coefficients of soils, Association of Swiss Road and Traffic Engineers
2. Das, B., Advanced Soil Mechanics. Taylor & Francis, London & New York, 2008.
3. Hough, B., Basic soil engineering. Ronald Press Company, New York, 1969.
4. Terzaghi, K., Peck, R., and Mesri, G., Soil Mechanics in Engineering Practice. Wiley, New York, 1996.
5. Obrzud R. & Truty, A. THE HARDENING SOIL MODEL - A PRACTICAL GUIDEBOOK Z Soil.PC 100701 report, revised 31.01.2012

Citation :

Geotechdata.info, Soil void ratio, <http://geotechdata.info/parameter/soil-void-ratio.html> (as of November 16, 2013).

Attachment #13
Spill Calculations

***** LIQUID SPILLS - VOLUME CALCULATIONS *****

Location of Spill: Saragossa 10 State #2Date of Spill: 10/26/2018Site Soil Type: Sandy Loam & Caliche

Average Daily Production: 13 BBL Oil 128 BBL Water

| Total Area Calculations | | | | | | |
|-------------------------|-------|--------|----------------|---------|-------------|-----------|
| Total Surface Area | Width | Length | Wet Soil Depth | Oil (%) | Soil Class. | Porosity% |
| Polygon #1 | 3,755 | | 6" | 5 | GM | 0.15 |
| Polygon #2 | 3,664 | | 10" | 5 | GM/ML | 0.18 |
| Polygon #3 | 644 | | 4" | 99 | ML/CL | 0.25 |
| Polygon #4 | 173 | | 1/16" | 99 | ML | 0.21 |

| Saturated Soil Volume calculations: | | | H2O | OIL |
|-------------------------------------|----------|--|-------|------|
| Polygon #1 | 1,877.50 | | 47.60 | 2.50 |
| Polygon #2 | 3,053 | | 92.98 | 4.89 |
| Polygon #3 | 215 | | 0.09 | 9.45 |
| Polygon #4 | 11 | | 0.00 | 0.40 |

Total Solid/ Liquid Volume:

| <u>Estimated Volumes Spilled</u> | <u>H2O</u> | <u>OIL</u> |
|----------------------------------|------------|------------|
| | 140.67 | 17.24 |

| | | |
|-------------------|---|---|
| Liquid Recovered: | 0 | 2 |
|-------------------|---|---|

| | |
|---------------------|--------|
| Total Spill Liquid: | 155.91 |
|---------------------|--------|

Please view Attachment 12 for the references in obtaining the Porosity values.

The soil classification was gathered from Soil Survey Eddy Area, New Mexico March 1971.

Polygon #1 is from the caliche pad with Soil Class GM.

Polygon #2 is located on the caliche pad with 6" of caliche (GM) and 4" of top soil (ML). Porosity % is the average of both.

Polygon #3 is located on the pasture where fluids ran down cattle path. Includes ML and CL soil. Porosity % is average of both.

Polygon #4 is located on the northern end of the spill. This was mostly a misty that was carried by the wind. Soil samples did not show any contamination in this area.

Attachment #14
Laboratory Analysis



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

November 27, 2018

ERIC GARCIA

REPUBLIC BACKHOE SERVICES

47 E. DICKENS RD

LOVINGTON, NM 88260

RE: SARAGOSSA 10 ST. #2

Enclosed are the results of analyses for samples received by the laboratory on 11/19/18 15:37.

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 "Coley D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 7-5 (H803384-01)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/24/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/24/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 96.5 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 11/24/2018 | 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 | 11/21/2018 | ND | 187 | 93.5 | 200 | 3.29 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/21/2018 | ND | 204 | 102 | 200 | 0.672 | |
| EXT DRO >C28-C36 | 12.3 | 10.0 | 11/21/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 83.1 % 41-142

Surrogate: 1-Chlorooctadecane 86.8 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 11/19/2018
 Reported: 11/27/2018
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 11/15/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: TA 4-5 (H803384-02)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/24/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/24/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 95.1 % 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 | 336 | 16.0 | 11/24/2018 | 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 | 11/21/2018 | ND | 187 | 93.5 | 200 | 3.29 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/21/2018 | ND | 204 | 102 | 200 | 0.672 | |
| EXT DRO >C28-C36 | 11.6 | 10.0 | 11/21/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 91.8 % 41-142

Surrogate: 1-Chlorooctadecane 94.6 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD 2-5 (H803384-03)

| 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 | 11/24/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/24/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/24/2018 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 11/24/2018 | 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 |
| GRD C6-C10* | <10.0 | 10.0 | 11/21/2018 | ND | 187 | 93.5 | 200 | 3.29 | |
| DRO >C10-C28* | 12.4 | 10.0 | 11/21/2018 | ND | 204 | 102 | 200 | 0.672 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/21/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 81.5 % 41-142

Surrogate: 1-Chlorotetradecane 85.3 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 6-5 (H803384-04)

| 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 | 11/24/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/24/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/24/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 96.9 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 11/24/2018 | 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 | 11/21/2018 | ND | 187 | 93.5 | 200 | 3.29 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/21/2018 | ND | 204 | 102 | 200 | 0.672 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/21/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 86.5 % 41-142

Surrogate: 1-Chlorooctadecane 89.3 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD 3-5 (H803384-05)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/24/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/24/2018 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 11/24/2018 | 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 | 11/21/2018 | ND | 187 | 93.5 | 200 | 3.29 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/21/2018 | ND | 204 | 102 | 200 | 0.672 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/21/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 84.6 % 41-142

Surrogate: 1-Chlorooctadecane 84.1 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD 1-5 (H803384-06)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/24/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/24/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 96.8 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 11/24/2018 | ND | 432 | 108 | 400 | 0.00 | QR-03 |

| 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 | 11/21/2018 | ND | 187 | 93.5 | 200 | 3.29 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/21/2018 | ND | 204 | 102 | 200 | 0.672 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/21/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 84.7 % 41-142

Surrogate: 1-Chlorooctadecane 82.5 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD 3-2 (H803384-07)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/24/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/24/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 96.5 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 208 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/21/2018 | ND | 187 | 93.5 | 200 | 3.29 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/21/2018 | ND | 204 | 102 | 200 | 0.672 | |
| EXT DRO >C28-C36 | 18.8 | 10.0 | 11/21/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.2 % 41-142

Surrogate: 1-Chlorooctadecane 91.3 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 3 - SURFACE (H803384-08)

| BTX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <1.00 | 1.00 | 11/24/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <1.00 | 1.00 | 11/24/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | 2.24 | 1.00 | 11/24/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | 12.9 | 3.00 | 11/24/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTX | 15.2 | 6.00 | 11/24/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PII) 105 % 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 | 288 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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* | 642 | 100 | 11/21/2018 | ND | 187 | 93.5 | 200 | 3.29 | |
| DRO >C10-C28* | 28600 | 100 | 11/21/2018 | ND | 204 | 102 | 200 | 0.672 | |
| EXT DRO >C28-C36 | 5060 | 100 | 11/21/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 190 % 41-142

Surrogate: 1-Chlorooctadecane 954 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 7-2 (H803384-09)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/24/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/24/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 97.0 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 96.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/21/2018 | ND | 187 | 93.5 | 200 | 3.29 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/21/2018 | ND | 204 | 102 | 200 | 0.672 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/21/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 84.4 % 41-142

Surrogate: 1-Chlorooctadecane 83.9 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD 4-2 (H803384-10)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/24/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/24/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/24/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 97.0 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 96.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/21/2018 | ND | 187 | 93.5 | 200 | 3.29 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/21/2018 | ND | 204 | 102 | 200 | 0.672 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/21/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 85.5 % 41-142

Surrogate: 1-Chlorooctadecane 84.9 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 2 - SURFACE (H803384-11)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.500 | 0.500 | 11/24/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.500 | 0.500 | 11/24/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.500 | 0.500 | 11/24/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | 2.64 | 1.50 | 11/24/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <3.00 | 3.00 | 11/24/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PII) 104 % 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 | 6960 | 16.0 | 11/24/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | mg/kg | | Analyzed By: MS | | | | | | 5-06 |
|------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 274 | 100 | 11/21/2018 | ND | 187 | 93.5 | 200 | 3.29 | |
| DRO >C10-C28* | 27600 | 100 | 11/21/2018 | ND | 204 | 102 | 200 | 0.672 | |
| EXT DRO >C28-C36 | 5050 | 100 | 11/21/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 147 % 41-142

Surrogate: 1-Chlorooctadecane 593 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 11/19/2018
 Reported: 11/27/2018
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 11/15/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: TA 10 - SURFACE (H803384-12)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 96.7 % 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 | 11/24/2018 | ND | 432 | 108 | 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 | 11/21/2018 | ND | 187 | 93.5 | 200 | 3.29 | |
| DRO >C10-C28* | 56.3 | 10.0 | 11/21/2018 | ND | 204 | 102 | 200 | 0.672 | |
| EXT DRO >C28-C36 | 24.9 | 10.0 | 11/21/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.8 % 41-142

