

# Release Characterization Workplan for Heisenberg #007H

**REVIEWED**

By Olivia Yu at 8:32 am, Apr 03, 2018

Preliminary data accepted  
for 1RP-4879.  
Horizontal and vertical  
delineation need to be  
completed for areas  
represented by SP13,  
SP14, and SP18.

Prepared by: Ryan Millunzi, Microbiologist, R.E.X. LLC, [ryan@oilandsaltremediation.com](mailto:ryan@oilandsaltremediation.com), (936)-648-7549



**Prepared For:**  
Steward Energy II, LLC  
1354 US-82  
Plains, TX 79355

**Prepared By:**  
Remediation & Environmental Xperts, LLC  
2903 N. Birdwell Lane  
Big Spring, TX 79720

March 14, 2018

## Nature of Release

On November 20, 2017 at 7:15 am CST, an unauthorized release of an estimated 80 barrels, consisting of a mixture of oil and water, occurred at the oil well 30-025-43754 Heisenberg State Com #007H. See *Table 1* below for information pertaining to the well.

***Table 1: 30-025-43754 Heisenberg State Com #007H<sup>1</sup>***

|                          |                                 |
|--------------------------|---------------------------------|
| <i>Operator:</i>         | [371682] Steward Energy II, LLC |
| <i>Well Type:</i>        | Oil                             |
| <i>Work Type:</i>        | New                             |
| <i>Surface Location:</i> | J-04-14S-38E 2040 FSL 1450FEL   |
| <i>Lat/Long:</i>         | 33.1317966, -103.0981685        |

<sup>1</sup>Information obtained from the NM OCD Oil and Gas Map available at the OCD GIS website.

Upon discovery of the unauthorized release immediate notice was given to Olivia Yu, of the New Mexico Oil Conservation District 1. The cause of the release was the failure of a 3/8-inch stainless steel nipple on the wellhead. The well was shut down and shut in, the location closed off and the appropriate calls were made as required to report the release and begin cleanup. Immediate cleanup efforts consisted of the use of a backhoe in order to build berms and further contain the spill. A vacuum truck was brought in to recover any fluids spilled. Of the estimated 80 barrels released, it was also estimated that all 80 barrels were recovered. The clear majority of the release remained on the surface of the caliche pad surrounding the well head. The only portion making it off the pad occurred in the form of a mist. The total area affected by the release is 16.75 acres, the total area of the pad affected is 0.497 acres. Refer to *Table 2*, on page 3, for the spatial data pertaining to the spill boundary perimeter.

***Table 2: GPS Coordinates<sup>1</sup>***

| <i>Soil Sample Locations</i> | <i>Latitude</i> | <i>Longitude</i> |
|------------------------------|-----------------|------------------|
| <i>Sample Location #1</i>    | 33.13263        | -103.097325      |
| <i>Sample Location #2</i>    | 33.132839       | -103.096548      |
| <i>Sample Location #3</i>    | 33.133061       | -103.095763      |
| <i>Sample Location #4</i>    | 33.132995       | -103.094975      |
| <i>Sample Location #5</i>    | 33.132527       | -103.096126      |
| <i>Sample Location #6</i>    | 33.131996       | -103.096818      |
| <i>Sample Location #7</i>    | 33.132058       | -103.097322      |
| <i>Sample Location #8</i>    | 33.133956       | -103.096669      |
| <i>Sample Location #9</i>    | 33.133798       | -103.093852      |
| <i>Sample Location #10</i>   | 33.132045       | -103.094352      |
| <i>Sample Location #11</i>   | 33.131215       | -103.098293      |
| <i>Sample Location #12</i>   | 33.131855       | -103.098992      |
| <i>Sample Location #13</i>   | 33.13203        | -103.09815       |
| <i>Sample Location #14</i>   | 33.13183        | -103.09836       |
| <i>Sample Location #15</i>   | 33.13215        | -103.0983        |
| <i>Sample Location #16</i>   | 33.13199        | -103.09858       |
| <i>Sample Location #17</i>   | 33.13172        | -103.09774       |
| <i>Sample Location #18</i>   | 33.13217        | -103.09781       |
| <i>Sample Location #19</i>   | 33.13237        | -103.09823       |
| <i>Sample Location #20</i>   | 33.13168        | -103.09805       |
| <i>Well Location</i>         | 33.131987       | -103.098439      |

<sup>1</sup>All spatial data taken on location with GPS device.

## Horizontal Delineation of Soil Impacts

Horizontal delineation of soil impacts occurred in each of the four cardinal compass directions and occurred within the impacted area and beyond, this can be confirmed by the spatial data within *Table 2*. Adsorbed soil contamination was characterized for the following constituents using the specified method: benzene, toluene, ethylbenzene, and total xylenes by method EPA 8021B, total petroleum hydrocarbons by method TPH Texas1005, and for chlorides by method EPA 300. The results of the adsorbed soil contamination are characterized within *Table 3*.

**Table 3: Analytical Data for Heisenberg 7H<sup>1</sup>**

| <u>Sample</u>             | <u>TPH<sup>2</sup></u> | <u>Chloride</u> | <u>Benzene</u> | <u>Toluene</u> | <u>Ethylbenzene</u> | <u>Total Xylenes</u> |
|---------------------------|------------------------|-----------------|----------------|----------------|---------------------|----------------------|
| <i>Sample #1 Surface</i>  | 54.9                   | 123.0           | <0.00199       | <0.00199       | <0.00199            | <0.00199             |
| <i>Sample #1 12"</i>      | <24.9                  | 22.4            | <0.00200       | <0.00200       | <0.00200            | <0.00200             |
| <i>Sample #2 Surface</i>  | 31.6                   | 129.0           | <0.00201       | <0.00201       | <0.00201            | <0.00201             |
| <i>Sample #2 12"</i>      | <25.0                  | 22.6            | <0.00202       | <0.00202       | <0.00202            | <0.00202             |
| <i>Sample #3 Surface</i>  | <24.9                  | 71.8            | <0.00200       | <0.00200       | <0.00200            | <0.00200             |
| <i>Sample #3 12"</i>      | <25.0                  | 9.4             | <0.00199       | <0.00199       | <0.00199            | <0.00199             |
| <i>Sample #4 Surface</i>  | <24.9                  | 13.4            | <0.00200       | <0.00200       | <0.00200            | <0.00200             |
| <i>Sample #4 12"</i>      | <25.0                  | <4.98           | <0.00202       | <0.00202       | <0.00202            | <0.00202             |
| <i>Sample #5 Surface</i>  | 33.5                   | 32.0            | <0.00200       | <0.00200       | <0.00200            | <0.00200             |
| <i>Sample #5 12"</i>      | <25.0                  | 5.9             | <0.01000       | <0.01000       | <0.01000            | <0.01000             |
| <i>Sample #6 Surface</i>  | 37.6                   | 76.7            | <0.01000       | <0.01000       | <0.01000            | <0.01000             |
| <i>Sample #6 12"</i>      | <25.0                  | <4.97           | <0.01000       | <0.01000       | <0.01000            | <0.01000             |
| <i>Sample #7 Surface</i>  | 86.1                   | 112.0           | <0.01000       | <0.01000       | <0.01000            | <0.01000             |
| <i>Sample #7 12"</i>      | <24.9                  | <4.99           | <0.01000       | <0.01000       | <0.01000            | <0.01000             |
| <i>Sample #8 Surface</i>  | <25.0                  | 21.8            | <0.01000       | <0.01000       | <0.01000            | <0.01000             |
| <i>Sample #8 12"</i>      | <25.0                  | <4.94           | <0.01000       | <0.01000       | <0.01000            | <0.01000             |
| <i>Sample #9 Surface</i>  | <4.99                  | <25.0           | <0.01000       | <0.01000       | <0.01000            | <0.01000             |
| <i>Sample #9 12"</i>      | <24.9                  | <4.97           | <0.01000       | <0.01000       | <0.01000            | <0.01000             |
| <i>Sample #10 Surface</i> | <25.0                  | 6.45            | <0.01000       | <0.01000       | <0.01000            | <0.01000             |
| <i>Sample #10 12"</i>     | <25.0                  | <4.97           | <0.01000       | <0.01000       | <0.01000            | <0.01000             |
| <i>Sample #11 Surface</i> | <24.9                  | 93.3            | <0.01000       | <0.01000       | <0.01000            | <0.01000             |
| <i>Sample #11 12"</i>     | <25.0                  | 321.0           | <0.01000       | <0.01000       | <0.01000            | <0.01000             |
| <i>Sample #12 Surface</i> | <25.0                  | <4.94           | <0.01000       | <0.01000       | <0.01000            | <0.01000             |
| <i>Sample #12 12"</i>     | <24.9                  | <4.92           | <0.01000       | <0.01000       | <0.01000            | <0.01000             |
| <i>Sample #13 Surface</i> | 5490                   | 238000          | <0.00201       | <0.00201       | 0.00331             | <0.00201             |
| <i>Sample #13 12"</i>     | <15.0                  | 4670            | <0.00199       | <0.00199       | 0.00274             | <0.00199             |
| <i>Sample #14 Surface</i> | 6190                   | 322             | <0.00200       | <0.00200       | <0.00200            | <0.00200             |
| <i>Sample #14 12"</i>     | 3750                   | 171             | <0.00202       | <0.00202       | <0.00202            | <0.00202             |
| <i>Sample #15 Surface</i> | 410                    | 169             | <0.00201       | <0.00201       | <0.00201            | <0.00201             |
| <i>Sample #15 12"</i>     | <15.0                  | 128             | <0.00201       | <0.00201       | <0.00201            | <0.00201             |
| <i>Sample #16 Surface</i> | 144                    | 123             | <0.00199       | <0.00199       | <0.00199            | <0.00199             |
| <i>Sample #16 12"</i>     | <15.0                  | 12.8            | <0.00199       | <0.00199       | <0.00199            | <0.00199             |
| <i>Sample #17 Surface</i> | 103                    | 133             | <0.00198       | <0.00198       | <0.00198            | <0.00198             |
| <i>Sample #17 12"</i>     | <15.0                  | 8.85            | <0.00202       | <0.00202       | <0.00202            | <0.00202             |
| <i>Sample #18 Surface</i> | 926                    | 2990            | <0.00200       | 0.00552        | 0.0189              | 0.0493               |
| <i>Sample #18 12"</i>     | 86.2                   | 576             | <0.00202       | <0.00202       | 0.00772             | 0.0215               |
| <i>Sample #19 Surface</i> | 121                    | 578             | <0.00198       | <0.00198       | <0.00198            | <0.00198             |
| <i>Sample #19 12"</i>     | <15.0                  | 16.0            | <0.00201       | <0.00201       | <0.00201            | <0.00201             |
| <i>Sample #20 Surface</i> | <15.0                  | 186             | <0.00202       | <0.00202       | <0.00202            | <0.00202             |
| <i>Sample #20 12"</i>     | <4.97                  | <15.0           | <0.00199       | <0.00199       | <0.00199            | <0.00199             |

<sup>1</sup>The above table displays all values provided to REX, LLC by Xenco Laboratories. See attached *Analytical Report 569997* and *Analytical Report 572250*.

<sup>2</sup> All data is in units of ppm.

## Vertical Delineation of Soil Impacts

Vertical delineation of soil impacts occurred in each of the four cardinal compass directions and occurred within the impacted area and beyond, this can be confirmed by the spatial data within *Table 2*. Vertical delineation of soil impacts took place to a depth of 12 inches from the surface. Adsorbed soil contamination was characterized for the following constituents using the specified method: benzene, toluene, ethylbenzene, and total xylenes by method EPA 8021B, total petroleum hydrocarbons by method TPH Texas1005, and for chlorides by method EPA 300. The results of the adsorbed soil contamination are characterized above, within *Table 3*.

## Delineation of Ground Water Impacts

According to the USGS Caprock CRN well, the groundwater depth, as of November 30, 2017, is 60.05 feet. This information was obtained from the USGS National Water Information System: Web interface. The lateral distance to the nearest surface water was measured as 1,785 feet. The nearest surface water is a small (3,227 square feet) pond. There are two water sources in the vicinity of the affected area, both are a pivot irrigation system, one is located to the north in the affected wheat field and one is located to the east in the affected cotton field. The pivot in the wheat field is measured to have a lateral distance of 1,084 feet, and the cotton field pivot is 993 feet. No tests were conducted to determine groundwater contamination as the depth of the groundwater is greater than the specified 50 feet.

## Other Adverse Impacts

As a result of this unauthorized release two agricultural fields and one CRP field were affected within the spill zone. Please refer to *Map 1* for a visual representation of the release area. All three fields were exposed to a very light mist of oil and water from the release. This exposure is documented via the images taken at the release site on December 1, 2017.

## Requested Equivalency of Methods

In *Analytical Report 569997*, the TPH samples were analyzed using TX1005 instead of the required EPA 8015. Per the request of Olivia Yu, this section is intended to provide an equivalency of methods between the two. Xenco Laboratories' Sr. Corp. Technical Director, Dr. Blair Leftwich, MPH, DSc, provided this statement regarding the matter:

*"EPA 8015 and TX1005 are run exactly the same way. Both are extracted by pentane and tested by GC/FID. The curves are the same and the break down of carbon ranges are the same and the break down of carbon ranges are the same, C6-12 GRO, C12-28 DRO, and C28-35 ORO. Some labs may run C6-C12 GRO by purge and trap for 8015 like BTEX. Purge and trap has lower detection limits, but for high concentrations, get the same results as pentane extraction."*

## Release Site Images



Above left and right: affected cotton field, facing east from oil well.



Above left: close up of affected cotton. Above right: affected cotton, facing west towards oil well.



Above left: affected wheat, facing southwest towards oil well. Above right: close up of affected wheat



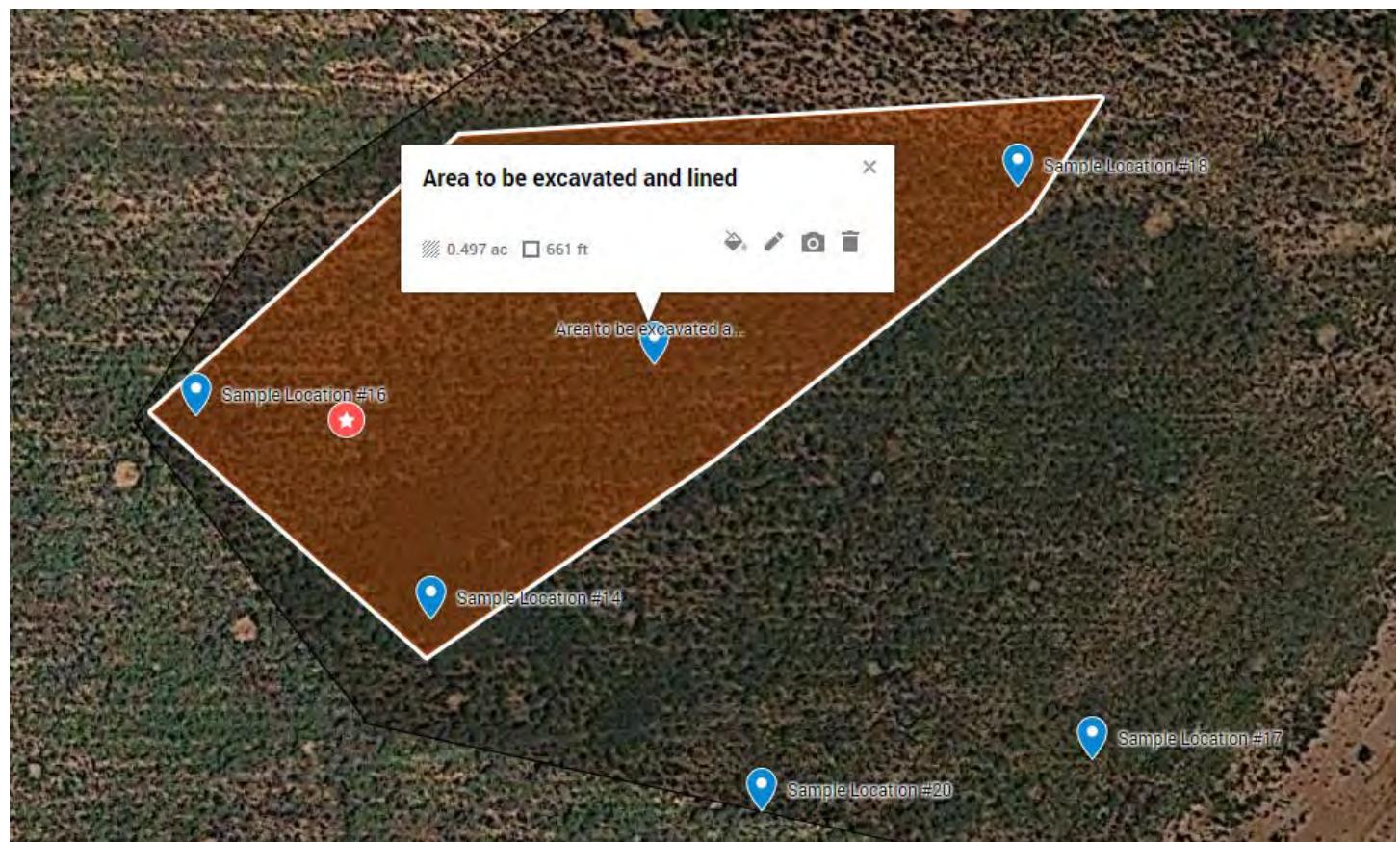
Above: Wellhead facing north, area to be excavated located to the right of the wellhead.

## Corrective Action

Recommended corrective action for this release includes the following:

- Excavation of a 0.497 acre area to a depth of 12"
- Placement of a 20 mil polyethylene liner in the bottom of the excavation
- Disposal of all soil excavated at an approved OCD facility
- Backfilling of the excavation with clean fill material and wheel compacting to grade

The Heisenberg State Com #007H is an actively producing oil well, with underground lines, various equipment on site, workover rigs, trucks, etc. Due to these circumstances, Steward Energy II would request for deferred corrective action of all excavation activities until the well has undergone plugging and abandonment procedures and excavation can be conducted in a safer environment. Please reference the below map to note the location of the proposed 0.497 acre area to be excavated. This area is located entirely on the caliche pad near the wellhead, none of the soil samples taken off the pad returned contaminated levels.



30-025-43754 Heisenberg State Com #007H [317665]  
Operator: [371682] Steward Energy II, LLC  
Well Type: Oil  
Work Type: New  
Surface Location: J-04-14S-38E 2040 FSL 1450 FEL  
Lat/Long: 33.1317966, -103.0981685

# Map 1: Heisenberg State Com #007H



This map is intended to aid in the characterization of the release that occurred on 11/20/2017, at the oil well, Heisenberg State Com #007H.

## Legend

| Symbol | Description                  |   |
|--------|------------------------------|---|
|        | Agricultural Field           | Note: All spatial data taken in field with GPS device. See GIS file for more information. |
|        | Release Boundary             |   |
|        | Area to be excavated & lined |   |
|        | Soil Sample Point            |   |
|        | Origin of Spill              |   |

# **Analytical Report 569997**

**for**

## **Remediation and Environmental Xperts, LLC**

**Project Manager: Rex Rainey**

**Steward**

**05-DEC-17**

Collected By: Client



**1211 W. Florida Ave, Midland TX 79701**

Xenco-Houston (EPA Lab code: TX00122):  
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):  
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)  
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)  
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)  
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

05-DEC-17

Project Manager: **Rex Rainey**  
**Remediation and Environmental Xperts, LLC**  
P.O. Box 2699  
Big Spring, TX 79720

Reference: XENCO Report No(s): **569997**  
**Steward**  
Project Address: Heisenberg State Com 7H

**Rex Rainey:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 569997. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 569997 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



**Holly Taylor**

Project Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.*

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Steward**

| <b>Sample Id</b> | <b>Matrix</b> | <b>Date Collected</b> | <b>Sample Depth</b> | <b>Lab Sample Id</b> |
|------------------|---------------|-----------------------|---------------------|----------------------|
| Spot 1           | S             | 12-01-17 09:30        | Surface             | 569997-001           |
| Spot 1           | S             | 12-01-17 10:00        | 12 In               | 569997-002           |
| Spot 2           | S             | 12-01-17 10:30        | Surface             | 569997-003           |
| Spot 2           | S             | 12-01-17 11:00        | 12 In               | 569997-004           |
| Spot 3           | S             | 12-01-17 11:30        | Surface             | 569997-005           |
| Spot 3           | S             | 12-01-17 12:00        | 12 In               | 569997-006           |
| Spot 4           | S             | 12-01-17 12:30        | Surface             | 569997-007           |
| Spot 4           | S             | 12-01-17 13:00        | 12 In               | 569997-008           |
| Spot 5           | S             | 12-01-17 13:30        | Surface             | 569997-009           |
| Spot 5           | S             | 12-01-17 14:00        | 12 In               | 569997-010           |
| Spot 6           | S             | 12-01-17 09:00        | Surf                | 569997-011           |
| Spot 6           | S             | 12-01-17 09:30        | 12 In               | 569997-012           |
| Spot 7           | S             | 12-01-17 10:00        | Surf                | 569997-013           |
| Spot 7           | S             | 12-01-17 10:30        | 12 In               | 569997-014           |
| Spot 8           | S             | 12-01-17 11:00        | Surf                | 569997-015           |
| Spot 8           | S             | 12-01-17 11:30        | 12 In               | 569997-016           |
| Spot 9           | S             | 12-01-17 12:00        | Surf                | 569997-017           |
| Spot 9           | S             | 12-01-17 12:30        | 12 In               | 569997-018           |
| Spot 10          | S             | 12-01-17 13:00        | Surf                | 569997-019           |
| Spot 10          | S             | 12-01-17 13:30        | 12 In               | 569997-020           |
| Spot 12          | S             | 12-01-17 14:30        | Surf                | 569997-021           |
| Spot 12          | S             | 12-01-17 15:00        | 12 In               | 569997-022           |
| Spot 11          | S             | 12-01-17 15:30        | Surf                | 569997-023           |
| Spot 11          | S             | 12-01-17 16:00        | 12 In               | 569997-024           |



## CASE NARRATIVE

**Client Name:** Remediation and Environmental Xperts, LLC

**Project Name:** Steward

Project ID:

Work Order Number(s): 569997

Report Date: 05-DEC-17

Date Received: 12/04/2017

---

### Sample receipt non conformances and comments:

#### Sample receipt non conformances and comments per sample:

None

#### Analytical non conformances and comments:

Batch: LBA-3034895 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3034937 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 569997-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). o-Xylene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 569997-010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021, -022, -023, -024.

The Laboratory Control Sample for o-Xylene is within laboratory Control Limits, therefore the data was accepted.

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 1**  
Lab Sample Id: 569997-001

Matrix: Soil  
Date Collected: 12.01.17 09.30

Date Received: 12.04.17 10.50  
Sample Depth: Surface

Analytical Method: Chloride by EPA 300  
Tech: MNV  
Analyst: MNV  
Seq Number: 3034981

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 123    | 4.94 | mg/kg | 12.04.17 22.58 |      | 1   |

Analytical Method: TPH by Texas1005  
Tech: ARM  
Analyst: ARM  
Seq Number: 3034997

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight

| Parameter                                | Cas Number | Result      | RL    | Units  | Analysis Date  | Flag | Dil |
|--|------------|-------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons       | PHC612     | <25.0       | 25.0  | mg/kg  | 12.04.17 14.19 | U    | 1   |
| <b>C12-C28 Diesel Range Hydrocarbons</b> | PHCG1228   | <b>54.9</b> | 25.0  | mg/kg  | 12.04.17 14.19 |      | 1   |
| C28-C35 Oil Range Hydrocarbons           | PHCG2835   | <25.0       | 25.0  | mg/kg  | 12.04.17 14.19 | U    | 1   |
| <b>Total TPH 1005</b>                    | PHC635     | <b>54.9</b> | 25.0  | mg/kg  | 12.04.17 14.19 |      | 1   |
| Surrogate                                | Cas Number | % Recovery  | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                           | 111-85-3   | 91          | %     | 70-135 | 12.04.17 14.19 |      |     |
| o-Terphenyl                              | 84-15-1    | 88          | %     | 70-130 | 12.04.17 14.19 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 1**  
 Lab Sample Id: 569997-001

Matrix: **Soil**  
 Date Collected: 12.01.17 09.30

Date Received: 12.04.17 10.50  
 Sample Depth: Surface

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: 12.04.17 11.15

Basis: **Wet Weight**

Seq Number: 3034895

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.00199          | 0.00199           | mg/kg        | 12.04.17 14.04 | U                    | 1           |
| Toluene              | 108-88-3    | <0.00199          | 0.00199           | mg/kg        | 12.04.17 14.04 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.00199          | 0.00199           | mg/kg        | 12.04.17 14.04 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.00398          | 0.00398           | mg/kg        | 12.04.17 14.04 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.00199          | 0.00199           | mg/kg        | 12.04.17 14.04 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.00199          | 0.00199           | mg/kg        | 12.04.17 14.04 | U                    | 1           |
| Total BTEX           |             | <0.00199          | 0.00199           | mg/kg        | 12.04.17 14.04 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 89                | %            | 80-120         | 12.04.17 14.04       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 94                | %            | 80-120         | 12.04.17 14.04       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 1**  
 Lab Sample Id: 569997-002

Matrix: **Soil**  
 Date Collected: 12.01.17 10.00

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034981

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 22.4   | 4.97 | mg/kg | 12.05.17 10.01 |      | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034997

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <24.9      | 24.9  | mg/kg  | 12.04.17 15.20 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <24.9      | 24.9  | mg/kg  | 12.04.17 15.20 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <24.9      | 24.9  | mg/kg  | 12.04.17 15.20 | U    | 1   |
| Total TPH 1005                     | PHC635     | <24.9      | 24.9  | mg/kg  | 12.04.17 15.20 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 99         | %     | 70-135 | 12.04.17 15.20 |      |     |
| o-Terphenyl                        | 84-15-1    | 98         | %     | 70-130 | 12.04.17 15.20 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 1**  
 Lab Sample Id: 569997-002

Matrix: **Soil**  
 Date Collected: 12.01.17 10.00

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: 12.04.17 11.15

Basis: **Wet Weight**

Seq Number: 3034895

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.00200          | 0.00200           | mg/kg        | 12.04.17 14.23 | U                    | 1           |
| Toluene              | 108-88-3    | <0.00200          | 0.00200           | mg/kg        | 12.04.17 14.23 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.00200          | 0.00200           | mg/kg        | 12.04.17 14.23 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.00400          | 0.00400           | mg/kg        | 12.04.17 14.23 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.00200          | 0.00200           | mg/kg        | 12.04.17 14.23 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.00200          | 0.00200           | mg/kg        | 12.04.17 14.23 | U                    | 1           |
| Total BTEX           |             | <0.00200          | 0.00200           | mg/kg        | 12.04.17 14.23 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 89                | %            | 80-120         | 12.04.17 14.23       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 95                | %            | 80-120         | 12.04.17 14.23       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 2**  
 Lab Sample Id: 569997-003

Matrix: Soil  
 Date Collected: 12.01.17 10.30

Date Received: 12.04.17 10.50  
 Sample Depth: Surface

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034981

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result     | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|------------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <b>129</b> | 4.96 | mg/kg | 12.05.17 10.10 |      | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034997

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                                | Cas Number | Result      | RL    | Units  | Analysis Date  | Flag | Dil |
|--|------------|-------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons       | PHC612     | <24.9       | 24.9  | mg/kg  | 12.04.17 15.40 | U    | 1   |
| <b>C12-C28 Diesel Range Hydrocarbons</b> | PHCG1228   | <b>31.6</b> | 24.9  | mg/kg  | 12.04.17 15.40 |      | 1   |
| C28-C35 Oil Range Hydrocarbons           | PHCG2835   | <24.9       | 24.9  | mg/kg  | 12.04.17 15.40 | U    | 1   |
| <b>Total TPH 1005</b>                    | PHC635     | <b>31.6</b> | 24.9  | mg/kg  | 12.04.17 15.40 |      | 1   |
| Surrogate                                | Cas Number | % Recovery  | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                           | 111-85-3   | 86          | %     | 70-135 | 12.04.17 15.40 |      |     |
| o-Terphenyl                              | 84-15-1    | 85          | %     | 70-130 | 12.04.17 15.40 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 2**  
 Lab Sample Id: 569997-003

Matrix: **Soil**  
 Date Collected: 12.01.17 10.30

Date Received: 12.04.17 10.50  
 Sample Depth: Surface

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: 12.04.17 11.15

Basis: **Wet Weight**

Seq Number: 3034895

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.00201          | 0.00201           | mg/kg        | 12.04.17 14.42 | U                    | 1           |
| Toluene              | 108-88-3    | <0.00201          | 0.00201           | mg/kg        | 12.04.17 14.42 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.00201          | 0.00201           | mg/kg        | 12.04.17 14.42 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.00402          | 0.00402           | mg/kg        | 12.04.17 14.42 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.00201          | 0.00201           | mg/kg        | 12.04.17 14.42 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.00201          | 0.00201           | mg/kg        | 12.04.17 14.42 | U                    | 1           |
| Total BTEX           |             | <0.00201          | 0.00201           | mg/kg        | 12.04.17 14.42 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 91                | %            | 80-120         | 12.04.17 14.42       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 95                | %            | 80-120         | 12.04.17 14.42       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 2**  
 Lab Sample Id: 569997-004

Matrix: Soil  
 Date Received: 12.04.17 10.50  
 Date Collected: 12.01.17 11.00  
 Sample Depth: 12 In

Analytical Method: Chloride by EPA 300  
 Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 12.04.17 17.00

Basis: Wet Weight

Seq Number: 3034981

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 22.6   | 4.92 | mg/kg | 12.05.17 10.18 |      | 1   |

Analytical Method: TPH by Texas1005  
 Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.04.17 11.00