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 4-2 (H803384-13)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|--|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |
| <i>Surrogate: 4-Bromofluorobenzene (PII)</i> | | | | | | | | | |
| | 98.4 % | 73.3-129 | | | | | | | |
| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |
| <i>Surrogate: 1-Chlorooctane</i> | | | | | | | | | |
| | 89.2 % | 41-142 | | | | | | | |
| <i>Surrogate: 1-Chlorooctadecane</i> | | | | | | | | | |
| | 99.5 % | 37.6-147 | | | | | | | |

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TB 1 - SURFACE (H803384-14)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.500 | 0.500 | 11/25/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.500 | 0.500 | 11/25/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.500 | 0.500 | 11/25/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | 4.51 | 1.50 | 11/25/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | 4.51 | 3.00 | 11/25/2018 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 11/24/2018 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
| S-06 | | | | | | | | | |

| 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* | 491 | 100 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | 29800 | 100 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | 5310 | 100 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 123 % 41-142

Surrogate: 1-Chlorooctadecane 883 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 11/19/2018
 Reported: 11/27/2018
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 11/15/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PAD 1 - SURFACE (H803384-15)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.500 | 0.500 | 11/25/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.500 | 0.500 | 11/25/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | 1.02 | 0.500 | 11/25/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | 5.71 | 1.50 | 11/25/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | 6.73 | 3.00 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 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 | 1180 | 16.0 | 11/24/2018 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
| S-06 | | | | | | | | | |

| | | | | | | | | | |
|------------------|-------|-----|------------|----|-----|------|-----|------|--|
| GRO C6-C10* | 309 | 100 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | 20600 | 100 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | 4060 | 100 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 132 % 41-142

Surrogate: 1-Chlorooctadecane 668 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TB 2 - SURFACE (H803384-16)

| BTX 80218 | | 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 | 11/25/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | 1.71 | 0.150 | 11/25/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTX | 1.71 | 0.300 | 11/25/2018 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 400 | 0.00 | |

| 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* | 398 | 100 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | 36300 | 100 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | 7080 | 100 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 126 % 41-142

Surrogate: 1-Chlorooctadecane 1120 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD 2 - SURFACE (H803384-17)

| 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 | 11/25/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | 1.17 | 0.150 | 11/25/2018 | ND | 5.90 | 98.4 | 6.00 | 1.69 | |
| Total BTEX | 1.17 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 133 % 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 | 1710 | 16.0 | 11/24/2018 | ND | 432 | 108 | 400 | 0.00 | |

| 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* | 107 | 50.0 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | 11200 | 50.0 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | 2230 | 50.0 | 11/22/2018 | ND | | | | | |


Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 406 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 9 - SURFACE (H803384-18)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 96.9 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | 72.9 | 10.0 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | 37.6 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 70.6 % 41-142

Surrogate: 1-Chlorooctadecane 81.1 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 5-2 (H803384-19)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 96.8 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 98.1 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD 2-2 (H803384-20)

| BTX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 95.2 % 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 | 16.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 79.4 % 41-142

Surrogate: 1-Chlorooctadecane 85.7 % 37.6-147

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 1-2 (H803384-21)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 87.4 % 41-142

Surrogate: 1-Chlorooctadecane 95.8 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 5 - SURFACE (H803384-22)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.500 | 0.500 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.500 | 0.500 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | 2.42 | 0.500 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | 13.6 | 1.50 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTX | 16.0 | 3.00 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 115 % 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 | 64.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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* | 1000 | 100 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | 45600 | 100 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | 8250 | 100 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 144 % 41-142

Surrogate: 1-Chlorooctadecane 1330 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD 3- SURFACE (H803384-23)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.500 | 0.500 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.500 | 0.500 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | <0.500 | 0.500 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | 3.89 | 1.50 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | 3.89 | 3.00 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 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 | 30800 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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* | 130 | 50.0 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | 5370 | 50.0 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | 1180 | 50.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 272 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 2-5 (H803384-24)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRD C6-C10* | <10.0 | 10.0 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | 12.8 | 10.0 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 77.9% 41-142

Surrogate: 1-Chlorooctadecane 86.9% 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST, #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 4 - SURFACE (H803384-25)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.500 | 0.500 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | 1.14 | 0.500 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | 2.46 | 0.500 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | 13.0 | 1.50 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | 16.6 | 3.00 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 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 | 256 | 16.0 | 11/24/2018 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
| S-06 | | | | | | | | | |

| | | | | | | | | | |
|------------------|-------|-----|------------|----|-----|------|-----|------|--|
| GRO C6-C10* | 608 | 100 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | 27000 | 100 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | 4900 | 100 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 125 % 41-142

Surrogate: 1-Chlorooctadecane 808 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 6 - SURFACE (H803384-26)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.500 | 0.500 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | 0.615 | 0.500 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | 3.77 | 0.500 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | 21.5 | 1.50 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | 25.9 | 3.00 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 124 % 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 | 11/24/2018 | ND | 432 | 108 | 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* | 1290 | 100 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | 40100 | 100 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | 6970 | 100 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 160 % 41-142

Surrogate: 1-Chlorooctadecane 1110 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 8-2 (H803384-27)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | 49.8 | 10.0 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | 22.3 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.7 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 11/19/2018
 Reported: 11/27/2018
 Project Name: SARAGOSSA 10 ST, #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 11/15/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: TA 2-2 (H803384-28)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRD C6-C10* | <10.0 | 10.0 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.2 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 5-5 (H803384-29)

| 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 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 96.1 % 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 | 16.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 94.8 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TB 1-2 (H803384-30)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 96.7 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 112 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 98.1 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 3-2 (H803384-31)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 97.0 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.3 % 41-142

Surrogate: 1-Chlorooctadecane 99.2 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 1-5 (H803384-32)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 193 | 96.7 | 200 | 3.55 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 209 | 104 | 200 | 4.42 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 87.5 % 41-142

Surrogate: 1-Chlorooctadecane 94.5 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD 1-2 (H803384-33)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 97.3 % 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 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 188 | 94.0 | 200 | 3.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 202 | 101 | 200 | 5.04 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 83.3 % 41-142

Surrogate: 1-Chlorooctadecane 91.5 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 9-5 (H803384-34)

| 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 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 96.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 188 | 94.0 | 200 | 3.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 202 | 101 | 200 | 5.04 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.3 % 41-142

Surrogate: 1-Chlorooctadecane 97.5 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 6-2 (H803384-35)

| 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 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 98.0 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 188 | 94.0 | 200 | 3.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 202 | 101 | 200 | 5.04 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 76.1 % 41-142

Surrogate: 1-Chlorooctadecane 82.8 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 1 - SURFACE (H803384-36)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.500 | 0.500 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.500 | 0.500 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | 0.933 | 0.500 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | 5.16 | 1.50 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | 6.09 | 3.00 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 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 | 3200 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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* | 227 | 100 | 11/22/2018 | ND | 188 | 94.0 | 200 | 3.25 | |
| DRO >C10-C28* | 20900 | 100 | 11/22/2018 | ND | 202 | 101 | 200 | 5.04 | |
| EXT DRO >C28-C36 | 4130 | 100 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 128 % 41-142

Surrogate: 1-Chlorooctadecane 676 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD 4-5 (H803384-37)

| BTEX 80218 mg/kg | | | Analyzed By: MS | | | | | | |
|------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

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

| Chloride, SM4500Cl-B mg/kg | | | Analyzed By: AC | | | | | | |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 188 | 94.0 | 200 | 3.25 | |
| DRO >C10-C28* | 38.4 | 10.0 | 11/22/2018 | ND | 202 | 101 | 200 | 5.04 | |
| EXT DRO >C28-C36 | 14.9 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 78.4 % 41-142

Surrogate: 1-Chlorooctadecane 87.0 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 10-2 (H803384-38)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 94.4 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 188 | 94.0 | 200 | 3.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 202 | 101 | 200 | 5.04 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.5 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 3-5 (H803384-39)

| 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 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 1.08 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.19 | 109 | 2.00 | 0.189 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.11 | 106 | 2.00 | 0.0513 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 6.34 | 106 | 6.00 | 0.516 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 96.8 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 188 | 94.0 | 200 | 3.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 202 | 101 | 200 | 5.04 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 91.0 % 41-142

Surrogate: 1-Chlorooctadecane 99.8 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TB 2-2 (H803384-40)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 95.9 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 188 | 94.0 | 200 | 3.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 202 | 101 | 200 | 5.04 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 77.4 % 41-142

Surrogate: 1-Chlorooctadecane 85.3 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST, #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TB 2-5 (H803384-41)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 95.9 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRD C6-C10* | <10.0 | 10.0 | 11/22/2018 | ND | 188 | 94.0 | 200 | 3.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 202 | 101 | 200 | 5.04 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 83.4 % 41-142

Surrogate: 1-Chlorooctadecane 92.1 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 9-2 (H803384-42)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 98.2 % 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 | 64.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 188 | 94.0 | 200 | 3.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 202 | 101 | 200 | 5.04 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 81.1 % 41-142

Surrogate: 1-Chlorooctadecane 89.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD 4 - SURFACE (H803384-43)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4560 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 188 | 94.0 | 200 | 3.25 | |
| DRO >C10-C28* | 62.2 | 10.0 | 11/22/2018 | ND | 202 | 101 | 200 | 5.04 | |
| EXT DRO >C28-C36 | 11.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.5 % 41-142

Surrogate: 1-Chlorooctadecane 94.1 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 8 - SURFACE (H803384-44)

| BTX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 188 | 94.0 | 200 | 3.25 | |
| DRO >C10-C28* | 14.8 | 10.0 | 11/22/2018 | ND | 202 | 101 | 200 | 5.04 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 84.9 % 41-142

Surrogate: 1-Chlorooctadecane 93.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TB 1-5 (H803384-45)

| 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 | 11/25/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 97.3 % 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 | 48.0 | 16.0 | 11/24/2018 | ND | 432 | 108 | 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 | 11/22/2018 | ND | 188 | 94.0 | 200 | 3.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 202 | 101 | 200 | 5.04 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 87.9 % 41-142

Surrogate: 1-Chlorooctadecane 94.0 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 10-5 (H803384-46)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PII) 96.0 % 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 | 16.0 | 16.0 | 11/24/2018 | 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 | 11/22/2018 | ND | 188 | 94.0 | 200 | 3.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/22/2018 | ND | 202 | 101 | 200 | 5.04 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 94.3 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 11/19/2018
Reported: 11/27/2018
Project Name: SARAGOSSA 10 ST. #2
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 7 - SURFACE (H803384-47)

| 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 | 11/25/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | 0.173 | 0.150 | 11/25/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 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 | <16.0 | 16.0 | 11/24/2018 | 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* | 31.9 | 10.0 | 11/22/2018 | ND | 188 | 94.0 | 200 | 3.25 | |
| DRO >C10-C28* | 3810 | 10.0 | 11/22/2018 | ND | 202 | 101 | 200 | 5.04 | |
| EXT DRO >C28-C36 | 634 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 96.0 % 41-142

Surrogate: 1-Chlorooctadecane 195 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 11/19/2018
 Reported: 11/27/2018
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 11/15/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: TA 8-5 (H803384-48)

| BTEX 80218 | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.15 | 108 | 2.00 | 2.25 | |
| Toluene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.07 | 103 | 2.00 | 0.874 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2018 | ND | 2.01 | 100 | 2.00 | 1.42 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2018 | ND | 5.90 | 98.4 | 6.00 | 1.89 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2018 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 11/24/2018 | 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 | 11/22/2018 | ND | 188 | 94.0 | 200 | 3.25 | |
| DRO >C10-C28* | 35.6 | 10.0 | 11/22/2018 | ND | 202 | 101 | 200 | 5.04 | |
| EXT DRO >C28-C36 | 13.1 | 10.0 | 11/22/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 91.1 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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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 interferences. |
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| 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 SM4500C-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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

55 of 19 aged

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

Company Name: Mobile Bunkers Source LLC
Project Manager: Eric Gercia
Address: 47 E. Nelson Ave
City: Las Alamos State: NM Zip: 87806
Phone #: 575-631-0181 Fax #:
Project #:
Project Name: San Jose to St. #2
Project Location: San Jose to St. #2
Sample Name: Eric Gercia

Company: Paul Stevens
Attn: Joe Taylor
Address: P.O. Box 1518
City: Las Alamos
State: NM Zip: 87802
Phone #: 575-380-2175 Fax #:

Lab I.D. H803384 Sample I.D. TA 7-5
TA 4-5
TA 3-5
TA 3-2
TA 3-1
TA 3-0
TA 2-0
TA 1-0
TA 0-0

(S)RAB OR (C)OMP. # CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER:
ACID/BASE
ICE / COOL
OTHER:

DATE TIME
11-18-18 2:30
11-18-18 1:25
11-18-18 9:25
11-18-18 8:25
11-18-18 9:35
11-18-18 6:40
11-18-18 9:45
11-18-18 12:35
11-18-18 2:40
11-18-18 10:15

TPH
BTEX
Chloro

DELIVERED BY: (Circle One)
Sampler - UPS - Bus - Other: 0.32 / #97

Relinquished By: Charm Ben
Time: 11/19/18
Date: 3:37
Received By: Steve Henderson

Sample Condition
Cool ☒ Ambient ☐
Fits ☒ No ☐

CHECKED BY: [Signature]

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

REMARKS: Final: Eric Gercia 631-0181/15. can regul/15.

* Certified amount cannot be used for analysis. Please fax within 30 days to (575) 393-2476.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

| | | | |
|--|--|---|--|
| Company Name: <u>Republic Bank & Service LLC</u> Project Manager: <u>Eric Gonzalez</u> Address: <u>575 E. Victoria Ave</u> City: <u>Las Vegas</u> State: <u>NM</u> Zip: <u>87260</u> Phone #: <u>575-681-0181</u> Fax #: <u></u> Project #: <u></u> Project Name: <u>San Jose 10 St. #2</u> Project Location: <u>San Jose 10 St. #2</u> Sampler Name: <u>Eric Gonzalez</u> | | P.O. #: <u></u> Company: <u>Paul Sperry & Associates Inc.</u> Attn: <u>Tom Tovar</u> Address: <u>P.O. Box 1518</u> City: <u>Laswell</u> State: <u>NM</u> Zip: <u>88202</u> Phone #: <u>575-380-2105</u> Fax #: <u></u> | |
| Lab I.D. <u>H803384</u> Sample I.D. <u>TA 2-Surface</u> <u>TA 10-Surface</u> <u>TA 4-Surface</u> <u>TA 1-Surface</u> <u>TA 3-Surface</u> <u>TA 5-Surface</u> <u>TA 6-Surface</u> <u>TA 7-Surface</u> <u>TA 8-Surface</u> <u>TA 9-Surface</u> <u>TA 10-Surface</u> <u>TA 11-Surface</u> <u>TA 12-Surface</u> <u>TA 13-Surface</u> <u>TA 14-Surface</u> <u>TA 15-Surface</u> <u>TA 16-Surface</u> <u>TA 17-Surface</u> <u>TA 18-Surface</u> <u>TA 19-Surface</u> <u>TA 20-Surface</u> <u>TA 21-Surface</u> <u>TA 22-Surface</u> | | MATRIX (G/RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME TRH DTEX Cholesterol | |
| Relinquished By: <u>James Bon</u> Date: <u>11/14/15</u> Time: <u>3:37</u> Relinquished By: <u>Eric Gonzalez</u> Date: <u>11/14/15</u> Time: <u>3:37</u> Relinquished By: <u>Eric Gonzalez</u> Date: <u>11/14/15</u> Time: <u>3:37</u> | | Sample Condition Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked By: <u>Eric Gonzalez</u> Date: <u>11/14/15</u> Time: <u>3:37</u> | |

+ Cardinal cannot accept verbal reference. Please fax written reference to (575) 393-2326.