Basis: Wet Weight

Seq Number: 3034997

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <25.0      | 25.0  | mg/kg  | 12.04.17 16.01 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <25.0      | 25.0  | mg/kg  | 12.04.17 16.01 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <25.0      | 25.0  | mg/kg  | 12.04.17 16.01 | U    | 1   |
| Total TPH 1005                     | PHC635     | <25.0      | 25.0  | mg/kg  | 12.04.17 16.01 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 93         | %     | 70-135 | 12.04.17 16.01 |      |     |
| o-Terphenyl                        | 84-15-1    | 92         | %     | 70-130 | 12.04.17 16.01 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 2**  
 Lab Sample Id: 569997-004

Matrix: **Soil**  
 Date Collected: 12.01.17 11.00

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: 12.04.17 11.15

Basis: **Wet Weight**

Seq Number: 3034895

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.00202          | 0.00202           | mg/kg        | 12.04.17 15.00 | U                    | 1           |
| Toluene              | 108-88-3    | <0.00202          | 0.00202           | mg/kg        | 12.04.17 15.00 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.00202          | 0.00202           | mg/kg        | 12.04.17 15.00 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.00404          | 0.00404           | mg/kg        | 12.04.17 15.00 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.00202          | 0.00202           | mg/kg        | 12.04.17 15.00 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.00202          | 0.00202           | mg/kg        | 12.04.17 15.00 | U                    | 1           |
| Total BTEX           |             | <0.00202          | 0.00202           | mg/kg        | 12.04.17 15.00 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 1,4-Difluorobenzene  |             | 540-36-3          | 96                | %            | 80-120         | 12.04.17 15.00       |             |
| 4-Bromofluorobenzene |             | 460-00-4          | 89                | %            | 80-120         | 12.04.17 15.00       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 3**  
 Lab Sample Id: 569997-005

Matrix: Soil  
 Date Received: 12.04.17 10.50  
 Date Collected: 12.01.17 11.30  
 Sample Depth: Surface

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 71.8   | 4.95 | mg/kg | 12.05.17 10.47 |      | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034997

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <24.9      | 24.9  | mg/kg  | 12.04.17 16.21 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <24.9      | 24.9  | mg/kg  | 12.04.17 16.21 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <24.9      | 24.9  | mg/kg  | 12.04.17 16.21 | U    | 1   |
| Total TPH 1005                     | PHC635     | <24.9      | 24.9  | mg/kg  | 12.04.17 16.21 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 95         | %     | 70-135 | 12.04.17 16.21 |      |     |
| o-Terphenyl                        | 84-15-1    | 97         | %     | 70-130 | 12.04.17 16.21 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 3**  
 Lab Sample Id: 569997-005

Matrix: **Soil**  
 Date Collected: 12.01.17 11.30

Date Received: 12.04.17 10.50  
 Sample Depth: Surface

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: 12.04.17 11.15

Basis: **Wet Weight**

Seq Number: 3034895

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.00200          | 0.00200           | mg/kg        | 12.04.17 15.19 | U                    | 1           |
| Toluene              | 108-88-3    | <0.00200          | 0.00200           | mg/kg        | 12.04.17 15.19 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.00200          | 0.00200           | mg/kg        | 12.04.17 15.19 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.00401          | 0.00401           | mg/kg        | 12.04.17 15.19 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.00200          | 0.00200           | mg/kg        | 12.04.17 15.19 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.00200          | 0.00200           | mg/kg        | 12.04.17 15.19 | U                    | 1           |
| Total BTEX           |             | <0.00200          | 0.00200           | mg/kg        | 12.04.17 15.19 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 1,4-Difluorobenzene  |             | 540-36-3          | 99                | %            | 80-120         | 12.04.17 15.19       |             |
| 4-Bromofluorobenzene |             | 460-00-4          | 93                | %            | 80-120         | 12.04.17 15.19       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 3**  
 Lab Sample Id: 569997-006

Matrix: **Soil**  
 Date Collected: 12.01.17 12.00

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 9.37   | 4.97 | mg/kg | 12.05.17 11.05 |      | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034997

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <25.0      | 25.0  | mg/kg  | 12.04.17 16.41 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <25.0      | 25.0  | mg/kg  | 12.04.17 16.41 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <25.0      | 25.0  | mg/kg  | 12.04.17 16.41 | U    | 1   |
| Total TPH 1005                     | PHC635     | <25.0      | 25.0  | mg/kg  | 12.04.17 16.41 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 94         | %     | 70-135 | 12.04.17 16.41 |      |     |
| o-Terphenyl                        | 84-15-1    | 97         | %     | 70-130 | 12.04.17 16.41 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 3**  
 Lab Sample Id: 569997-006

Matrix: **Soil**  
 Date Collected: 12.01.17 12.00

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: 12.04.17 11.15

Basis: **Wet Weight**

Seq Number: 3034895

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.00199          | 0.00199           | mg/kg        | 12.04.17 15.39 | U                    | 1           |
| Toluene              | 108-88-3    | <0.00199          | 0.00199           | mg/kg        | 12.04.17 15.39 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.00199          | 0.00199           | mg/kg        | 12.04.17 15.39 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.00398          | 0.00398           | mg/kg        | 12.04.17 15.39 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.00199          | 0.00199           | mg/kg        | 12.04.17 15.39 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.00199          | 0.00199           | mg/kg        | 12.04.17 15.39 | U                    | 1           |
| Total BTEX           |             | <0.00199          | 0.00199           | mg/kg        | 12.04.17 15.39 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 91                | %            | 80-120         | 12.04.17 15.39       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 96                | %            | 80-120         | 12.04.17 15.39       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 4**  
 Lab Sample Id: 569997-007

Matrix: Soil  
 Date Collected: 12.01.17 12.30

Date Received: 12.04.17 10.50  
 Sample Depth: Surface

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 13.4   | 4.95 | mg/kg | 12.05.17 11.11 |      | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034997

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <24.9      | 24.9  | mg/kg  | 12.04.17 17.01 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <24.9      | 24.9  | mg/kg  | 12.04.17 17.01 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <24.9      | 24.9  | mg/kg  | 12.04.17 17.01 | U    | 1   |
| Total TPH 1005                     | PHC635     | <24.9      | 24.9  | mg/kg  | 12.04.17 17.01 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 90         | %     | 70-135 | 12.04.17 17.01 |      |     |
| o-Terphenyl                        | 84-15-1    | 88         | %     | 70-130 | 12.04.17 17.01 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 4**  
 Lab Sample Id: 569997-007

Matrix: Soil  
 Date Collected: 12.01.17 12.30

Date Received: 12.04.17 10.50  
 Sample Depth: Surface

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.04.17 11.15

Basis: Wet Weight

Seq Number: 3034895

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.00200          | 0.00200           | mg/kg        | 12.04.17 15.58 | U                    | 1           |
| Toluene              | 108-88-3    | <0.00200          | 0.00200           | mg/kg        | 12.04.17 15.58 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.00200          | 0.00200           | mg/kg        | 12.04.17 15.58 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.00399          | 0.00399           | mg/kg        | 12.04.17 15.58 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.00200          | 0.00200           | mg/kg        | 12.04.17 15.58 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.00200          | 0.00200           | mg/kg        | 12.04.17 15.58 | U                    | 1           |
| Total BTEX           |             | <0.00200          | 0.00200           | mg/kg        | 12.04.17 15.58 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 1,4-Difluorobenzene  |             | 540-36-3          | 93                | %            | 80-120         | 12.04.17 15.58       |             |
| 4-Bromofluorobenzene |             | 460-00-4          | 91                | %            | 80-120         | 12.04.17 15.58       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 4**  
 Lab Sample Id: 569997-008

Matrix: Soil  
 Date Collected: 12.01.17 13.00

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Date Prep: 12.05.17 09.00  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.98  | 4.98 | mg/kg | 12.05.17 11.16 | U    | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034997

Prep Method: TX1005P  
 % Moisture:  
 Date Prep: 12.04.17 11.00  
 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <25.0      | 25.0  | mg/kg  | 12.04.17 17.21 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <25.0      | 25.0  | mg/kg  | 12.04.17 17.21 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <25.0      | 25.0  | mg/kg  | 12.04.17 17.21 | U    | 1   |
| Total TPH 1005                     | PHC635     | <25.0      | 25.0  | mg/kg  | 12.04.17 17.21 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 83         | %     | 70-135 | 12.04.17 17.21 |      |     |
| o-Terphenyl                        | 84-15-1    | 86         | %     | 70-130 | 12.04.17 17.21 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 4**  
 Lab Sample Id: 569997-008

Matrix: Soil  
 Date Collected: 12.01.17 13.00

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.04.17 11.15

Basis: Wet Weight

Seq Number: 3034895

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.00202          | 0.00202           | mg/kg        | 12.04.17 16.17 | U                    | 1           |
| Toluene              | 108-88-3    | <0.00202          | 0.00202           | mg/kg        | 12.04.17 16.17 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.00202          | 0.00202           | mg/kg        | 12.04.17 16.17 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.00403          | 0.00403           | mg/kg        | 12.04.17 16.17 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.00202          | 0.00202           | mg/kg        | 12.04.17 16.17 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.00202          | 0.00202           | mg/kg        | 12.04.17 16.17 | U                    | 1           |
| Total BTEX           |             | <0.00202          | 0.00202           | mg/kg        | 12.04.17 16.17 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 88                | %            | 80-120         | 12.04.17 16.17       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 95                | %            | 80-120         | 12.04.17 16.17       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 5**  
Lab Sample Id: 569997-009

Matrix: Soil  
Date Collected: 12.01.17 13.30

Date Received: 12.04.17 10.50  
Sample Depth: Surface

Analytical Method: Chloride by EPA 300  
Tech: MNV  
Analyst: MNV  
Seq Number: 3034991

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight

| Parameter | Cas Number | Result      | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|-------------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <b>32.0</b> | 4.99 | mg/kg | 12.05.17 11.22 |      | 1   |

Analytical Method: TPH by Texas1005  
Tech: ARM  
Analyst: ARM  
Seq Number: 3034997

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight

| Parameter                                | Cas Number | Result      | RL    | Units  | Analysis Date  | Flag | Dil |
|--|------------|-------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons       | PHC612     | <25.0       | 25.0  | mg/kg  | 12.04.17 17.41 | U    | 1   |
| <b>C12-C28 Diesel Range Hydrocarbons</b> | PHCG1228   | <b>33.5</b> | 25.0  | mg/kg  | 12.04.17 17.41 |      | 1   |
| C28-C35 Oil Range Hydrocarbons           | PHCG2835   | <25.0       | 25.0  | mg/kg  | 12.04.17 17.41 | U    | 1   |
| <b>Total TPH 1005</b>                    | PHC635     | <b>33.5</b> | 25.0  | mg/kg  | 12.04.17 17.41 |      | 1   |
| Surrogate                                | Cas Number | % Recovery  | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                           | 111-85-3   | 83          | %     | 70-135 | 12.04.17 17.41 |      |     |
| o-Terphenyl                              | 84-15-1    | 81          | %     | 70-130 | 12.04.17 17.41 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 5** Matrix: **Soil** Date Received: 12.04.17 10.50  
 Lab Sample Id: **569997-009** Date Collected: 12.01.17 13.30 Sample Depth: Surface  
 Analytical Method: **BTEX by EPA 8021B** Prep Method: **SW5030B**  
 Tech: **ALJ** % Moisture:  
 Analyst: **ALJ** Date Prep: **12.04.17 11.15** Basis: **Wet Weight**  
 Seq Number: **3034895**

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.00200          | 0.00200           | mg/kg        | 12.04.17 16.37 | U                    | 1           |
| Toluene              | 108-88-3    | <0.00200          | 0.00200           | mg/kg        | 12.04.17 16.37 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.00200          | 0.00200           | mg/kg        | 12.04.17 16.37 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.00401          | 0.00401           | mg/kg        | 12.04.17 16.37 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.00200          | 0.00200           | mg/kg        | 12.04.17 16.37 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.00200          | 0.00200           | mg/kg        | 12.04.17 16.37 | U                    | 1           |
| Total BTEX           |             | <0.00200          | 0.00200           | mg/kg        | 12.04.17 16.37 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 90                | %            | 80-120         | 12.04.17 16.37       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 95                | %            | 80-120         | 12.04.17 16.37       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 5**  
 Lab Sample Id: 569997-010

Matrix: Soil  
 Date Collected: 12.01.17 14.00

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Date Prep: 12.05.17 09.00  
 Basis: Wet Weight

| Parameter | Cas Number | Result      | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|-------------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <b>5.87</b> | 4.99 | mg/kg | 12.05.17 11.40 |      | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034997

Prep Method: TX1005P  
 % Moisture:  
 Date Prep: 12.04.17 11.00  
 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <25.0      | 25.0  | mg/kg  | 12.04.17 18.01 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <25.0      | 25.0  | mg/kg  | 12.04.17 18.01 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <25.0      | 25.0  | mg/kg  | 12.04.17 18.01 | U    | 1   |
| Total TPH 1005                     | PHC635     | <25.0      | 25.0  | mg/kg  | 12.04.17 18.01 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 93         | %     | 70-135 | 12.04.17 18.01 |      |     |
| o-Terphenyl                        | 84-15-1    | 98         | %     | 70-130 | 12.04.17 18.01 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 5**  
 Lab Sample Id: 569997-010

Matrix: **Soil**  
 Date Collected: 12.01.17 14.00

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: 12.04.17 11.20

Basis: **Wet Weight**

Seq Number: 3034937

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 19.45 | U                    | 1           |
| Toluene              | 108-88-3    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 19.45 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 19.45 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.0200           | 0.0200            | mg/kg        | 12.04.17 19.45 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 19.45 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.0100           | 0.0100            | mg/kg        | 12.04.17 19.45 | U                    | 1           |
| Total BTEX           |             | <0.0100           | 0.0100            | mg/kg        | 12.04.17 19.45 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 85                | %            | 80-120         | 12.04.17 19.45       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 91                | %            | 80-120         | 12.04.17 19.45       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 6**  
 Lab Sample Id: 569997-011

Matrix: Soil  
 Date Collected: 12.01.17 09.00

Date Received: 12.04.17 10.50  
 Sample Depth: Surf

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Date Prep: 12.05.17 09.00  
 Basis: Wet Weight

| Parameter | Cas Number | Result      | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|-------------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <b>76.7</b> | 4.98 | mg/kg | 12.05.17 11.46 |      | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034997

Prep Method: TX1005P  
 % Moisture:  
 Date Prep: 12.04.17 11.00  
 Basis: Wet Weight

| Parameter                                | Cas Number | Result      | RL    | Units  | Analysis Date  | Flag | Dil |
|--|------------|-------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons       | PHC612     | <25.0       | 25.0  | mg/kg  | 12.04.17 19.06 | U    | 1   |
| <b>C12-C28 Diesel Range Hydrocarbons</b> | PHCG1228   | <b>37.6</b> | 25.0  | mg/kg  | 12.04.17 19.06 |      | 1   |
| C28-C35 Oil Range Hydrocarbons           | PHCG2835   | <25.0       | 25.0  | mg/kg  | 12.04.17 19.06 | U    | 1   |
| <b>Total TPH 1005</b>                    | PHC635     | <b>37.6</b> | 25.0  | mg/kg  | 12.04.17 19.06 |      | 1   |
| Surrogate                                | Cas Number | % Recovery  | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                           | 111-85-3   | 88          | %     | 70-135 | 12.04.17 19.06 |      |     |
| o-Terphenyl                              | 84-15-1    | 85          | %     | 70-130 | 12.04.17 19.06 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 6**  
 Lab Sample Id: 569997-011