Page 2 of 5



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| | | | |
|---|--|---|--|
| Company Name: Republic Bank & Service LLC Project Manager: Eric Garcia Address: 877 E. Delors Ave City: Las Cruces State: NM Zip: 88106 Phone #: 575-631-0181 Fax #: Project #: Project Name: San Juan 10 St. #2 Project Location: San Juan 10 St. #2 Sample Name: Eric Garcia | | P.O. #: Company: Paul Stevens & Co. Attn: Tom Taylor Address: P.O. Box 1518 City: Lovell State: NM Zip: 88002 Phone #: 575-350-2175 Fax #: | |
| Lab I.D. H303384 | | Sample I.D. TA 1-2 Surface TA 3-3 Surface TA 4-4 Surface TA 5-5 Surface TA 6-6 Surface TA 7-7 Surface TA 8-8 Surface TA 9-9 Surface TA 10-10 Surface | |
| Matrix: (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: | | Preserv: ACID/BASE ICE / CDOL OTHER: | |
| DATE 11-15-18 11-15-18 11-15-18 11-15-18 11-15-18 11-15-18 11-15-18 11-15-18 11-15-18 11-15-18 | | TIME 10:45 1:30 9:30 11:30 1:00 3:00 3:00 11:15 11:55 11:55 | |
| TPH BTEX Chloride | | ANALYSIS REQUEST | |
| Relinquished By: <i>Eric Garcia</i> Date: 11/19/18 Received By: <i>Paul Stevens</i> Date: 11/19/18 Relinquished By: <i>Eric Garcia</i> Date: 11/19/18 Received By: <i>Paul Stevens</i> Date: 11/19/18 Delivered By: (Circle One) Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Broken <input type="checkbox"/> Other: <i>0.32 / #97</i> Sampler - UPS - Bus - Other: <i>0.32 / #97</i> Checked By: <i>Paul Stevens</i> Remarks: <i>Final: Eric Garcia 11/19/18</i> | | | |

* Confirmed receipt without changes. Please fax written changes to (575) 393-2476.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| | | | | |
|---|--|---|--------------|--|
| Company Name: Republic Banknote Service LLC Project Manager: Eric Goetz Address: 47 E. Dickens Ave City: Las Alamos State: NM Zip: 87126 Phone #: 575-631-0131 Fax #: Project #: Project Owner: Bud Stevens Project Location: Sargossa 10 St. #2 Sample Name: Eric Goetz | | P.O. #: Company: Bud Stevens Address: P.O. Box 1518 City: Las Alamos State: NM Zip: 87126 Phone #: 575-380-2705 Fax #: | | |
| Lab I.D. H803384 Sample I.D. TA 3-a TA 1-b TA 1-c TA 1-d TA 1-e TA 1-f TA 1-g TA 1-h TA 1-i TA 1-j TA 1-k TA 1-l TA 1-m TA 1-n TA 1-o TA 1-p TA 1-q TA 1-r TA 1-s TA 1-t TA 1-u TA 1-v TA 1-w TA 1-x TA 1-y TA 1-z TA 2-a TA 2-b TA 2-c TA 2-d TA 2-e TA 2-f TA 2-g TA 2-h TA 2-i TA 2-j TA 2-k TA 2-l TA 2-m TA 2-n TA 2-o TA 2-p TA 2-q TA 2-r TA 2-s TA 2-t TA 2-u TA 2-v TA 2-w TA 2-x TA 2-y TA 2-z TA 3-a TA 3-b TA 3-c TA 3-d TA 3-e TA 3-f TA 3-g TA 3-h TA 3-i TA 3-j TA 3-k TA 3-l TA 3-m TA 3-n TA 3-o TA 3-p TA 3-q TA 3-r TA 3-s TA 3-t TA 3-u TA 3-v TA 3-w TA 3-x TA 3-y TA 3-z TA 4-a TA 4-b TA 4-c TA 4-d TA 4-e TA 4-f TA 4-g TA 4-h TA 4-i TA 4-j TA 4-k TA 4-l TA 4-m TA 4-n TA 4-o TA 4-p TA 4-q TA 4-r TA 4-s TA 4-t TA 4-u TA 4-v TA 4-w TA 4-x TA 4-y TA 4-z TA 5-a TA 5-b TA 5-c TA 5-d TA 5-e TA 5-f TA 5-g TA 5-h TA 5-i TA 5-j TA 5-k TA 5-l TA 5-m TA 5-n TA 5-o TA 5-p TA 5-q TA 5-r TA 5-s TA 5-t TA 5-u TA 5-v TA 5-w TA 5-x TA 5-y TA 5-z TA 6-a TA 6-b TA 6-c TA 6-d TA 6-e TA 6-f TA 6-g TA 6-h TA 6-i TA 6-j TA 6-k TA 6-l TA 6-m TA 6-n TA 6-o TA 6-p TA 6-q TA 6-r TA 6-s TA 6-t TA 6-u TA 6-v TA 6-w TA 6-x TA 6-y TA 6-z TA 7-a TA 7-b TA 7-c TA 7-d TA 7-e TA 7-f TA 7-g TA 7-h TA 7-i TA 7-j TA 7-k TA 7-l TA 7-m TA 7-n TA 7-o TA 7-p TA 7-q TA 7-r TA 7-s TA 7-t TA 7-u TA 7-v TA 7-w TA 7-x TA 7-y TA 7-z TA 8-a TA 8-b TA 8-c TA 8-d TA 8-e TA 8-f TA 8-g TA 8-h TA 8-i TA 8-j TA 8-k TA 8-l TA 8-m TA 8-n TA 8-o TA 8-p TA 8-q TA 8-r TA 8-s TA 8-t TA 8-u TA 8-v TA 8-w TA 8-x TA 8-y TA 8-z TA 9-a TA 9-b TA 9-c TA 9-d TA 9-e TA 9-f TA 9-g TA 9-h TA 9-i TA 9-j TA 9-k TA 9-l TA 9-m TA 9-n TA 9-o TA 9-p TA 9-q TA 9-r TA 9-s TA 9-t TA 9-u TA 9-v TA 9-w TA 9-x TA 9-y TA 9-z TA 10-a TA 10-b TA 10-c TA 10-d TA 10-e TA 10-f TA 10-g TA 10-h TA 10-i TA 10-j TA 10-k TA 10-l TA 10-m TA 10-n TA 10-o TA 10-p TA 10-q TA 10-r TA 10-s TA 10-t TA 10-u TA 10-v TA 10-w TA 10-x TA 10-y TA 10-z | | (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: | DATE TIME | ANALYSIS REQUEST TPH BTEX Chloroform |
| Relinquished By: Eric Goetz Date: 11/19/18 Time: 3:37 Received By: Bud Stevens Date: 11/19/18 Time: 3:37 Sample Condition: Cool: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: Bud Stevens | | 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: For: Eric Goetz / Bud Stevens LA. Reg. #: | | |



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | |
|---|---|---|---|---|--|
| 55 of 55 aged CARDINAL Laboratories | | BILL TO | | ANALYSIS REQUEST | |
| Company Name: <u>Mobile Brake Service LLC</u> Project Manager: <u>Eric Goren</u> Address: <u>57 E. Victor's Lane</u> City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88260</u> Phone #: <u>575-631-0181</u> Fax #: <u></u> Project #: <u></u> Project Name: <u>San Jose 10 St. #2</u> Project Location: <u>San Jose 10 St. #2</u> Sample Name: <u>Eric Goren</u> | | P.O. #: <u></u> Company: <u>Paul Sperry Inc</u> Attn: <u>Tom Taylor</u> Address: <u>P.O. Box 1518</u> City: <u>Laswell</u> State: <u>NM</u> Zip: <u>88202</u> Phone #: <u>575-350-2105</u> Fax #: <u></u> | | | |
| Lab I.D. <u>H803984</u> Sample I.D. <u>41 TB 8-5</u> <u>42 TB 9-8</u> <u>43 PAD 4-Surface</u> <u>44 TB 8-Surface</u> <u>45 TB 1-5</u> <u>46 TB 10-5</u> <u>47 TB 7-Surface</u> <u>48 TB 8-5</u> | (G)RAB OR (C)OMP. <u>9</u> # CONTAINERS <u>1</u> GROUNDWATER <u></u> WASTEWATER <u></u> SOIL <u></u> OIL <u></u> SLUDGE <u></u> OTHER: <u></u> ACID/BASE: <u></u> ICE / COOL <u></u> OTHER: <u></u> | MATRIX <u></u> PRESERV. <u></u> SAMPLING <u></u> | DATE <u>11-5-18</u> TIME <u>12:30</u> <u>11-5-18</u> <u>3:35</u> <u>11-5-18</u> <u>10:00</u> <u>11-5-18</u> <u>8:55</u> <u>11-5-18</u> <u>12:05</u> <u>11-5-18</u> <u>4:10</u> <u>11-5-18</u> <u>2:30</u> <u>11-5-18</u> <u>3:00</u> | <u>TPH</u> <u>TEX</u> <u>Chloride</u> | |
| Requisitioned By: <u>James Bar</u> Date: <u>11/14/18</u> Time: <u>3:37</u> Received By: <u>John Spencer</u> | | Delivered By: (Circle One) Sample - UPS - Bus - Other: <u>0.30 / #97</u> Sample Condition: <u>Yes</u> Checked By: <u>John Spencer</u> | | | |
| Remarks: <u>For: Emergency Oil Spill</u> <u>Call: 575-350-2105</u> | | | | | |



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

August 13, 2019

ERIC GARCIA

REPUBLIC BACKHOE SERVICES

47 E. DICKENS RD

LOVINGTON, NM 88260

RE: SARAGOSSA 10 ST. #2

Enclosed are the results of analyses for samples received by the laboratory on 08/08/19 12:55.