Matrix: Soil  
 Date Collected: 12.01.17 09.00

Date Received: 12.04.17 10.50  
 Sample Depth: Surf

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.04.17 11.20

Basis: Wet Weight

Seq Number: 3034937

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 19.26 | U                    | 1           |
| Toluene              | 108-88-3    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 19.26 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 19.26 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.0200           | 0.0200            | mg/kg        | 12.04.17 19.26 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 19.26 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.0100           | 0.0100            | mg/kg        | 12.04.17 19.26 | U                    | 1           |
| Total BTEX           |             | <0.0100           | 0.0100            | mg/kg        | 12.04.17 19.26 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 1,4-Difluorobenzene  |             | 540-36-3          | 92                | %            | 80-120         | 12.04.17 19.26       |             |
| 4-Bromofluorobenzene |             | 460-00-4          | 93                | %            | 80-120         | 12.04.17 19.26       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 6**  
 Lab Sample Id: 569997-012

Matrix: Soil  
 Date Collected: 12.01.17 09.30

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.97  | 4.97 | mg/kg | 12.05.17 11.52 | U    | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034997

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <25.0      | 25.0  | mg/kg  | 12.04.17 19.27 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <25.0      | 25.0  | mg/kg  | 12.04.17 19.27 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <25.0      | 25.0  | mg/kg  | 12.04.17 19.27 | U    | 1   |
| Total TPH 1005                     | PHC635     | <25.0      | 25.0  | mg/kg  | 12.04.17 19.27 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 107        | %     | 70-135 | 12.04.17 19.27 |      |     |
| o-Terphenyl                        | 84-15-1    | 110        | %     | 70-130 | 12.04.17 19.27 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 6**  
 Lab Sample Id: 569997-012

Matrix: Soil  
 Date Collected: 12.01.17 09.30

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.04.17 11.20

Basis: Wet Weight

Seq Number: 3034937

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.02 | U                    | 1           |
| Toluene              | 108-88-3    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.02 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.02 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.0200           | 0.0200            | mg/kg        | 12.04.17 20.02 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.02 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.02 | U                    | 1           |
| Total BTEX           |             | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.02 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 87                | %            | 80-120         | 12.04.17 20.02       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 94                | %            | 80-120         | 12.04.17 20.02       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 7**  
 Lab Sample Id: 569997-013

Matrix: Soil  
 Date Collected: 12.01.17 10.00

Date Received: 12.04.17 10.50  
 Sample Depth: Surf

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Date Prep: 12.05.17 09.00  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 112    | 4.98 | mg/kg | 12.05.17 11.58 |      | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034997

Prep Method: TX1005P  
 % Moisture:  
 Date Prep: 12.04.17 11.00  
 Basis: Wet Weight

| Parameter                                | Cas Number | Result      | RL    | Units  | Analysis Date  | Flag | Dil |
|--|------------|-------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons       | PHC612     | <24.9       | 24.9  | mg/kg  | 12.04.17 19.48 | U    | 1   |
| <b>C12-C28 Diesel Range Hydrocarbons</b> | PHCG1228   | <b>86.1</b> | 24.9  | mg/kg  | 12.04.17 19.48 |      | 1   |
| C28-C35 Oil Range Hydrocarbons           | PHCG2835   | <24.9       | 24.9  | mg/kg  | 12.04.17 19.48 | U    | 1   |
| <b>Total TPH 1005</b>                    | PHC635     | <b>86.1</b> | 24.9  | mg/kg  | 12.04.17 19.48 |      | 1   |
| Surrogate                                | Cas Number | % Recovery  | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                           | 111-85-3   | 92          | %     | 70-135 | 12.04.17 19.48 |      |     |
| o-Terphenyl                              | 84-15-1    | 91          | %     | 70-130 | 12.04.17 19.48 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 7**  
 Lab Sample Id: 569997-013

Matrix: **Soil**  
 Date Collected: 12.01.17 10.00

Date Received: 12.04.17 10.50  
 Sample Depth: Surf

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: 12.04.17 11.20

Basis: **Wet Weight**

Seq Number: 3034937

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.21 | U                    | 1           |
| Toluene              | 108-88-3    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.21 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.21 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.0200           | 0.0200            | mg/kg        | 12.04.17 20.21 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.21 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.21 | U                    | 1           |
| Total BTEX           |             | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.21 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 91                | %            | 80-120         | 12.04.17 20.21       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 100               | %            | 80-120         | 12.04.17 20.21       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 7**  
 Lab Sample Id: 569997-014

Matrix: **Soil**  
 Date Collected: 12.01.17 10.30

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.99  | 4.99 | mg/kg | 12.05.17 12.04 | U    | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034997

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <24.9      | 24.9  | mg/kg  | 12.04.17 20.08 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <24.9      | 24.9  | mg/kg  | 12.04.17 20.08 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <24.9      | 24.9  | mg/kg  | 12.04.17 20.08 | U    | 1   |
| Total TPH 1005                     | PHC635     | <24.9      | 24.9  | mg/kg  | 12.04.17 20.08 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 94         | %     | 70-135 | 12.04.17 20.08 |      |     |
| o-Terphenyl                        | 84-15-1    | 95         | %     | 70-130 | 12.04.17 20.08 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 7**  
 Lab Sample Id: 569997-014

Matrix: **Soil**  
 Date Collected: 12.01.17 10.30

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: 12.04.17 11.20

Basis: **Wet Weight**

Seq Number: 3034937

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.40 | U                    | 1           |
| Toluene              | 108-88-3    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.40 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.40 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.0200           | 0.0200            | mg/kg        | 12.04.17 20.40 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.40 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.40 | U                    | 1           |
| Total BTEX           |             | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.40 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 84                | %            | 80-120         | 12.04.17 20.40       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 91                | %            | 80-120         | 12.04.17 20.40       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 8**  
 Lab Sample Id: 569997-015

Matrix: Soil  
 Date Collected: 12.01.17 11.00

Date Received: 12.04.17 10.50  
 Sample Depth: Surf

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result      | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|-------------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <b>21.8</b> | 4.95 | mg/kg | 12.05.17 12.10 |      | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034997

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <25.0      | 25.0  | mg/kg  | 12.04.17 20.30 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <25.0      | 25.0  | mg/kg  | 12.04.17 20.30 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <25.0      | 25.0  | mg/kg  | 12.04.17 20.30 | U    | 1   |
| Total TPH 1005                     | PHC635     | <25.0      | 25.0  | mg/kg  | 12.04.17 20.30 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 88         | %     | 70-135 | 12.04.17 20.30 |      |     |
| o-Terphenyl                        | 84-15-1    | 84         | %     | 70-130 | 12.04.17 20.30 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 8**  
 Lab Sample Id: 569997-015

Matrix: Soil  
 Date Collected: 12.01.17 11.00

Date Received: 12.04.17 10.50  
 Sample Depth: Surf

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.04.17 11.20

Basis: Wet Weight

Seq Number: 3034937

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.59 | U                    | 1           |
| Toluene              | 108-88-3    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.59 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.59 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.0200           | 0.0200            | mg/kg        | 12.04.17 20.59 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.59 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.59 | U                    | 1           |
| Total BTEX           |             | <0.0100           | 0.0100            | mg/kg        | 12.04.17 20.59 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 1,4-Difluorobenzene  |             | 540-36-3          | 94                | %            | 80-120         | 12.04.17 20.59       |             |
| 4-Bromofluorobenzene |             | 460-00-4          | 89                | %            | 80-120         | 12.04.17 20.59       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 8**  
 Lab Sample Id: 569997-016

Matrix: Soil  
 Date Received: 12.04.17 10.50  
 Date Collected: 12.01.17 11.30  
 Sample Depth: 12 In

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.94  | 4.94 | mg/kg | 12.05.17 12.28 | U    | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034997

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <25.0      | 25.0  | mg/kg  | 12.04.17 20.51 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <25.0      | 25.0  | mg/kg  | 12.04.17 20.51 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <25.0      | 25.0  | mg/kg  | 12.04.17 20.51 | U    | 1   |
| Total TPH 1005                     | PHC635     | <25.0      | 25.0  | mg/kg  | 12.04.17 20.51 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 80         | %     | 70-135 | 12.04.17 20.51 |      |     |
| o-Terphenyl                        | 84-15-1    | 84         | %     | 70-130 | 12.04.17 20.51 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 8**  
 Lab Sample Id: 569997-016

Matrix: Soil  
 Date Collected: 12.01.17 11.30

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.04.17 11.20

Basis: Wet Weight

Seq Number: 3034937

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.17 | U                    | 1           |
| Toluene              | 108-88-3    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.17 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.17 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.0200           | 0.0200            | mg/kg        | 12.04.17 21.17 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.17 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.17 | U                    | 1           |
| Total BTEX           |             | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.17 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 1,4-Difluorobenzene  |             | 540-36-3          | 81                | %            | 80-120         | 12.04.17 21.17       |             |
| 4-Bromofluorobenzene |             | 460-00-4          | 89                | %            | 80-120         | 12.04.17 21.17       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 9**  
 Lab Sample Id: 569997-017

Matrix: Soil  
 Date Collected: 12.01.17 12.00

Date Received: 12.04.17 10.50  
 Sample Depth: Surf

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Date Prep: 12.05.17 09.00  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.99  | 4.99 | mg/kg | 12.05.17 12.34 | U    | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034997

Prep Method: TX1005P  
 % Moisture:  
 Date Prep: 12.04.17 11.00  
 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <25.0      | 25.0  | mg/kg  | 12.04.17 21.12 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <25.0      | 25.0  | mg/kg  | 12.04.17 21.12 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <25.0      | 25.0  | mg/kg  | 12.04.17 21.12 | U    | 1   |
| Total TPH 1005                     | PHC635     | <25.0      | 25.0  | mg/kg  | 12.04.17 21.12 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 91         | %     | 70-135 | 12.04.17 21.12 |      |     |
| o-Terphenyl                        | 84-15-1    | 93         | %     | 70-130 | 12.04.17 21.12 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 9**  
 Lab Sample Id: 569997-017

Matrix: Soil  
 Date Collected: 12.01.17 12.00

Date Received: 12.04.17 10.50  
 Sample Depth: Surf

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.04.17 11.20

Basis: Wet Weight

Seq Number: 3034937

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.36 | U                    | 1           |
| Toluene              | 108-88-3    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.36 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.36 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.0200           | 0.0200            | mg/kg        | 12.04.17 21.36 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.36 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.36 | U                    | 1           |
| Total BTEX           |             | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.36 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 1,4-Difluorobenzene  |             | 540-36-3          | 94                | %            | 80-120         | 12.04.17 21.36       |             |
| 4-Bromofluorobenzene |             | 460-00-4          | 84                | %            | 80-120         | 12.04.17 21.36       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 9**  
 Lab Sample Id: 569997-018

Matrix: Soil  
 Date Collected: 12.01.17 12.30

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.97  | 4.97 | mg/kg | 12.05.17 12.51 | U    | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034997

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <24.9      | 24.9  | mg/kg  | 12.04.17 21.34 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <24.9      | 24.9  | mg/kg  | 12.04.17 21.34 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <24.9      | 24.9  | mg/kg  | 12.04.17 21.34 | U    | 1   |
| Total TPH 1005                     | PHC635     | <24.9      | 24.9  | mg/kg  | 12.04.17 21.34 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 77         | %     | 70-135 | 12.04.17 21.34 |      |     |
| o-Terphenyl                        | 84-15-1    | 78         | %     | 70-130 | 12.04.17 21.34 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 9**  
 Lab Sample Id: 569997-018

Matrix: Soil  
 Date Collected: 12.01.17 12.30

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.04.17 11.20

Basis: Wet Weight

Seq Number: 3034937

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.55 | U                    | 1           |
| Toluene              | 108-88-3    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.55 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.55 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.0200           | 0.0200            | mg/kg        | 12.04.17 21.55 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.55 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.55 | U                    | 1           |
| Total BTEX           |             | <0.0100           | 0.0100            | mg/kg        | 12.04.17 21.55 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 1,4-Difluorobenzene  |             | 540-36-3          | 92                | %            | 80-120         | 12.04.17 21.55       |             |
| 4-Bromofluorobenzene |             | 460-00-4          | 85                | %            | 80-120         | 12.04.17 21.55       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 10** Matrix: **Soil** Date Received: 12.04.17 10.50  
 Lab Sample Id: 569997-019 Date Collected: 12.01.17 13.00 Sample Depth: Surf  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MNV % Moisture:  
 Analyst: MNV Date Prep: 12.05.17 09.00 Basis: Wet Weight  
 Seq Number: 3034991

| Parameter | Cas Number | Result      | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|-------------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <b>6.45</b> | 4.94 | mg/kg | 12.05.17 12.57 |      | 1   |

Analytical Method: TPH by Texas1005 Prep Method: TX1005P  
 Tech: ARM % Moisture:  
 Analyst: ARM Date Prep: 12.04.17 11.00 Basis: Wet Weight  
 Seq Number: 3034997

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <25.0      | 25.0  | mg/kg  | 12.04.17 21.55 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <25.0      | 25.0  | mg/kg  | 12.04.17 21.55 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <25.0      | 25.0  | mg/kg  | 12.04.17 21.55 | U    | 1   |
| Total TPH 1005                     | PHC635     | <25.0      | 25.0  | mg/kg  | 12.04.17 21.55 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 92         | %     | 70-135 | 12.04.17 21.55 |      |     |
| o-Terphenyl                        | 84-15-1    | 94         | %     | 70-130 | 12.04.17 21.55 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 10** Matrix: **Soil** Date Received: 12.04.17 10.50  
 Lab Sample Id: 569997-019 Date Collected: 12.01.17 13.00 Sample Depth: Surf  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
 Tech: ALJ % Moisture:  
 Analyst: ALJ Date Prep: 12.04.17 11.20 Basis: Wet Weight  
 Seq Number: 3034937

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 22.14 | U                    | 1           |
| Toluene              | 108-88-3    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 22.14 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 22.14 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.0200           | 0.0200            | mg/kg        | 12.04.17 22.14 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 22.14 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.0100           | 0.0100            | mg/kg        | 12.04.17 22.14 | U                    | 1           |
| Total BTEX           |             | <0.0100           | 0.0100            | mg/kg        | 12.04.17 22.14 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 1,4-Difluorobenzene  |             | 540-36-3          | 91                | %            | 80-120         | 12.04.17 22.14       |             |
| 4-Bromofluorobenzene |             | 460-00-4          | 82                | %            | 80-120         | 12.04.17 22.14       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 10**  
 Lab Sample Id: 569997-020

Matrix: **Soil**  
 Date Collected: 12.01.17 13.30

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.97  | 4.97 | mg/kg | 12.05.17 13.03 | U    | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034997

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <25.0      | 25.0  | mg/kg  | 12.04.17 22.14 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <25.0      | 25.0  | mg/kg  | 12.04.17 22.14 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <25.0      | 25.0  | mg/kg  | 12.04.17 22.14 | U    | 1   |
| Total TPH 1005                     | PHC635     | <25.0      | 25.0  | mg/kg  | 12.04.17 22.14 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 91         | %     | 70-135 | 12.04.17 22.14 |      |     |
| o-Terphenyl                        | 84-15-1    | 91         | %     | 70-130 | 12.04.17 22.14 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 10**

Matrix: **Soil**

Date Received: 12.04.17 10.50

Lab Sample Id: **569997-020**

Date Collected: **12.01.17 13.30**

Sample Depth: **12 In**

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5030B**

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: **12.04.17 11.20**

Basis: **Wet Weight**

Seq Number: **3034937**

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.10 | U                    | 1           |
| Toluene              | 108-88-3    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.10 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.10 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.0200           | 0.0200            | mg/kg        | 12.04.17 23.10 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.10 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.10 | U                    | 1           |
| Total BTEX           |             | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.10 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 89                | %            | 80-120         | 12.04.17 23.10       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 96                | %            | 80-120         | 12.04.17 23.10       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 12**  
 Lab Sample Id: 569997-021

Matrix: Soil  
 Date Collected: 12.01.17 14.30

Date Received: 12.04.17 10.50  
 Sample Depth: Surf

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.94  | 4.94 | mg/kg | 12.05.17 13.09 | U    | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034916

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <25.0      | 25.0  | mg/kg  | 12.04.17 17.50 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <25.0      | 25.0  | mg/kg  | 12.04.17 17.50 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <25.0      | 25.0  | mg/kg  | 12.04.17 17.50 | U    | 1   |
| Total TPH 1005                     | PHC635     | <25.0      | 25.0  | mg/kg  | 12.04.17 17.50 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 91         | %     | 70-135 | 12.04.17 17.50 |      |     |
| o-Terphenyl                        | 84-15-1    | 82         | %     | 70-130 | 12.04.17 17.50 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 12**  
 Lab Sample Id: 569997-021

Matrix: Soil  
 Date Collected: 12.01.17 14.30

Date Received: 12.04.17 10.50  
 Sample Depth: Surf

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.04.17 11.20

Basis: Wet Weight

Seq Number: 3034937

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.29 | U                    | 1           |
| Toluene              | 108-88-3    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.29 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.29 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.0200           | 0.0200            | mg/kg        | 12.04.17 23.29 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.29 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.29 | U                    | 1           |
| Total BTEX           |             | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.29 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 89                | %            | 80-120         | 12.04.17 23.29       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 91                | %            | 80-120         | 12.04.17 23.29       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 12**  
 Lab Sample Id: 569997-022

Matrix: Soil  
 Date Collected: 12.01.17 15.00

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Date Prep: 12.05.17 09.00  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.92  | 4.92 | mg/kg | 12.05.17 13.15 | U    | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034916

Prep Method: TX1005P  
 % Moisture:  
 Date Prep: 12.04.17 11.00  
 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <24.9      | 24.9  | mg/kg  | 12.04.17 18.10 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <24.9      | 24.9  | mg/kg  | 12.04.17 18.10 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <24.9      | 24.9  | mg/kg  | 12.04.17 18.10 | U    | 1   |
| Total TPH 1005                     | PHC635     | <24.9      | 24.9  | mg/kg  | 12.04.17 18.10 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 94         | %     | 70-135 | 12.04.17 18.10 |      |     |
| o-Terphenyl                        | 84-15-1    | 88         | %     | 70-130 | 12.04.17 18.10 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 12**  
 Lab Sample Id: 569997-022

Matrix: **Soil**  
 Date Collected: 12.01.17 15.00

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: 12.04.17 11.20

Basis: **Wet Weight**

Seq Number: 3034937

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.48 | U                    | 1           |
| Toluene              | 108-88-3    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.48 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.48 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.0200           | 0.0200            | mg/kg        | 12.04.17 23.48 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.48 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.48 | U                    | 1           |
| Total BTEX           |             | <0.0100           | 0.0100            | mg/kg        | 12.04.17 23.48 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 1,4-Difluorobenzene  |             | 540-36-3          | 93                | %            | 80-120         | 12.04.17 23.48       |             |
| 4-Bromofluorobenzene |             | 460-00-4          | 87                | %            | 80-120         | 12.04.17 23.48       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 11**  
 Lab Sample Id: 569997-023

Matrix: Soil  
 Date Collected: 12.01.17 15.30

Date Received: 12.04.17 10.50  
 Sample Depth: Surf

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 93.3   | 4.92 | mg/kg | 12.05.17 13.21 |      | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034916

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <24.9      | 24.9  | mg/kg  | 12.04.17 18.31 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <24.9      | 24.9  | mg/kg  | 12.04.17 18.31 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <24.9      | 24.9  | mg/kg  | 12.04.17 18.31 | U    | 1   |
| Total TPH 1005                     | PHC635     | <24.9      | 24.9  | mg/kg  | 12.04.17 18.31 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 93         | %     | 70-135 | 12.04.17 18.31 |      |     |
| o-Terphenyl                        | 84-15-1    | 84         | %     | 70-130 | 12.04.17 18.31 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 11**  
 Lab Sample Id: 569997-023

Matrix: **Soil**  
 Date Collected: 12.01.17 15.30

Date Received: 12.04.17 10.50  
 Sample Depth: Surf

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: 12.04.17 11.20

Basis: **Wet Weight**

Seq Number: 3034937

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.0100           | 0.0100            | mg/kg        | 12.05.17 00.06 | U                    | 1           |
| Toluene              | 108-88-3    | <0.0100           | 0.0100            | mg/kg        | 12.05.17 00.06 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.0100           | 0.0100            | mg/kg        | 12.05.17 00.06 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.0200           | 0.0200            | mg/kg        | 12.05.17 00.06 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.0100           | 0.0100            | mg/kg        | 12.05.17 00.06 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.0100           | 0.0100            | mg/kg        | 12.05.17 00.06 | U                    | 1           |
| Total BTEX           |             | <0.0100           | 0.0100            | mg/kg        | 12.05.17 00.06 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 86                | %            | 80-120         | 12.05.17 00.06       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 92                | %            | 80-120         | 12.05.17 00.06       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 11**  
 Lab Sample Id: 569997-024

Matrix: **Soil**  
 Date Collected: 12.01.17 16.00

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: Chloride by EPA 300  
 Tech: MNV  
 Analyst: MNV  
 Seq Number: 3034991

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 321    | 4.95 | mg/kg | 12.05.17 13.27 |      | 1   |

Analytical Method: TPH by Texas1005  
 Tech: ARM  
 Analyst: ARM  
 Seq Number: 3034916

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| C6-C12 Gasoline Range Hydrocarbons | PHC612     | <25.0      | 25.0  | mg/kg  | 12.04.17 18.52 | U    | 1   |
| C12-C28 Diesel Range Hydrocarbons  | PHCG1228   | <25.0      | 25.0  | mg/kg  | 12.04.17 18.52 | U    | 1   |
| C28-C35 Oil Range Hydrocarbons     | PHCG2835   | <25.0      | 25.0  | mg/kg  | 12.04.17 18.52 | U    | 1   |
| Total TPH 1005                     | PHC635     | <25.0      | 25.0  | mg/kg  | 12.04.17 18.52 | U    | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 94         | %     | 70-135 | 12.04.17 18.52 |      |     |
| o-Terphenyl                        | 84-15-1    | 88         | %     | 70-130 | 12.04.17 18.52 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 11**  
 Lab Sample Id: 569997-024

Matrix: **Soil**  
 Date Collected: 12.01.17 16.00

Date Received: 12.04.17 10.50  
 Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: 12.04.17 11.20

Basis: **Wet Weight**

Seq Number: 3034937

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.0100           | 0.0100            | mg/kg        | 12.05.17 00.24 | U                    | 1           |
| Toluene              | 108-88-3    | <0.0100           | 0.0100            | mg/kg        | 12.05.17 00.24 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.0100           | 0.0100            | mg/kg        | 12.05.17 00.24 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.0200           | 0.0200            | mg/kg        | 12.05.17 00.24 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.0100           | 0.0100            | mg/kg        | 12.05.17 00.24 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.0100           | 0.0100            | mg/kg        | 12.05.17 00.24 | U                    | 1           |
| Total BTEX           |             | <0.0100           | 0.0100            | mg/kg        | 12.05.17 00.24 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 86                | %            | 80-120         | 12.05.17 00.24       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 91                | %            | 80-120         | 12.05.17 00.24       |             |

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***

***Certified and approved by numerous States and Agencies.***

***A Small Business and Minority Status Company that delivers SERVICE and QUALITY***

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

4147 Greenbriar Dr, Stafford, TX 77477  
 9701 Harry Hines Blvd , Dallas, TX 75220  
 5332 Blackberry Drive, San Antonio TX 78238  
 1211 W Florida Ave, Midland, TX 79701  
 2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282

| Phone          | Fax            |
|----------------|----------------|
| (281) 240-4200 | (281) 240-4280 |
| (214) 902 0300 | (214) 351-9139 |
| (210) 509-3334 | (210) 509-3335 |
| (432) 563-1800 | (432) 563-1713 |
| (602) 437-0330 |                |



## Remediation and Environmental Xperts, LLC

Steward

## Analytical Method: Chloride by EPA 300

| Seq Number:   | 3034981       |              | Matrix:        | Solid         |             |           |        |      | Prep Method: | E300P    |                |      |
|---------------|---------------|--------------|----------------|---------------|-------------|-----------|--------|------|--------------|----------|----------------|------|
| MB Sample Id: | 7635398-1-BLK |              | LCS Sample Id: | 7635398-1-BKS |             |           |        |      | Date Prep:   | 12.04.17 |                |      |
| Parameter     | MB Result     | Spike Amount | LCS Result     | LCS %Rec      | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit    | Units    | Analysis Date  | Flag |
| Chloride      | <5.00         | 250          | 248            | 99            | 249         | 100       | 90-110 | 0    | 20           | mg/kg    | 12.04.17 19:08 |      |

## Analytical Method: Chloride by EPA 300

| Seq Number:   | 3034991       |              | Matrix:        | Solid         |             |           |        |      | Prep Method: | E300P    |                |      |
|---------------|---------------|--------------|----------------|---------------|-------------|-----------|--------|------|--------------|----------|----------------|------|
| MB Sample Id: | 7635431-1-BLK |              | LCS Sample Id: | 7635431-1-BKS |             |           |        |      | Date Prep:   | 12.05.17 |                |      |
| Parameter     | MB Result     | Spike Amount | LCS Result     | LCS %Rec      | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit    | Units    | Analysis Date  | Flag |
| Chloride      | <5.00         | 250          | 247            | 99            | 246         | 98        | 90-110 | 0    | 20           | mg/kg    | 12.05.17 10:35 |      |

## Analytical Method: Chloride by EPA 300

| Seq Number:       | 3034981       |              | Matrix:       | Soil         |            |          |        |      | Prep Method: | E300P    |                |      |
|-------------------|---------------|--------------|---------------|--------------|------------|----------|--------|------|--------------|----------|----------------|------|
| Parent Sample Id: | 569113-013    |              | MS Sample Id: | 569113-013 S |            |          |        |      | Date Prep:   | 12.04.17 |                |      |
| Parameter         | Parent Result | Spike Amount | MS Result     | MS %Rec      | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit    | Units    | Analysis Date  | Flag |
| Chloride          | 710           | 249          | 964           | 102          | 965        | 102      | 90-110 | 0    | 20           | mg/kg    | 12.04.17 21:38 |      |

## Analytical Method: Chloride by EPA 300

| Seq Number:       | 3034991       |              | Matrix:       | Soil         |            |          |        |      | Prep Method: | E300P    |                |      |
|-------------------|---------------|--------------|---------------|--------------|------------|----------|--------|------|--------------|----------|----------------|------|
| Parent Sample Id: | 569997-005    |              | MS Sample Id: | 569997-005 S |            |          |        |      | Date Prep:   | 12.05.17 |                |      |
| Parameter         | Parent Result | Spike Amount | MS Result     | MS %Rec      | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit    | Units    | Analysis Date  | Flag |
| Chloride          | 71.8          | 248          | 322           | 101          | 316        | 98       | 90-110 | 2    | 20           | mg/kg    | 12.05.17 10:53 |      |

## Analytical Method: Chloride by EPA 300

| Seq Number:       | 3034991       |              | Matrix:       | Soil         |            |          |        |      | Prep Method: | E300P    |                |      |
|-------------------|---------------|--------------|---------------|--------------|------------|----------|--------|------|--------------|----------|----------------|------|
| Parent Sample Id: | 569997-015    |              | MS Sample Id: | 569997-015 S |            |          |        |      | Date Prep:   | 12.05.17 |                |      |
| Parameter         | Parent Result | Spike Amount | MS Result     | MS %Rec      | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit    | Units    | Analysis Date  | Flag |
| Chloride          | 21.8          | 248          | 282           | 105          | 286        | 107      | 90-110 | 1    | 20           | mg/kg    | 12.05.17 12:16 |      |



QC Summary 569997

## Remediation and Environmental Xperts, LLC

Steward

## Analytical Method: TPH by Texas1005

Seq Number: 3034916

Matrix: Solid

Prep Method: TX1005P

Date Prep: 12.04.17

MB Sample Id: 7635383-1-BLK

LCS Sample Id: 7635383-1-BKS

LCSD Sample Id: 7635383-1-BSD

| Parameter                          | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD  | RPD Limit      | Units | Analysis Date  | Flag |
|------------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|-------|----------------|-------|----------------|------|
| C6-C12 Gasoline Range Hydrocarbons | <25.0     | 1000         | 1010       | 101      | 944         | 94        | 70-135 | 7     | 35             | mg/kg | 12.04.17 12:40 |      |
| C12-C28 Diesel Range Hydrocarbons  | <25.0     | 1000         | 1010       | 101      | 967         | 97        | 70-135 | 4     | 35             | mg/kg | 12.04.17 12:40 |      |
| Surrogate                          | MB %Rec   | MB Flag      | LCS %Rec   | LCS Flag | LCSD %Rec   | LCSD Flag | Limits | Units | Analysis Date  |       |                |      |
| 1-Chlorooctane                     | 98        |              | 116        |          | 109         |           | 70-135 | %     | 12.04.17 12:40 |       |                |      |
| o-Terphenyl                        | 95        |              | 113        |          | 102         |           | 70-130 | %     | 12.04.17 12:40 |       |                |      |