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,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 4-1 (H902729-01)

| 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 | 08/10/2019 | ND | 1.95 | 97.4 | 2.00 | 4.14 | | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 99.8 | 2.00 | 2.05 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 100 | 2.00 | 2.05 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.14 | 102 | 6.00 | 2.21 | | |
| Total BTEX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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 | 16.0 | 16.0 | 08/12/2019 | 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 | 08/09/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/09/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/09/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.0 % 41-142

Surrogate: 1-Chlorooctadecane 98.1 % 37.6-147

Cardinal Laboratories

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 4-12 (H902729-02)

| 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 | 08/10/2019 | ND | 1.95 | 97.4 | 2.00 | 4.14 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 99.8 | 2.00 | 2.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 100 | 2.00 | 2.05 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.14 | 102 | 6.00 | 2.21 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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 | 08/12/2019 | 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 | 08/09/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/09/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/09/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.4 % 41-142

Surrogate: 1-Chlorooctadecane 96.5 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 5-1 (H902729-03)

| 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 | 08/10/2019 | ND | 1.95 | 97.4 | 2.00 | 4.14 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 99.8 | 2.00 | 2.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 100 | 2.00 | 2.05 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.14 | 102 | 6.00 | 2.21 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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 | 16.0 | 16.0 | 08/12/2019 | 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 | 08/09/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/09/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/09/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.4 % 41-142

Surrogate: 1-Chlorooctadecane 97.2 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 5-12 (H902729-04)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/10/2019 | ND | 1.95 | 97.4 | 2.00 | 4.14 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 99.8 | 2.00 | 2.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 100 | 2.00 | 2.05 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.14 | 102 | 6.00 | 2.21 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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 | 08/12/2019 | 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 | 08/09/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/09/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/09/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.9 % 41-142

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 6-1 (H902729-05)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/10/2019 | ND | 1.95 | 97.4 | 2.00 | 4.14 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 99.8 | 2.00 | 2.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 100 | 2.00 | 2.05 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.14 | 102 | 6.00 | 2.21 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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 | 08/12/2019 | 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 | 08/09/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | 77.8 | 10.0 | 08/09/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | 44.1 | 10.0 | 08/09/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 94.8 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 6-12 (H902729-06)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/10/2019 | ND | 1.95 | 97.4 | 2.00 | 4.14 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 99.8 | 2.00 | 2.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 100 | 2.00 | 2.05 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.14 | 102 | 6.00 | 2.21 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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 | 16.0 | 16.0 | 08/12/2019 | 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 | 08/09/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/09/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/09/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 88.9 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 7-1 (H902729-07)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/10/2019 | ND | 1.95 | 97.4 | 2.00 | 4.14 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 99.8 | 2.00 | 2.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 100 | 2.00 | 2.05 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.14 | 102 | 6.00 | 2.21 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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 | 08/12/2019 | 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 | 08/09/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | 143 | 10.0 | 08/09/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | 80.9 | 10.0 | 08/09/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 97.2 % 41-142

Surrogate: 1-Chlorooctadecane 98.2 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 7-12 (H902729-08)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/10/2019 | ND | 1.95 | 97.4 | 2.00 | 4.14 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 99.8 | 2.00 | 2.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 100 | 2.00 | 2.05 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.14 | 102 | 6.00 | 2.21 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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 | <16.0 | 16.0 | 08/12/2019 | 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 | 08/09/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/09/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/09/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.5 % 41-142

Surrogate: 1-Chlorooctadecane 90.3 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 8-1 (H902729-09)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/10/2019 | ND | 1.95 | 97.4 | 2.00 | 4.14 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 99.8 | 2.00 | 2.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 100 | 2.00 | 2.05 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.14 | 102 | 6.00 | 2.21 | |
| Total BTEX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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 | <16.0 | 16.0 | 08/12/2019 | 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 | 08/09/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/09/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/09/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 91.1 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 8-12 (H902729-10)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/10/2019 | ND | 1.95 | 97.4 | 2.00 | 4.14 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 99.8 | 2.00 | 2.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 100 | 2.00 | 2.05 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.14 | 102 | 6.00 | 2.21 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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 | 08/12/2019 | 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 | 08/09/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/09/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/09/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.0 % 41-142

Surrogate: 1-Chlorooctadecane 93.0 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 9-1 (H902729-11)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/10/2019 | ND | 1.95 | 97.4 | 2.00 | 4.14 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 99.8 | 2.00 | 2.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 100 | 2.00 | 2.05 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.14 | 102 | 6.00 | 2.21 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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 | 08/12/2019 | 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 | 08/09/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/09/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/09/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.0 % 41-142

Surrogate: 1-Chlorooctadecane 89.9 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 9-12 (H902729-12)

| 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 | 08/10/2019 | ND | 1.95 | 97.4 | 2.00 | 4.14 | | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 99.8 | 2.00 | 2.05 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 100 | 2.00 | 2.05 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.14 | 102 | 6.00 | 2.21 | | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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 | <16.0 | 16.0 | 08/12/2019 | 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 | 08/09/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/09/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/09/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.5 % 41-142

Surrogate: 1-Chlorooctadecane 90.0 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 10-1 (H902729-13)

| BTEx 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTEx | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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 | <16.0 | 16.0 | 08/12/2019 | 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 | 08/09/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/09/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/09/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.7 % 41-142

Surrogate: 1-Chlorooctadecane 91.3 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 10-12 (H902729-14)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTEX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 08/12/2019 | 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 | 08/09/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/09/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/09/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 91.5 % 41-142

Surrogate: 1-Chlorooctadecane 93.0 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 11-1 (H902729-15)

| 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 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTEx | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 08/12/2019 | 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 | 08/09/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/09/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/09/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 79.2 % 41-142

Surrogate: 1-Chlorooctadecane 79.9 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 11-12 (H902729-16)

| 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 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 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 | 08/12/2019 | 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 | 08/09/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/09/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/09/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 90.6 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 12-1 (H902729-17)

| 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 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTEX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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 | <16.0 | 16.0 | 08/12/2019 | 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 | 08/09/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/09/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/09/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.0 % 41-142

Surrogate: 1-Chlorooctadecane 80.5 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 12-12 (H902729-18)

| 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 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTEX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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 | 08/12/2019 | 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 | 08/10/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.6 % 41-142

Surrogate: 1-Chlorooctadecane 89.7 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 13-1 (H902729-19)

| 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 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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 | 16.0 | 16.0 | 08/12/2019 | 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 | 08/10/2019 | ND | 198 | 98.9 | 200 | 1.73 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 189 | 94.6 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 84.1 % 41-142

Surrogate: 1-Chlorooctadecane 83.9 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 13-12 (H902729-20)

| 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 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 08/12/2019 | 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 | 08/10/2019 | ND | 212 | 106 | 200 | 2.38 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 193 | 96.7 | 200 | 6.07 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.7 % 41-142

Surrogate: 1-Chlorooctadecane 92.1 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 14-1 (H902729-21)

| BTEx 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTEx | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 73.3-129

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 08/12/2019 | 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 | 08/10/2019 | ND | 212 | 106 | 200 | 2.38 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 193 | 96.7 | 200 | 6.07 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 96.1 % 41-142

Surrogate: 1-Chlorooctadecane 98.8 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 14-12 (H902729-22)

| 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 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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 | <16.0 | 16.0 | 08/12/2019 | 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 | 08/10/2019 | ND | 212 | 106 | 200 | 2.38 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 193 | 96.7 | 200 | 6.07 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 15-1 (H902729-23)

| BTEx 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTEx | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | <16.0 | 16.0 | 08/12/2019 | 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 | 08/10/2019 | ND | 212 | 106 | 200 | 2.38 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 193 | 96.7 | 200 | 6.07 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 87.2 % 41-142

Surrogate: 1-Chlorooctadecane 87.2 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 15-12 (H902729-24)

| 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 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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 | <16.0 | 16.0 | 08/12/2019 | 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 | 08/10/2019 | ND | 212 | 106 | 200 | 2.38 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 193 | 96.7 | 200 | 6.07 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.0 % 41-142

Surrogate: 1-Chlorooctadecane 91.9 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 16-1 (H902729-25)

| BTEx 8021B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTEx | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | <16.0 | 16.0 | 08/12/2019 | 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 | 08/10/2019 | ND | 212 | 106 | 200 | 2.38 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 193 | 96.7 | 200 | 6.07 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 87.2 % 41-142

Surrogate: 1-Chlorooctadecane 88.1 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 16-12 (H902729-26)

| 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 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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 | <16.0 | 16.0 | 08/12/2019 | 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 | 08/10/2019 | ND | 212 | 106 | 200 | 2.38 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 193 | 96.7 | 200 | 6.07 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 91.3 % 41-142

Surrogate: 1-Chlorooctadecane 94.8 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 17-1 (H902729-27)

| 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 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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 | <16.0 | 16.0 | 08/12/2019 | 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 | 08/10/2019 | ND | 212 | 106 | 200 | 2.38 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 193 | 96.7 | 200 | 6.07 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.8 % 41-142