## Analytical Method: TPH by Texas1005

Seq Number: 3034997

Matrix: Solid

Prep Method: TX1005P

Date Prep: 12.04.17

MB Sample Id: 7635408-1-BLK

LCS Sample Id: 7635408-1-BKS

LCSD Sample Id: 7635408-1-BSD

| Parameter                          | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD  | RPD Limit      | Units | Analysis Date  | Flag |
|------------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|-------|----------------|-------|----------------|------|
| C6-C12 Gasoline Range Hydrocarbons | <25.0     | 1000         | 850        | 85       | 933         | 93        | 70-135 | 9     | 35             | mg/kg | 12.04.17 13:23 |      |
| C12-C28 Diesel Range Hydrocarbons  | <25.0     | 1000         | 802        | 80       | 980         | 98        | 70-135 | 20    | 35             | mg/kg | 12.04.17 13:23 |      |
| Surrogate                          | MB %Rec   | MB Flag      | LCS %Rec   | LCS Flag | LCSD %Rec   | LCSD Flag | Limits | Units | Analysis Date  |       |                |      |
| 1-Chlorooctane                     | 96        |              | 72         |          | 99          |           | 70-135 | %     | 12.04.17 13:23 |       |                |      |
| o-Terphenyl                        | 101       |              | 77         |          | 97          |           | 70-130 | %     | 12.04.17 13:23 |       |                |      |

## Analytical Method: TPH by Texas1005

Seq Number: 3034916

Matrix: Soil

Prep Method: TX1005P

Date Prep: 12.04.17

Parent Sample Id: 569990-016

MS Sample Id: 569990-016 S

MSD Sample Id: 569990-016 SD

| Parameter                          | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD  | RPD Limit      | Units | Analysis Date  | Flag |
|------------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|-------|----------------|-------|----------------|------|
| C6-C12 Gasoline Range Hydrocarbons | <25.0         | 999          | 928       | 93      | 967        | 97       | 70-135 | 4     | 35             | mg/kg | 12.04.17 17:07 |      |
| C12-C28 Diesel Range Hydrocarbons  | 54.7          | 999          | 1020      | 97      | 1030       | 98       | 70-135 | 1     | 35             | mg/kg | 12.04.17 17:07 |      |
| Surrogate                          |               |              | MS %Rec   | MS Flag | MSD %Rec   | MSD Flag | Limits | Units | Analysis Date  |       |                |      |
| 1-Chlorooctane                     |               |              | 108       |         | 107        |          | 70-135 | %     | 12.04.17 17:07 |       |                |      |
| o-Terphenyl                        |               |              | 97        |         | 99         |          | 70-130 | %     | 12.04.17 17:07 |       |                |      |



# QC Summary 569997

## Remediation and Environmental Xperts, LLC

Steward

**Analytical Method: TPH by Texas1005**

Seq Number: 3034997

Parent Sample Id: 569997-001

Matrix: Soil

Prep Method: TX1005P

Date Prep: 12.04.17

MS Sample Id: 569997-001 S

MSD Sample Id: 569997-001 SD

| Parameter                          | Parent Result | Spike Amount | MS Result      | MS %Rec        | MSD Result      | MSD %Rec        | Limits | %RPD   | RPD Limit | Units | Analysis Date  | Flag |
|------------------------------------|---------------|--------------|----------------|----------------|-----------------|-----------------|--------|--------|-----------|-------|----------------|------|
| C6-C12 Gasoline Range Hydrocarbons | <25.0         | 998          | 930            | 93             | 847             | 85              | 70-135 | 9      | 35        | mg/kg | 12.04.17 14:39 |      |
| C12-C28 Diesel Range Hydrocarbons  | 54.9          | 998          | 1030           | 98             | 948             | 89              | 70-135 | 8      | 35        | mg/kg | 12.04.17 14:39 |      |
| <b>Surrogate</b>                   |               |              | <b>MS %Rec</b> | <b>MS Flag</b> | <b>MSD %Rec</b> | <b>MSD Flag</b> |        |        |           |       |                |      |
| 1-Chlorooctane                     |               |              | 99             |                |                 | 80              |        | 70-135 |           | %     | 12.04.17 14:39 |      |
| o-Terphenyl                        |               |              | 93             |                |                 | 90              |        | 70-130 |           | %     | 12.04.17 14:39 |      |

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3034895

MB Sample Id: 7635368-1-BLK

Matrix: Solid

Prep Method: SW5030B

Date Prep: 12.04.17

LCS Sample Id: 7635368-1-BKS

LCSD Sample Id: 7635368-1-BSD

| Parameter            | MB Result      | Spike Amount   | LCS Result      | LCS %Rec        | LCSD Result      | LCSD %Rec        | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|----------------------|----------------|----------------|-----------------|-----------------|------------------|------------------|--------|------|-----------|-------|----------------|------|
| Benzene              | <0.00200       | 0.100          | 0.113           | 113             | 0.116            | 115              | 70-130 | 3    | 35        | mg/kg | 12.04.17 07:42 |      |
| Toluene              | <0.00200       | 0.100          | 0.108           | 108             | 0.109            | 108              | 70-130 | 1    | 35        | mg/kg | 12.04.17 07:42 |      |
| Ethylbenzene         | <0.00200       | 0.100          | 0.104           | 104             | 0.106            | 105              | 71-129 | 2    | 35        | mg/kg | 12.04.17 07:42 |      |
| m,p-Xylenes          | <0.00401       | 0.200          | 0.200           | 100             | 0.204            | 101              | 70-135 | 2    | 35        | mg/kg | 12.04.17 07:42 |      |
| o-Xylene             | <0.00200       | 0.100          | 0.0971          | 97              | 0.0988           | 98               | 71-133 | 2    | 35        | mg/kg | 12.04.17 07:42 |      |
| <b>Surrogate</b>     | <b>MB %Rec</b> | <b>MB Flag</b> | <b>LCS %Rec</b> | <b>LCS Flag</b> | <b>LCSD %Rec</b> | <b>LCSD Flag</b> |        |      |           |       |                |      |
| 1,4-Difluorobenzene  | 92             |                | 98              |                 | 98               |                  | 80-120 |      |           | %     | 12.04.17 07:42 |      |
| 4-Bromofluorobenzene | 80             |                | 93              |                 | 97               |                  | 80-120 |      |           | %     | 12.04.17 07:42 |      |

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3034937

MB Sample Id: 7635396-1-BLK

Matrix: Solid

Prep Method: SW5030B

Date Prep: 12.04.17

LCS Sample Id: 7635396-1-BKS

LCSD Sample Id: 7635396-1-BSD

| Parameter            | MB Result      | Spike Amount   | LCS Result      | LCS %Rec        | LCSD Result      | LCSD %Rec        | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|----------------------|----------------|----------------|-----------------|-----------------|------------------|------------------|--------|------|-----------|-------|----------------|------|
| Benzene              | <0.0100        | 0.500          | 0.566           | 113             | 0.558            | 112              | 70-130 | 1    | 35        | mg/kg | 12.04.17 17:15 |      |
| Toluene              | <0.0100        | 0.500          | 0.526           | 105             | 0.527            | 105              | 70-130 | 0    | 35        | mg/kg | 12.04.17 17:15 |      |
| Ethylbenzene         | <0.0100        | 0.500          | 0.506           | 101             | 0.503            | 101              | 71-129 | 1    | 35        | mg/kg | 12.04.17 17:15 |      |
| m,p-Xylenes          | <0.0200        | 1.00           | 0.976           | 98              | 0.966            | 97               | 70-135 | 1    | 35        | mg/kg | 12.04.17 17:15 |      |
| o-Xylene             | <0.0100        | 0.500          | 0.475           | 95              | 0.474            | 95               | 71-133 | 0    | 35        | mg/kg | 12.04.17 17:15 |      |
| <b>Surrogate</b>     | <b>MB %Rec</b> | <b>MB Flag</b> | <b>LCS %Rec</b> | <b>LCS Flag</b> | <b>LCSD %Rec</b> | <b>LCSD Flag</b> |        |      |           |       |                |      |
| 1,4-Difluorobenzene  | 89             |                | 95              |                 | 95               |                  | 80-120 |      |           | %     | 12.04.17 17:15 |      |
| 4-Bromofluorobenzene | 81             |                | 89              |                 | 95               |                  | 80-120 |      |           | %     | 12.04.17 17:15 |      |



# QC Summary 569997

## Remediation and Environmental Xperts, LLC

Steward

### Analytical Method: BTEX by EPA 8021B

|                      |               |               |              |         |              |          |        |      |           |       |                |      |
|----------------------|---------------|---------------|--------------|---------|--------------|----------|--------|------|-----------|-------|----------------|------|
| Seq Number:          | 3034895       | Matrix:       | Soil         |         | Prep Method: | SW5030B  |        |      |           |       |                |      |
| Parent Sample Id:    | 569948-001    | MS Sample Id: | 569948-001 S |         | Date Prep:   | 12.04.17 |        |      |           |       |                |      |
| Parameter            | Parent Result | Spike Amount  | MS Result    | MS %Rec | MSD Result   | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
| Benzene              | <0.00199      | 0.0996        | 0.0883       | 89      | 0.0926       | 93       | 70-130 | 5    | 35        | mg/kg | 12.04.17 08:20 |      |
| Toluene              | 0.00636       | 0.0996        | 0.0833       | 77      | 0.0891       | 83       | 70-130 | 7    | 35        | mg/kg | 12.04.17 08:20 |      |
| Ethylbenzene         | <0.00199      | 0.0996        | 0.0691       | 69      | 0.0743       | 74       | 71-129 | 7    | 35        | mg/kg | 12.04.17 08:20 | X    |
| m,p-Xylenes          | <0.00398      | 0.199         | 0.135        | 68      | 0.142        | 71       | 70-135 | 5    | 35        | mg/kg | 12.04.17 08:20 | X    |
| o-Xylene             | <0.00199      | 0.0996        | 0.0629       | 63      | 0.0707       | 71       | 71-133 | 12   | 35        | mg/kg | 12.04.17 08:20 | X    |
| Surrogate            |               |               | MS %Rec      | MS Flag | MSD %Rec     | MSD Flag | Limits |      |           | Units | Analysis Date  |      |
| 1,4-Difluorobenzene  |               |               | 106          |         | 97           |          | 80-120 |      |           | %     | 12.04.17 08:20 |      |
| 4-Bromofluorobenzene |               |               | 104          |         | 98           |          | 80-120 |      |           | %     | 12.04.17 08:20 |      |

### Analytical Method: BTEX by EPA 8021B

|                      |               |               |              |         |              |          |        |      |           |       |                |      |
|----------------------|---------------|---------------|--------------|---------|--------------|----------|--------|------|-----------|-------|----------------|------|
| Seq Number:          | 3034937       | Matrix:       | Soil         |         | Prep Method: | SW5030B  |        |      |           |       |                |      |
| Parent Sample Id:    | 569997-011    | MS Sample Id: | 569997-011 S |         | Date Prep:   | 12.04.17 |        |      |           |       |                |      |
| Parameter            | Parent Result | Spike Amount  | MS Result    | MS %Rec | MSD Result   | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
| Benzene              | <0.0100       | 0.500         | 0.474        | 95      | 0.487        | 97       | 70-130 | 3    | 35        | mg/kg | 12.04.17 17:53 |      |
| Toluene              | <0.0100       | 0.500         | 0.422        | 84      | 0.421        | 84       | 70-130 | 0    | 35        | mg/kg | 12.04.17 17:53 |      |
| Ethylbenzene         | <0.0100       | 0.500         | 0.379        | 76      | 0.368        | 74       | 71-129 | 3    | 35        | mg/kg | 12.04.17 17:53 |      |
| m,p-Xylenes          | <0.0200       | 1.00          | 0.719        | 72      | 0.712        | 71       | 70-135 | 1    | 35        | mg/kg | 12.04.17 17:53 |      |
| o-Xylene             | <0.0100       | 0.500         | 0.356        | 71      | 0.351        | 70       | 71-133 | 1    | 35        | mg/kg | 12.04.17 17:53 | X    |
| Surrogate            |               |               | MS %Rec      | MS Flag | MSD %Rec     | MSD Flag | Limits |      |           | Units | Analysis Date  |      |
| 1,4-Difluorobenzene  |               |               | 96           |         | 96           |          | 80-120 |      |           | %     | 12.04.17 17:53 |      |
| 4-Bromofluorobenzene |               |               | 95           |         | 95           |          | 80-120 |      |           | %     | 12.04.17 17:53 |      |

# CHAIN OF CUSTODY

Page 1 of 3

San Antonio, Texas (210-509-3334)  
Midland, Texas (432-704-5251)  
Phoenix, Arizona (480-355-0900)

www.xenco.com

Xenco Quote # 569997  
Xenco Job # 569997

## Matrix Codes

| Client / Reporting Information   | Project Information  | Analytical Information | Matrix Codes |
|--|--|------------------------|--------------|
| Company Name / Branch:<br><b>REX, LLC</b><br>Company Address:<br>P.O. BOX 2699<br>BIG SPRING, TX 79721<br>Email: <a href="mailto:admin@oilandsalremediation.com">admin@oilandsalremediation.com</a> 432-213-3105<br><a href="http://OilAndSaltRemediation.com">OilAndSaltRemediation.com</a><br>Project Contact:<br>Rex Rainey and/or Roylyn Welch<br>Sampler's Name | Project Name/Number:<br><b>Steward</b><br>Project Location:<br><b>Helsenberg State Crm - TH</b><br>Invoice To:<br><b>REX LLC</b><br>PO Number:<br><b>BTEX 8021</b> |                        |              |

| No. | Field ID / Point of Collection | Collection     | Number of preserved bottles | Field Comments |
|-----|--------------------------------|----------------|-----------------------------|----------------|
| 1   | SPOT 1                         | SUR 12/1 9:30  | # of bottles: 1             | Chlorides      |
| 2   | SPOT 1                         | SUR 12/1 10:00 | 1                           | TPH            |
| 3   | SPOT 2                         | SUR 12/1 10:30 | 1                           | BTEX           |
| 4   | SPOT 2                         | SUR 12/1 11:00 | 1                           | 8021           |
| 5   | SPOT 3                         | SUR 12/1 11:30 | 1                           |                |
| 6   | SPOT 3                         | SUR 12/1 12:00 | 1                           |                |
| 7   | SPOT 4                         | SUR 12/1 12:30 | 1                           |                |
| 8   | SPOT 4                         | SUR 12/1 1:00  | 1                           |                |
| 9   | SPOT 5                         | SUR 12/1 1:30  | 1                           |                |
| 10  | SPOT 5                         | SUR 12/1 2:00  | 1                           |                |

| Turnaround Time (Business days)  |                    | Data Deliverable Information |                        | Notes:                      |                                     |
|--|--------------------|------------------------------|------------------------|-----------------------------|-------------------------------------|
| <input type="checkbox"/>   | Same Day TAT       | <input type="checkbox"/>     | Level II Std QC        | <input type="checkbox"/>    | Level IV (Full Data Pkg / raw data) |
| <input checked="" type="checkbox"/>  | Next Day EMERGENCY | <input type="checkbox"/>     | Level III Std QC+Forms | <input type="checkbox"/>    | TRRP Level IV                       |
| <input type="checkbox"/>   | 2 Day EMERGENCY    | <input type="checkbox"/>     | Level 3 (CLP Forms)    | <input type="checkbox"/>    | UST / RG-441                        |
| <input type="checkbox"/>   | 3 Day EMERGENCY    | <input type="checkbox"/>     | TRRP Checklist         |                             |                                     |
| <b>TAT Starts Day received by Lab, if received by 5:00 pm</b>  |                    | <b>Temp: 3.9</b>             |                        | <b>IR ID:R-8</b>            |                                     |
| <b>SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY</b> |                    | <b>CF:(0.6,-0.2°C)</b>       |                        | <b>(6-23: +0.2°C)</b>       |                                     |
| <b>Corrected Temp: 4.1</b>   |                    |                              |                        |                             |                                     |
| <b>Relinquished by Sampler:</b>  |                    | <b>Date Time:</b>            |                        | <b>Received By:</b>         |                                     |
| <b>Rex Rainey</b>  |                    | <b>12/1 0:00</b>             |                        | <b>Reinquished By:</b>      |                                     |
| <b>Relinquished by:</b>  |                    | <b>Date Time:</b>            |                        | <b>Date Time:</b>           |                                     |
| <b>3</b>   |                    | <b>3</b>                     |                        | <b>4</b>                    |                                     |
| <b>Relinquished by:</b>  |                    | <b>Date Time:</b>            |                        | <b>Received By:</b>         |                                     |
| <b>5</b>   |                    | <b>5</b>                     |                        | <b>On Site</b>              |                                     |
| <b>Preserved where applicable</b>  |                    | <b>Cooler Temp.</b>          |                        | <b>Thermo. Corr. Factor</b> |                                     |

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.





## CHAIN OF CUSTODY

*Setting the Standard since 1990*

Dallas, Texas (214-902-0300)

Dallas Texas (214-502-0300)

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

| Client / Reporting Information  |   | Project Information                                |                                       | Analytical Information                           |                                   | Matrix Codes  |                            |
|---|---|--|---------------------------------------|--|-----------------------------------|---|----------------------------|
| Company Name / Branch:<br>REX, LLC  | Project Name/Number:<br><i>Stew and</i>   | Project Location:<br><i>Hansenberg Stache.com.</i> |                                       |  |                                   |   |                            |
| Company Address:<br>P. O. BOX 2899<br>BIG SPRING, TX 79721  | Email: <a href="mailto:admin@olandsalremediation.com">admin@olandsalremediation.com</a> | 432-213-3105                                       | Invoice To:                           | <i>Rex LLC</i>                                   | PO Number:                        |   |                            |
| Project Contact:<br><i>Rex Rainey and/or Roylyn Welch</i>   | Sampler's Name  |  |                                       |  |                                   |   |                            |
| No.   | Field ID / Point of Collection  | Collection   | Number of preserved bottles           | Chlorides  | TPH                               | BTEX  |                            |
|   | Sample Depth  | Date   | Time                                  | Matrix   | # of bottles                      | Field Comments  |                            |
| 1   | S P0t   | 12   | 12/1                                  | 2:30   | 1                                 | NaOH/Zn Acetate   |                            |
| 2   | S P0t   | 12   | 12/1                                  | 3:00   | 1                                 | HNO3  |                            |
| 3   | S P0t   | 11   | 12/1                                  | 3:30   | 1                                 | H2SO4   |                            |
| 4   | S P0t   | 11   | 12/1                                  | 4:00   | 1                                 | ZnOH  |                            |
| 5   |   |  |                                       |  | 1                                 | NaHSO4  |                            |
| 6   |   |  |                                       |  | 1                                 | MEOH  |                            |
| 7   |   |  |                                       |  | 1                                 | NONE  |                            |
| 8   |   |  |                                       |  | 1                                 |   |                            |
| 9   |   |  |                                       |  | 1                                 |   |                            |
| 10  |   |  |                                       |  | 1                                 |   |                            |
| Turnaround Time ( Business days )   |   |  |                                       |  |                                   |   |                            |
| Data Deliverable Information  |   |  |                                       |  |                                   |   |                            |
| Notes:  |   |  |                                       |  |                                   |   |                            |
| <input type="checkbox"/> Same Day TAT   |   | <input type="checkbox"/> 5 Day TAT                 |                                       | <input type="checkbox"/> Level II Std QC         |                                   | <input type="checkbox"/> Level IV (Full Data Pkg /raw data) |                            |
| <input checked="" type="checkbox"/> Next Day EMERGENCY  |   | <input type="checkbox"/> 7 Day TAT                 |                                       | <input type="checkbox"/> Level III Std QC+ Forms |                                   | <input type="checkbox"/> TRRP Level IV                      |                            |
| <input type="checkbox"/> 2 Day EMERGENCY  |   | <input type="checkbox"/> Contract TAT              |                                       | <input type="checkbox"/> Level 3 (CLP Forms)     |                                   | <input type="checkbox"/> UST / RG -411                      |                            |
| <input type="checkbox"/> 3 Day EMERGENCY  |   | <input type="checkbox"/> TRRP Checklist            |                                       |  |                                   |   |                            |
| TAT Starts Day received by Lab, If received by 5:00 pm  |   |  |                                       |  |                                   |   |                            |
| SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY   |   |  |                                       |  |                                   |   |                            |
| Relinquished by Sampler:<br><i>Rex Rainey</i>   | Date Time:<br><i>12/1 4:00</i>  | Received By:<br><i>Amelia Grand</i>                | Relinquished By:<br><i>Rex Rainey</i> | Date Time:<br><i>12/1 4:00</i>                   | Received By:<br><i>Rex Rainey</i> | Temp:<br><i>3.9</i>   | IR ID:R-8                  |
| Relinquished by:<br><i>Rex Rainey</i>   | Date Time:<br><i>12/1 4:00</i>  | Received By:<br><i>Amelia Grand</i>                | Relinquished By:<br><i>Rex Rainey</i> | Date Time:<br><i>12/1 4:00</i>                   | Received By:<br><i>Rex Rainey</i> | CF:(0-6: -0.2°C)<br>(6-23: +0.2°C)                          | Corrected Temp: <i>4.1</i> |
| Relinquished by:<br><i>Rex Rainey</i>   | Date Time:<br><i>12/1 4:00</i>  | Received By:<br><i>Amelia Grand</i>                | Relinquished By:<br><i>Rex Rainey</i> | Date Time:<br><i>12/1 4:00</i>                   | Received By:<br><i>Rex Rainey</i> | FED-EX / UPS: tracking #                                    |                            |
| 6   | Custody Seal #  | Preserved when applicable                          | On Ice                                | Cooler Temp.                                     | Thermo. Corr. Factor              |   |                            |
| Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assumes standard terms and conditions of service. Xenco will bear liability only for the cost of removal and shall not be liable for any damage or loss resulting from removal or delivery. |   |  |                                       |  |                                   |   |                            |

**losses or expenses incurred by the Client if such losses are due to circumstances not within the reasonable control of the Company.**



# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In



**Client:** Remediation and Environmental Xperts,  
**Date/ Time Received:** 12/04/2017 10:50:00 AM  
**Work Order #:** 569997

**Acceptable Temperature Range:** 0 - 6 degC  
**Air and Metal samples Acceptable Range:** Ambient  
**Temperature Measuring device used :** R8

| Sample Receipt Checklist                                | Comments |
|---|----------|
| #1 *Temperature of cooler(s)?                           | 4.1      |
| #2 *Shipping container in good condition?               | Yes      |
| #3 *Samples received on ice?                            | Yes      |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A      |
| #5 Custody Seals intact on sample bottles?              | N/A      |
| #6* Custody Seals Signed and dated?                     | N/A      |
| #7 *Chain of Custody present?                           | Yes      |
| #8 Any missing/extra samples?                           | No       |
| #9 Chain of Custody signed when relinquished/ received? | Yes      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes      |
| #11 Container label(s) legible and intact?              | Yes      |
| #12 Samples in proper container/ bottle?                | Yes      |
| #13 Samples properly preserved?                         | Yes      |
| #14 Sample container(s) intact?                         | Yes      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes      |
| #16 All samples received within hold time?              | Yes      |
| #17 Subcontract of sample(s)?                           | No       |
| #18 Water VOC samples have zero headspace?              | N/A      |

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst: PH Device/Lot#:

**Checklist completed by:** Connie Hernandez \_\_\_\_\_ Date: 12/04/2017  
Connie Hernandez

**Checklist reviewed by:** Holly Taylor \_\_\_\_\_ Date: 12/04/2017  
Holly Taylor



**Certificate of Analysis Summary 572250**  
**Remediation and Environmental Xperts, LLC, Big Spring, TX**



**Project Name: Steward**

**Project Id:**

**Contact:** Rex Rainey

**Project Location:** Heisenberg 7H

**Date Received in Lab:** Thu Dec-28-17 03:00 pm

**Report Date:** 04-JAN-18

**Project Manager:** Holly Taylor

| <b>Analysis Requested</b>         |  | <b>Lab Id:</b>    | 572250-001      | 572250-002      | 572250-003      | 572250-004      | 572250-005      | 572250-006      |
|-----------------------------------|--|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                                   |  | <b>Field Id:</b>  | Spot 13         | Spot 13         | Spot 14         | Spot 14         | Spot 15         | Spot 15         |
|                                   |  | <b>Depth:</b>     | Surface-        | 12- In          | Surface-        | 12- In          | Surface- In     | 12- In          |
|                                   |  | <b>Matrix:</b>    | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            |
|                                   |  | <b>Sampled:</b>   | Dec-28-17 08:06 | Dec-28-17 08:15 | Dec-28-17 08:30 | Dec-28-17 08:45 | Dec-28-17 09:00 | Dec-28-17 09:15 |
| <b>BTEX by EPA 8021B</b>          |  | <b>Extracted:</b> | Dec-29-17 08:00 |
|                                   |  | <b>Analyzed:</b>  | Dec-29-17 22:21 | Dec-29-17 16:16 | Dec-29-17 14:59 | Dec-29-17 16:35 | Dec-29-17 17:18 | Dec-29-17 17:37 |
|                                   |  | <b>Units/RL:</b>  | mg/kg           | RL              | mg/kg           | RL              | mg/kg           | RL              |
| Benzene                           |  |                   | <0.00201        | 0.00201         | <0.00199        | 0.00199         | <0.00200        | 0.00202         |
| Toluene                           |  |                   | <0.00201        | 0.00201         | <0.00199        | 0.00199         | <0.00200        | 0.00202         |
| Ethylbenzene                      |  |                   | 0.00331         | 0.00201         | 0.00274         | 0.00199         | <0.00200        | 0.00202         |
| m,p-Xylenes                       |  |                   | <0.00402        | 0.00402         | <0.00398        | 0.00398         | <0.00399        | 0.00399         |
| o-Xylene                          |  |                   | <0.00201        | 0.00201         | <0.00199        | 0.00199         | <0.00200        | 0.00200         |
| Total Xylenes                     |  |                   | <0.00201        | 0.00201         | <0.00199        | 0.00199         | <0.00200        | 0.00202         |
| Total BTEX                        |  |                   | 0.00331         | 0.00201         | 0.00274         | 0.00199         | <0.00200        | 0.00202         |
| <b>Chloride by EPA 300</b>        |  | <b>Extracted:</b> | Dec-29-17 10:00 |
|                                   |  | <b>Analyzed:</b>  | Jan-02-18 11:39 | Jan-02-18 11:46 | Dec-29-17 13:52 | Dec-29-17 14:13 | Dec-29-17 14:20 | Dec-29-17 14:27 |
|                                   |  | <b>Units/RL:</b>  | mg/kg           | RL              | mg/kg           | RL              | mg/kg           | RL              |
| Chloride                          |  |                   | 238000          | 2480            | 4670            | 50.0            | 322             | 4.97            |
| <b>TPH by SW8015 Mod</b>          |  | <b>Extracted:</b> | Dec-28-17 15:00 |
|                                   |  | <b>Analyzed:</b>  | Dec-29-17 07:58 | Dec-29-17 00:36 | Dec-29-17 06:02 | Dec-29-17 00:55 | Dec-29-17 01:16 | Dec-29-17 01:38 |
|                                   |  | <b>Units/RL:</b>  | mg/kg           | RL              | mg/kg           | RL              | mg/kg           | RL              |
| Gasoline Range Hydrocarbons (GRO) |  |                   | 17.6            | 15.0            | <15.0           | 15.0            | <15.0           | 15.0            |
| Diesel Range Organics (DRO)       |  |                   | 4850            | 15.0            | <15.0           | 15.0            | 1790            | 15.0            |
| Oil Range Hydrocarbons (ORO)      |  |                   | 622             | 15.0            | <15.0           | 15.0            | 1960            | 15.0            |
| Total TPH                         |  |                   | 5490            | 15.0            | <15.0           | 15.0            | 3750            | 15.0            |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.  
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.  
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor  
Project Manager