Surrogate: 1-Chlorooctadecane 98.8 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 17-12 (H902729-28)

| 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 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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 | 08/12/2019 | 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 | 08/10/2019 | ND | 212 | 106 | 200 | 2.38 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 193 | 96.7 | 200 | 6.07 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.8 % 41-142

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 18-1 (H902729-29)

| 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 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.3-129

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 08/12/2019 | 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 | 08/10/2019 | ND | 212 | 106 | 200 | 2.38 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 193 | 96.7 | 200 | 6.07 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 73.4 % 41-142

Surrogate: 1-Chlorooctadecane 75.8 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 18-12 (H902729-30)

| 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 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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 | 16.0 | 16.0 | 08/12/2019 | 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 | 08/10/2019 | ND | 212 | 106 | 200 | 2.38 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 193 | 96.7 | 200 | 6.07 | |
| EXT DRO >C28-C36 | 49.8 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 85.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.1 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 1-1 (H902729-31)

| 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 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 73.3-129

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 08/12/2019 | 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 | 08/10/2019 | ND | 212 | 106 | 200 | 2.38 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 193 | 96.7 | 200 | 6.07 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.5 % 41-142

Surrogate: 1-Chlorooctadecane 97.1 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 1-12 (H902729-32)

| 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 | 08/10/2019 | ND | 2.23 | 111 | 2.00 | 4.82 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.27 | 114 | 2.00 | 4.17 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.19 | 110 | 2.00 | 6.42 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.58 | 110 | 6.00 | 6.16 | |
| Total BTEX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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 | 08/13/2019 | ND | 432 | 108 | 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 | 08/10/2019 | ND | 212 | 106 | 200 | 2.38 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 193 | 96.7 | 200 | 6.07 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 81.4 % 41-142

Surrogate: 1-Chlorooctadecane 84.3 % 37.6-147

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 2-1 (H902729-33)

| 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 | 08/10/2019 | ND | 1.94 | 97.1 | 2.00 | 4.39 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.01 | 101 | 2.00 | 4.43 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 100 | 2.00 | 5.17 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.12 | 102 | 6.00 | 5.54 | |
| Total BTEx | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 08/13/2019 | ND | 432 | 108 | 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 | 08/10/2019 | ND | 212 | 106 | 200 | 2.38 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 193 | 96.7 | 200 | 6.07 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 76.7 % 41-142

Surrogate: 1-Chlorooctadecane 75.4 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 2-12 (H902729-34)

| 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 | 08/10/2019 | ND | 1.94 | 97.1 | 2.00 | 4.39 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.01 | 101 | 2.00 | 4.43 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 100 | 2.00 | 5.17 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.12 | 102 | 6.00 | 5.54 | |
| Total BTEx | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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 | 16.0 | 16.0 | 08/13/2019 | ND | 432 | 108 | 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 | 08/10/2019 | ND | 212 | 106 | 200 | 2.38 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 193 | 96.7 | 200 | 6.07 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 81.6 % 41-142

Surrogate: 1-Chlorooctadecane 84.1 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 3-1 (H902729-35)

| 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 | 08/10/2019 | ND | 1.94 | 97.1 | 2.00 | 4.39 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.01 | 101 | 2.00 | 4.43 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 100 | 2.00 | 5.17 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.12 | 102 | 6.00 | 5.54 | |
| Total BTX | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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 | <16.0 | 16.0 | 08/13/2019 | ND | 432 | 108 | 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 | 08/10/2019 | ND | 212 | 106 | 200 | 2.38 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 193 | 96.7 | 200 | 6.07 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.2 % 41-142

Surrogate: 1-Chlorooctadecane 99.1 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/08/2019
 Reported: 08/13/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS

Sampling Date: 08/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 3-12 (H902729-36)

| 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 | 08/10/2019 | ND | 1.94 | 97.1 | 2.00 | 4.39 | |
| Toluene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.01 | 101 | 2.00 | 4.43 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/10/2019 | ND | 2.00 | 100 | 2.00 | 5.17 | |
| Total Xylenes* | <0.150 | 0.150 | 08/10/2019 | ND | 6.12 | 102 | 6.00 | 5.54 | |
| Total BTEx | <0.300 | 0.300 | 08/10/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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 | 16.0 | 16.0 | 08/13/2019 | ND | 432 | 108 | 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 | 08/10/2019 | ND | 212 | 106 | 200 | 2.38 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/10/2019 | ND | 193 | 96.7 | 200 | 6.07 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/10/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.0 % 41-142

Surrogate: 1-Chlorooctadecane 92.1 % 37.6-147

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

| | |
|-------|--|
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

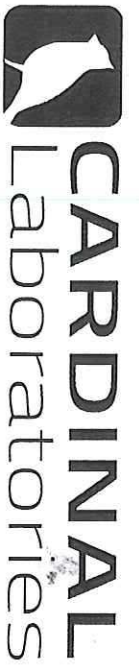
| | | | |
|---|--|---|--|
| Company Name: Republic Backhoe Service LLC Project Manager: Eric Garcia Address: 47 E Dickens Rd City: Lovington State: NM zip: 88260 Phone #: 575-631-0131 Fax #: Project #: Project Owner: Read Stevens Project Name: Saragossa 10 State #2 Project Location: Eddy County Sample Name: Eric Barcia | | P.O. #: Company: Read and Stevens Attn: Joe To var Address: PO Box 1518 City: Roswell State: NM zip: 88202 Phone #: 575-390-2425 Fax #: | |
|---|--|---|--|

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | PRESERV. | SAMPLING | DATE | TIME | TPH | BTEx | Chloride |
|----------|-------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|----------|----------|-------|------|-----|------|----------|
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | | | | | | | |
| H902729 | S5-1 | X | 1 | | | | | | | | 8/6/19 | 9:30 | ✓ | ✓ | ✓ | |
| 3 | S5-12 | X | 1 | | | | | | | | 8/6/19 | 10:00 | ✓ | ✓ | ✓ | |
| 4 | S6-1 | X | 1 | | | | | | | | 8/6/19 | 10:30 | | | | |
| 5 | S6-12 | X | 1 | | | | | | | | 8/6/19 | 11:00 | | | | |
| 6 | S7-1 | X | 1 | | | | | | | | 8/6/19 | 11:30 | | | | |
| 7 | S7-12 | X | 1 | | | | | | | | 8/6/19 | 12:00 | | | | |
| 8 | S8-1 | X | 1 | | | | | | | | 8/6/19 | 12:30 | | | | |
| 9 | S8-12 | X | 1 | | | | | | | | 8/6/19 | 1:00 | | | | |
| 10 | S9-1 | X | 1 | | | | | | | | 8/6/19 | 1:15 | | | | |
| 11 | S9-12 | X | 1 | | | | | | | | 8/6/19 | 1:30 | | | | |

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| | |
|---|---|
| Relinquished By: Date: 8-8-19 Time: 12:55 Relinquished By: | Received By: Date: 8-8-19 Time: 12:55 Received By: |
|---|---|

| | |
|--|---|
| Delivered By: (Circle One) 2.82 #97 Sampler - UPS - Bus - Other: Consented 3.22 Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked BY: (Initials) TC. | REMARKS: Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Add'l Fax #: |
|--|---|



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| | | | | | | | |
|--|-------------|---------------------------|--------------|-------------|----------|------------------|----------|
| Company Name: Republic Backhoe Service LLC | | P.O. #: | | BILL TO | | ANALYSIS REQUEST | |
| Project Manager: Eric Garcia | | Company: Read and Stevens | | | | | |
| Address: 47 E Dickens Rd | | Attn: Joe Toovar | | | | | |
| City: Lovington | | Address: PO Box 1518 | | | | | |
| Phone #: 575-631-0131 | | City: Roswell | | | | | |
| State: NM zip: 88260 | | State: NM zip: 88202 | | | | | |
| Project #: | | Phone #: 575-390-2425 | | | | | |
| Project Owner: Read Stevens | | Fax #: | | | | | |
| Project Name: Sarragossa 10 State #2 | | | | | | | |
| Project Location: Eddy County | | | | | | | |
| Sampler Name: Eric Barcia | | | | | | | |
| FOR LAB USE ONLY | | | | | | | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | PRESERV. | SAMPLING | |
| 1402729 | S10-1 | X | 1 | GROUNDWATER | | 8/6/19 1:45 | TPH |
| 13 | S10-12 | X | | WASTEWATER | | 8/6/19 2:00 | BTEX |
| 14 | S11-1 | X | | SOIL | | 8/6/19 2:15 | Chloride |
| 15 | S11-12 | X | | OIL | | 8/6/19 2:30 | |
| 16 | S12-1 | X | | SLUDGE | | 8/6/19 2:45 | |
| 17 | S13-1 | X | | OTHER : | | 8/6/19 3:00 | |
| 18 | S13-12 | X | | ACID/BASE: | | 8/6/19 3:15 | |
| 19 | S14-1 | X | | ICE / COOL | | 8/6/19 3:30 | |
| 20 | S14-12 | X | | OTHER : | | 8/6/19 3:45 | |
| 21 | | X | | | | 8/6/19 4:00 | |
| 22 | | X | | | | | |

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| | | | |
|--|---|----------------------------|--------------|
| Relinquished By: | Date: 8-8-19 | Received By: | Date: 8-8-19 |
| Time: 12:55 | Time: 12:55 | Time: 12:55 | Time: 12:55 |
| Relinquished By: | Received By: | Relinquished By: | Received By: |
| Delivered By: (Circle One) 3.8°C | Sample Condition Cool Intact | Checked By: (Initials) 4.0 | |
| Sampler - UPS - Bus - Other: Corrupted 3.2°C | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |
| REMARKS: | | | |
| Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: | | | |
| Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: | | | |



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| | | | | | | | |
|--|--|---------------------------|--|------------------|--|--|--|
| Company Name: Republic Backhoe Service LLC | | BILL TO | | ANALYSIS REQUEST | | | |
| Project Manager: Eric Garcia | | P.O. #: | | | | | |
| Address: 47 E Dickens Rd | | Company: Read and Stevens | | | | | |
| City: Lovington | | Attn: Joe Tovar | | | | | |
| Phone #: 575-631-0131 | | Address: PO Box 1518 | | | | | |
| Project #: Project Owner: Read & Stevens | | City: Roswell | | | | | |
| Project Name: Sarraquossa 10 State #2 | | State: NM zip: 88202 | | | | | |
| Project Location: Eddy County | | Phone #: 575-390-2425 | | | | | |
| Sample Name: Eric Garcia | | Fax #: | | | | | |

[illegible]

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| | | | | | | | | | | | |
|------------------------------|--|----------------|--|--------------|--|---|--|---|-----------------------------|----------------|--|
| Relinquished By: | | Date: 8-8-19 | | Received By: | | Phone Result: | | <input type="checkbox"/> Yes | <input type="checkbox"/> No | Add'l Phone #: | |
| Relinquished By: | | Time: 12:55 | | Received By: | | Fax Result: | | <input type="checkbox"/> Yes | <input type="checkbox"/> No | Add'l Fax #: | |
| Relinquished By: | | Date: | | Received By: | | REMARKS: | | | | | |
| Time: | | | | | | | | | | | |
| Delivered By: (Circle One) | | 2:52 | | 497 | | Sample Condition | | CHECKED BY: | | | |
| Sampler - UPS - Bus - Other: | | Corrected 3:22 | | | | Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No | | Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| | | | | | | V.O. | | | | | |

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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| | | | | | | | |
|--|-------------|---------------------------|--------------|-------------|-------|------------------|----------|
| Company Name: Republic Backhoe Service LLC | | P.O. #: | | BILL TO | | ANALYSIS REQUEST | |
| Project Manager: Eric Garcia | | | | | | | |
| Address: 47 E Dickens Rd | | Company: Read and Stevens | | | | | |
| City: Lovington | | Attn: Joe Toovar | | | | | |
| State: NM zip: 88260 | | Address: PO Box 1518 | | | | | |
| Phone #: 575-631-0131 | | City: Roswell | | | | | |
| Fax #: | | State: NM zip: 88202 | | | | | |
| Project #: Project Owner: Read Stevens | | Phone #: 575-390-2425 | | | | | |
| Project Name: Sarragossa 10 State #2 | | Fax #: | | | | | |
| Project Location: Eddy County | | | | | | | |
| Sampler Name: Eric Garcia | | | | | | | |
| FOR LAB USE ONLY | | | | | | | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | PRESERV. | SAMPLING |
| | | | | GROUNDWATER | | | |
| | | | | WASTEWATER | | | |
| | | | | SOIL | | | |
| | | | | OIL | | | |
| | | | | SLUDGE | | | |
| | | | | OTHER : | | | |
| | | | | ACID/BASE: | | | |
| | | | | ICE / COOL | | | |
| | | | | OTHER : | | | |
| | | | | DATE | TIME | | |
| 27 | S17-1 | X | 1 | 8/7/19 | 8:00 | ✓ | TPH |
| 28 | S17-12 | X | | 8/7/19 | 8:15 | ✓ | BTEX |
| 29 | S18-1 | X | | 8/7/19 | 8:30 | ✓ | Chloride |
| 30 | S18-12 | X | | 8/7/19 | 8:45 | | |
| 31 | S1-1 | X | | 8/7/19 | 9:00 | | |
| 32 | S1-12 | X | | 8/7/19 | 9:15 | | |
| 33 | S2-1 | X | | 8/7/19 | 9:30 | | |
| 34 | S2-12 | X | | 8/7/19 | 9:45 | | |
| 35 | S3-1 | X | | 8/7/19 | 10:00 | | |
| 36 | S3-12 | X | | 8/7/19 | 10:15 | | |

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Relinquished By:

Date: 8-8-19

Time: 12:55

Received By: Lawrence Read Stevens

Relinquished By:

Date:

Time:

Received By:

Delivered By: (Circle One)

2.82

#97

Sample Condition

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other:

Corrected 3.22

Cool Intact

YES

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

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:



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

August 20, 2019

ERIC GARCIA

REPUBLIC BACKHOE SERVICES

47 E. DICKENS RD

LOVINGTON, NM 88260

RE: SARAGOSSA 10 ST. #2

Enclosed are the results of analyses for samples received by the laboratory on 08/16/19 10:40.

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



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

Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/16/2019
 Reported: 08/20/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS-EDDY CO.

Sampling Date: 08/13/2019
 Sampling Type: Sludge
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 6 - 2 (H902817-01)

| 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 | 08/16/2019 | ND | 1.72 | 86.0 | 2.00 | 8.65 | |
| Toluene* | <0.050 | 0.050 | 08/16/2019 | ND | 1.84 | 92.0 | 2.00 | 10.8 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/16/2019 | ND | 1.91 | 95.3 | 2.00 | 12.3 | |
| Total Xylenes* | <0.150 | 0.150 | 08/16/2019 | ND | 5.92 | 98.7 | 6.00 | 10.8 | |
| Total BTX | <0.300 | 0.300 | 08/16/2019 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 16.0 | 16.0 | 08/19/2019 | ND | 416 | 104 | 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 | 08/16/2019 | ND | 207 | 104 | 200 | 2.89 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/16/2019 | ND | 198 | 98.9 | 200 | 6.97 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/16/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.0 % 41-142

Surrogate: 1-Chlorooctadecane 95.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

REPUBLIC BACKHOE SERVICES
 ERIC GARCIA
 47 E. DICKENS RD
 LOVINGTON NM, 88260
 Fax To: NONE

Received: 08/16/2019
 Reported: 08/20/2019
 Project Name: SARAGOSSA 10 ST. #2
 Project Number: NONE GIVEN
 Project Location: READ & STEVENS-EDDY CO.

Sampling Date: 08/13/2019
 Sampling Type: Sludge
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 7 - 2 (H902817-02)

| 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 | 08/16/2019 | ND | 1.72 | 86.0 | 2.00 | 8.65 | |
| Toluene* | <0.050 | 0.050 | 08/16/2019 | ND | 1.84 | 92.0 | 2.00 | 10.8 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/16/2019 | ND | 1.91 | 95.3 | 2.00 | 12.3 | |
| Total Xylenes* | <0.150 | 0.150 | 08/16/2019 | ND | 5.92 | 98.7 | 6.00 | 10.8 | |
| Total BTX | <0.300 | 0.300 | 08/16/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 16.0 | 16.0 | 08/19/2019 | ND | 416 | 104 | 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 | 08/16/2019 | ND | 207 | 104 | 200 | 2.89 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/16/2019 | ND | 198 | 98.9 | 200 | 6.97 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/16/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 94.7 % 41-142

Surrogate: 1-Chlorooctadecane 98.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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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. |
| 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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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 5



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

[illegible]

Attachment #15

Photos



Sample Location TA1-Looking South towards the source of release.



Sample Location TA2-Looking South towards the source of release.



Sample Location TA3-Looking South towards the source of release.



Sample Location TA4-Looking South towards the source of release.



Sample Location TA5-Looking South towards the source of release.



Sample Location TA6-Looking South towards the source of release.



Sample Location TA7-Looking South towards the source of release.



Sample Location TA8-Looking South towards the source of release.



Sample Location TA9-Looking South towards the source of release.



Sample Location TB1-Looking South towards the source of release.



Sample Location TB2-Looking South towards the source of release.



Sample ID Pad1



Sample ID Pad2



Sample ID Pad3



Sample ID Pad4















11:15:18

TA-4
S.
2.
5.
7.







| Bamert Seed Company Inc. | | | | | |
|---|-----------|--------|---------|-----------|--------|
| 1897 CR 1018 Muleshoe, TX 79347 | | | | | |
| Warm Season SSR seed mix 25# bag | | | | | |
| (800) 262-9892 | | | | | |
| Permit # TX00905 | | | | | |
| Lot/Sales # SO-68740 | | | | | |
| Description | Pure Seed | Germ | Dormant | Hard Seed | Origin |
| Bluestem, Little "Cimarron" (Schizachyrium scoparium) | 4.28% | 98.00% | 3.00% | 0.00% | TX |
| Bluestem, Yellow "WW Spar" (Andropogon ischaemum) | 6.85% | 98.00% | 1.00% | 0.00% | OK |
| Buffalograss, "Texoka" Not Primed (Bouteloua dactyloides) | 5.24% | 3.00% | 94.00% | 0.00% | TX |
| Dropseed, Sand (Sporobolus cryptandrus) | 5.30% | 21.00% | 75.00% | 0.00% | TX |
| Fescue, Tall "KY 31" (Festuca arundinacea Schreb.) | 1.69% | 98.00% | 0.00% | 0.00% | OR |
| Grama, Blue (Bouteloua gracilis) | 25.94% | 96.00% | 2.00% | 0.00% | TX |
| Grama, Sidecats "El Reno" (Bouteloua curtipendula) | 24.87% | 90.00% | 2.00% | 0.00% | TX |









Attachment #16

Excavation Logs

Site Name: Saragossa Date: 08/06/2019
10 State #2

Soil Profile

| Description | ft. bgs | |
|------------------------|---------|--|
| Top Soil | 1 | |
| | 2 | |
| Top Soil / Caliche Mix | 3 | |
| Caliche | 4 | |
| | 5 | |
| | 6 | |
| | 7 | |
| | 8 | |
| | 9 | |
| | 10 | |
| | 11 | |
| | 12 | |
| | 13 | |
| | 14 | |

32.327464
-104.278845



Attachment #17

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 | |
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| | |
|--|---|
| Responsible Party Read and Stevens, Inc. | OGRID 18917 |
| Contact Name Joe Tovar | Contact Telephone (575) 390-2425 |
| Contact email Jtovar@read-stevens.com | Incident # <i>(assigned by OCD)</i> |
| Contact mailing address P.O. Box 1518 Roswell, NM 88202 | |

Location of Release Source

Latitude 32.325566 Longitude -104.279915
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|---|---|
| Site Name Saragossa 10 State #2 | Site Type Oil Well |
| Date Release Discovered 10/27/2018 | API# <i>(if applicable)</i> 30-015-33586 |

| Unit Letter | Section | Township | Range | County |
|-------------|-----------|-----------------|----------------|-------------|
| B | 10 | 23 South | 26 East | Eddy |

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

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) 17.24 | Volume Recovered (bbls) 2 |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 140.67 | Volume Recovered (bbls) 0 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input checked="" 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

The cause of the release was a broken 1" connection at the well head. The connection has been replaced. Vacuum truck recovered 2 barrels of oil from the release. A backhoe was called out to pile the saturated material that was on the location and in the pasture.

Form C-141

Page 2

State of New Mexico
Oil Conservation Division

Incident ID

District RP

Facility ID

Application ID

Was this a major
release as defined by
19.15.29.7(A) NMAC?☒ Yes ☐ No

If YES, for what reason(s) does the responsible party consider this a major release?

Spill calculation determined the spill volume to be 157.91 (See Attachment 1)

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

No

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Joe TouvarTitle: Manager, Production OperationsSignature: Joe TouvarDate: 1-17-19email: jtouvar@rend-stevens.comTelephone: 575-390-2425

OCD Only

Received by: _____

Date: _____

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|-------------------------------------|---|-------------------------------------|------------|-------------------------------------|---|-------------------------------------|------------------------------|-------------------------------------|---|-------------------------------------|---------------------------|-------------------------------------|--|-------------------------------------|-------------------------|-------------------------------------|--|
| Form C-141 Page 4 | State of New Mexico Oil Conservation Division | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">Incident ID</td><td style="width: 50%;"></td></tr> <tr><td>District RP</td><td></td></tr> <tr><td>Facility ID</td><td></td></tr> </table> | Incident ID | | District RP | | Facility ID | | | | | | | | | | | | | |
| Incident ID | | | | | | | | | | | | | | | | | | | | |
| District RP | | | | | | | | | | | | | | | | | | | | |
| Facility ID | | | | | | | | | | | | | | | | | | | | |
| <h2 style="margin: 0;">Site Assessment/Characterization</h2> <p style="font-size: small; margin: 0;">This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</p> | | | | | | | | | | | | | | | | | | | | |
| <p>What is the shallowest depth to groundwater beneath the area affected by the release?</p> <p>Did this release impact groundwater or surface water?</p> <p>Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?</p> <p>Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?</p> <p>Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?</p> <p>Are the lateral extents of the release within 300 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?</p> <p>Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?</p> <p>Are the lateral extents of the release within unincorporated municipal boundaries or within a defined municipal fresh water well field?</p> <p>Are the lateral extents of the release within 300 feet of a wetland?</p> <p>Are the lateral extents of the release overlying a subsurface mine?</p> <p>Are the lateral extents of the release overlying an unstable area such as karst geology?</p> <p>Are the lateral extents of the release within a 100-year floodplain?</p> <p>Did the release impact areas not on an exploration, development, production, or storage site?</p> | | <p>246 (ft bgs)</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> | | | | | | | | | | | | | | | | | | |
| <p>Attach a comprehensive report (electronic submissions 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> | | | | | | | | | | | | | | | | | | | | |
| <p>Characterization Report Checklist: Each of the following items must be included in the report.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td><input checked="" type="checkbox"/></td><td>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Field data</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Data table of soil contaminant concentration data</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Depth to water determination</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Determination of water sources and significant watercourses within 1/2 mile of the lateral extents of the release</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Boring or excavation logs</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Photographs including date and GIS information</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Topographic/Aerial maps</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Laboratory data including chain of custody</td></tr> </table> | | | <input checked="" type="checkbox"/> | Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. | <input checked="" type="checkbox"/> | Field data | <input checked="" type="checkbox"/> | Data table of soil contaminant concentration data | <input checked="" type="checkbox"/> | Depth to water determination | <input checked="" type="checkbox"/> | Determination of water sources and significant watercourses within 1/2 mile of the lateral extents of the release | <input checked="" type="checkbox"/> | Boring or excavation logs | <input checked="" type="checkbox"/> | Photographs including date and GIS information | <input checked="" type="checkbox"/> | Topographic/Aerial maps | <input checked="" type="checkbox"/> | Laboratory data including chain of custody |
| <input checked="" type="checkbox"/> | Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Field data | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Data table of soil contaminant concentration data | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Depth to water determination | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Determination of water sources and significant watercourses within 1/2 mile of the lateral extents of the release | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Boring or excavation logs | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Photographs including date and GIS information | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Topographic/Aerial maps | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Laboratory data including chain of custody | | | | | | | | | | | | | | | | | | | |
| <p>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. Application ID</p> | | | | | | | | | | | | | | | | | | | | |
| <p>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.</p> | | | | | | | | | | | | | | | | | | | | |
| <p>Printed Name: <u>Joe Touvar</u> Title: <u>Manager, Production & Operations</u></p> <p>Signature: <u>[Signature]</u> Date: <u>1-17-19</u> email: <u></u></p> <p><u>STOUVAR@FACI-STEVENSON.COM</u> Telephone: <u>575-390-2425</u></p> | | | | | | | | | | | | | | | | | | | | |
| <p>OCD Only</p> <p>Received by: _____ Date: _____</p> | | | | | | | | | | | | | | | | | | | | |

*Correction to Site Assessment/ Characterization: Saragossa 10 State #2 is not within a 100-year flood plain. Please see Attachment #9.

| | |
|----------------|--|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Joe TovarTitle: Manager, Production and OperationsSignature: Date: 02/27/2020email: jtovar@read-stevens.comTelephone: (575) 390-2425
OCD Only

Received by: _____ Date: _____

☐ Approved

 ☐ Approved with Attached Conditions of Approval

 ☐ Denied

 ☐ Deferral Approved

Signature: _____

Date: _____

State of New Mexico
Oil Conservation Division

| | |
|----------------|--|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

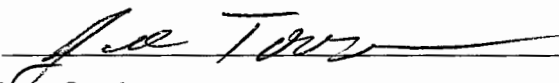
Closure

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: Joe Tovar Title: Manager, Production and Operations
 Signature:  Date: 02/27/2020
 email: jtovar@read-stevens.com Telephone: (575) 390-2425

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: _____