# Certificate of Analysis Summary 572250

## Remediation and Environmental Xperts, LLC, Big Spring, TX



**Project Name:** Steward

**Project Id:**

**Contact:** Rex Rainey

**Project Location:** Heisenberg 7H

**Date Received in Lab:** Thu Dec-28-17 03:00 pm

**Report Date:** 04-JAN-18

**Project Manager:** Holly Taylor

| <b>Analysis Requested</b>         |  | <b>Lab Id:</b>    | 572250-007      | 572250-008      | 572250-009      | 572250-010      | 572250-011      | 572250-012      |         |
|-----------------------------------|--|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------|
|                                   |  | <b>Field Id:</b>  | Spot 16         | Spot 16         | Spot 17         | Spot 17         | Spot 18         | Spot 18         |         |
|                                   |  | <b>Depth:</b>     | Surface- In     | 12- In          | Surface- In     | 12- In          | Surface- In     | 12- In          |         |
|                                   |  | <b>Matrix:</b>    | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            |         |
|                                   |  | <b>Sampled:</b>   | Dec-28-17 09:30 | Dec-28-17 09:45 | Dec-28-17 10:00 | Dec-28-17 10:15 | Dec-28-17 10:30 | Dec-28-17 10:45 |         |
| <b>BTEX by EPA 8021B</b>          |  | <b>Extracted:</b> | Dec-29-17 08:00 |         |
|                                   |  | <b>Analyzed:</b>  | Dec-29-17 17:57 | Dec-29-17 22:02 | Dec-29-17 21:43 | Dec-29-17 21:24 | Dec-29-17 19:29 | Dec-29-17 19:49 |         |
|                                   |  | <b>Units/RL:</b>  | mg/kg           | RL              | mg/kg           | RL              | mg/kg           | RL              |         |
| Benzene                           |  | <0.00199          | 0.00199         | <0.00199        | 0.00199         | <0.00198        | 0.00198         | <0.00200        | 0.00200 |
| Toluene                           |  | <0.00199          | 0.00199         | <0.00199        | 0.00199         | <0.00198        | 0.00198         | <0.00200        | 0.00200 |
| Ethylbenzene                      |  | <0.00199          | 0.00199         | <0.00199        | 0.00199         | <0.00198        | 0.00198         | <0.00200        | 0.00200 |
| m,p-Xylenes                       |  | <0.00398          | 0.00398         | <0.00398        | 0.00398         | <0.00396        | 0.00396         | <0.00404        | 0.00404 |
| o-Xylene                          |  | <0.00199          | 0.00199         | <0.00199        | 0.00199         | <0.00198        | 0.00198         | <0.00202        | 0.00202 |
| Total Xylenes                     |  | <0.00199          | 0.00199         | <0.00199        | 0.00199         | <0.00198        | 0.00198         | <0.00202        | 0.00202 |
| Total BTEX                        |  | <0.00199          | 0.00199         | <0.00199        | 0.00199         | <0.00198        | 0.00198         | <0.00202        | 0.00202 |
| <b>Chloride by EPA 300</b>        |  | <b>Extracted:</b> | Dec-29-17 10:00 |         |
|                                   |  | <b>Analyzed:</b>  | Dec-29-17 14:34 | Dec-29-17 14:41 | Dec-29-17 14:55 | Dec-29-17 15:15 | Dec-29-17 15:36 | Dec-29-17 15:43 |         |
|                                   |  | <b>Units/RL:</b>  | mg/kg           | RL              | mg/kg           | RL              | mg/kg           | RL              |         |
| Chloride                          |  | 123               | 4.99            | 12.8            | 4.93            | 133             | 4.90            | 2990            | 24.8    |
| <b>TPH by SW8015 Mod</b>          |  | <b>Extracted:</b> | Dec-28-17 15:00 |         |
|                                   |  | <b>Analyzed:</b>  | Dec-29-17 02:00 | Dec-29-17 02:20 | Dec-29-17 05:02 | Dec-29-17 05:22 | Dec-29-17 15:21 | Dec-29-17 03:41 |         |
|                                   |  | <b>Units/RL:</b>  | mg/kg           | RL              | mg/kg           | RL              | mg/kg           | RL              |         |
| Gasoline Range Hydrocarbons (GRO) |  | <15.0             | 15.0            | <15.0           | 15.0            | <15.0           | 15.0            | 19.1            | 15.0    |
| Diesel Range Organics (DRO)       |  | 115               | 15.0            | <15.0           | 15.0            | <15.0           | 15.0            | 808             | 15.0    |
| Oil Range Hydrocarbons (ORO)      |  | 29.0              | 15.0            | <15.0           | 15.0            | 24.6            | 15.0            | 99.2            | 15.0    |
| Total TPH                         |  | 144               | 15.0            | <15.0           | 15.0            | 103             | 15.0            | 926             | 15.0    |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.  
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.  
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor  
Project Manager



# Certificate of Analysis Summary 572250

## Remediation and Environmental Xperts, LLC, Big Spring, TX



**Project Name:** Steward

**Project Id:**

**Contact:** Rex Rainey

**Project Location:** Heisenberg 7H

**Date Received in Lab:** Thu Dec-28-17 03:00 pm

**Report Date:** 04-JAN-18

**Project Manager:** Holly Taylor

| <b>Analysis Requested</b>         |  | <b>Lab Id:</b>    | 572250-013      | 572250-014      | 572250-015      | 572250-016      |         |          |         |
|-----------------------------------|--|-------------------|-----------------|-----------------|-----------------|-----------------|---------|----------|---------|
|                                   |  | <b>Field Id:</b>  | Spot 19         | Spot 19         | Spot 20         | Spot 20         |         |          |         |
|                                   |  | <b>Depth:</b>     | surface- In     | 12- In          | Surface- In     | 12- In          |         |          |         |
|                                   |  | <b>Matrix:</b>    | SOIL            | SOIL            | SOIL            | SOIL            |         |          |         |
|                                   |  | <b>Sampled:</b>   | Dec-28-17 11:00 | Dec-28-17 11:15 | Dec-28-17 11:30 | Dec-28-17 11:45 |         |          |         |
| <b>BTEX by EPA 8021B</b>          |  | <b>Extracted:</b> | Dec-29-17 08:00 | Dec-29-17 08:00 | Dec-29-17 08:00 | Dec-29-17 08:00 |         |          |         |
|                                   |  | <b>Analyzed:</b>  | Dec-29-17 20:08 | Dec-29-17 20:27 | Dec-29-17 20:46 | Dec-29-17 21:05 |         |          |         |
|                                   |  | <b>Units/RL:</b>  | mg/kg           | RL              | mg/kg           | RL              | mg/kg   | RL       |         |
| Benzene                           |  | <0.00198          | 0.00198         | <0.00201        | 0.00201         | <0.00202        | 0.00202 | <0.00199 | 0.00199 |
| Toluene                           |  | <0.00198          | 0.00198         | <0.00201        | 0.00201         | <0.00202        | 0.00202 | <0.00199 | 0.00199 |
| Ethylbenzene                      |  | <0.00198          | 0.00198         | <0.00201        | 0.00201         | <0.00202        | 0.00202 | <0.00199 | 0.00199 |
| m,p-Xylenes                       |  | <0.00397          | 0.00397         | <0.00402        | 0.00402         | <0.00403        | 0.00403 | <0.00398 | 0.00398 |
| o-Xylene                          |  | <0.00198          | 0.00198         | <0.00201        | 0.00201         | <0.00202        | 0.00202 | <0.00199 | 0.00199 |
| Total Xylenes                     |  | <0.00198          | 0.00198         | <0.00201        | 0.00201         | <0.00202        | 0.00202 | <0.00199 | 0.00199 |
| Total BTEX                        |  | <0.00198          | 0.00198         | <0.00201        | 0.00201         | <0.00202        | 0.00202 | <0.00199 | 0.00199 |
| <b>Chloride by EPA 300</b>        |  | <b>Extracted:</b> | Dec-29-17 10:00 | Dec-29-17 10:00 | Dec-29-17 10:00 | Dec-29-17 10:00 |         |          |         |
|                                   |  | <b>Analyzed:</b>  | Dec-29-17 15:50 | Dec-29-17 15:57 | Dec-29-17 16:04 | Dec-29-17 16:11 |         |          |         |
|                                   |  | <b>Units/RL:</b>  | mg/kg           | RL              | mg/kg           | RL              | mg/kg   | RL       |         |
| Chloride                          |  | 578               | 4.91            | 16.0            | 4.91            | 186             | 4.95    | <4.97    | 4.97    |
| <b>TPH by SW8015 Mod</b>          |  | <b>Extracted:</b> | Dec-28-17 15:00 | Dec-28-17 15:00 | Dec-28-17 15:00 | Dec-28-17 15:00 |         |          |         |
|                                   |  | <b>Analyzed:</b>  | Dec-29-17 05:42 | Dec-29-17 04:02 | Dec-29-17 04:22 | Dec-29-17 04:42 |         |          |         |
|                                   |  | <b>Units/RL:</b>  | mg/kg           | RL              | mg/kg           | RL              | mg/kg   | RL       |         |
| Gasoline Range Hydrocarbons (GRO) |  | <15.0             | 15.0            | <15.0           | 15.0            | <15.0           | 15.0    | <15.0    | 15.0    |
| Diesel Range Organics (DRO)       |  | 104               | 15.0            | <15.0           | 15.0            | <15.0           | 15.0    | <15.0    | 15.0    |
| Oil Range Hydrocarbons (ORO)      |  | 16.5              | 15.0            | <15.0           | 15.0            | <15.0           | 15.0    | <15.0    | 15.0    |
| Total TPH                         |  | 121               | 15.0            | <15.0           | 15.0            | <15.0           | 15.0    | <15.0    | 15.0    |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.  
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.  
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.  
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor  
Project Manager

# **Analytical Report 572250**

**for**

## **Remediation and Environmental Xperts, LLC**

**Project Manager: Rex Rainey**

**Steward**

**04-JAN-18**

Collected By: Client



**1211 W. Florida Ave, Midland TX 79701**

Xenco-Houston (EPA Lab code: TX00122):  
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):  
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)  
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)  
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)  
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

04-JAN-18

Project Manager: **Rex Rainey**  
**Remediation and Environmental Xperts, LLC**  
P.O. Box 2699  
Big Spring, TX 79720

Reference: XENCO Report No(s): **572250**

**Steward**

Project Address: Heisenberg 7H

**Rex Rainey:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 572250. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 572250 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



**Holly Taylor**

Project Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.*

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Remediation and Environmental Xperts, LLC, Big Spring, TX**

Steward

| <b>Sample Id</b> | <b>Matrix</b> | <b>Date Collected</b> | <b>Sample Depth</b> | <b>Lab Sample Id</b> |
|------------------|---------------|-----------------------|---------------------|----------------------|
| Spot 13          | S             | 12-28-17 08:06        | Surface             | 572250-001           |
| Spot 13          | S             | 12-28-17 08:15        | 12 In               | 572250-002           |
| Spot 14          | S             | 12-28-17 08:30        | Surface             | 572250-003           |
| Spot 14          | S             | 12-28-17 08:45        | 12 In               | 572250-004           |
| Spot 15          | S             | 12-28-17 09:00        | Surface In          | 572250-005           |
| Spot 15          | S             | 12-28-17 09:15        | 12 In               | 572250-006           |
| Spot 16          | S             | 12-28-17 09:30        | Surface In          | 572250-007           |
| Spot 16          | S             | 12-28-17 09:45        | 12 In               | 572250-008           |
| Spot 17          | S             | 12-28-17 10:00        | Surface In          | 572250-009           |
| Spot 17          | S             | 12-28-17 10:15        | 12 In               | 572250-010           |
| Spot 18          | S             | 12-28-17 10:30        | Surface In          | 572250-011           |
| Spot 18          | S             | 12-28-17 10:45        | 12 In               | 572250-012           |
| Spot 19          | S             | 12-28-17 11:00        | surface In          | 572250-013           |
| Spot 19          | S             | 12-28-17 11:15        | 12 In               | 572250-014           |
| Spot 20          | S             | 12-28-17 11:30        | Surface In          | 572250-015           |
| Spot 20          | S             | 12-28-17 11:45        | 12 In               | 572250-016           |



## CASE NARRATIVE

**Client Name:** Remediation and Environmental Xperts, LLC

**Project Name:** Steward

Project ID:

Work Order Number(s): 572250

Report Date: 04-JAN-18

Date Received: 12/28/2017

---

### Sample receipt non conformances and comments:

#### Sample receipt non conformances and comments per sample:

None

#### Analytical non conformances and comments:

Batch: LBA-3037330 BTEX by EPA 8021B

Lab Sample ID 572250-003 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 572250-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 13**  
 Lab Sample Id: 572250-001

Matrix: Soil  
 Date Received: 12.28.17 15.00  
 Date Collected: 12.28.17 08.06  
 Sample Depth: Surface

Analytical Method: Chloride by EPA 300  
 Tech: OJS  
 Analyst: OJS  
 Seq Number: 3037205

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result        | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|---------------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <b>238000</b> | 2480 | mg/kg | 01.02.18 11.39 |      | 500 |

Analytical Method: TPH by SW8015 Mod  
 Tech: JUM  
 Analyst: JUM  
 Seq Number: 3037191

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                         | Cas Number | Result      | RL         | Units | Analysis Date  | Flag           | Dil  |
|-----------------------------------|------------|-------------|------------|-------|----------------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <b>17.6</b> | 15.0       | mg/kg | 12.29.17 07.58 |                | 1    |
| Diesel Range Organics (DRO)       | C10C28DRO  | <b>4850</b> | 15.0       | mg/kg | 12.29.17 07.58 |                | 1    |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <b>622</b>  | 15.0       | mg/kg | 12.29.17 07.58 |                | 1    |
| Total TPH                         | PHC635     | <b>5490</b> | 15.0       | mg/kg | 12.29.17 07.58 |                | 1    |
| <b>Surrogate</b>                  |            |             | % Recovery | Units | Limits         | Analysis Date  | Flag |
| 1-Chlorooctane                    |            | 111-85-3    | 82         | %     | 70-135         | 12.29.17 07.58 |      |
| o-Terphenyl                       |            | 84-15-1     | 86         | %     | 70-135         | 12.29.17 07.58 |      |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 13**  
 Lab Sample Id: 572250-001

Matrix: Soil  
 Date Collected: 12.28.17 08.06

Date Received: 12.28.17 15.00  
 Sample Depth: Surface

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.29.17 08.00

Basis: Wet Weight

Seq Number: 3037330

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.00201          | 0.00201           | mg/kg        | 12.29.17 22.21 | U                    | 1           |
| Toluene              | 108-88-3    | <0.00201          | 0.00201           | mg/kg        | 12.29.17 22.21 | U                    | 1           |
| <b>Ethylbenzene</b>  | 100-41-4    | <b>0.00331</b>    | 0.00201           | mg/kg        | 12.29.17 22.21 |                      | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.00402          | 0.00402           | mg/kg        | 12.29.17 22.21 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.00201          | 0.00201           | mg/kg        | 12.29.17 22.21 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.00201          | 0.00201           | mg/kg        | 12.29.17 22.21 | U                    | 1           |
| <b>Total BTEX</b>    |             | <b>0.00331</b>    | 0.00201           | mg/kg        | 12.29.17 22.21 |                      | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 86                | %            | 80-120         | 12.29.17 22.21       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 99                | %            | 80-120         | 12.29.17 22.21       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 13**  
Lab Sample Id: 572250-002

Matrix: Soil  
Date Received: 12.28.17 15.00  
Date Collected: 12.28.17 08.15  
Sample Depth: 12 In

Analytical Method: Chloride by EPA 300  
Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 12.29.17 10.00

Basis: Wet Weight

Seq Number: 3037205

| Parameter | Cas Number | Result      | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|-------------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <b>4670</b> | 50.0 | mg/kg | 01.02.18 11.46 |      | 10  |

Analytical Method: TPH by SW8015 Mod  
Prep Method: TX1005P

Tech: JUM

% Moisture:

Analyst: JUM

Date Prep: 12.28.17 15.00

Basis: Wet Weight

Seq Number: 3037191

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0      | 15.0  | mg/kg  | 12.29.17 00.36 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0      | 15.0  | mg/kg  | 12.29.17 00.36 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 12.29.17 00.36 | U    | 1   |
| Total TPH                         | PHC635     | <15.0      | 15.0  | mg/kg  | 12.29.17 00.36 | U    | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 77         | %     | 70-135 | 12.29.17 00.36 |      |     |
| o-Terphenyl                       | 84-15-1    | 79         | %     | 70-135 | 12.29.17 00.36 |      |     |



# Certificate of Analytical Results 572250



## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 13**

Matrix: **Soil**

Date Received: 12.28.17 15.00

Lab Sample Id: **572250-002**

Date Collected: **12.28.17 08.15**

Sample Depth: **12 In**

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5030B**

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: **12.29.17 08.00**

Basis: **Wet Weight**

Seq Number: **3037330**

| Parameter            | Cas Number  | Result         | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|----------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00199       | 0.00199 | mg/kg  | 12.29.17 16.16 | U    | 1   |
| Toluene              | 108-88-3    | <0.00199       | 0.00199 | mg/kg  | 12.29.17 16.16 | U    | 1   |
| <b>Ethylbenzene</b>  | 100-41-4    | <b>0.00274</b> | 0.00199 | mg/kg  | 12.29.17 16.16 |      | 1   |
| m,p-Xylenes          | 179601-23-1 | <0.00398       | 0.00398 | mg/kg  | 12.29.17 16.16 | U    | 1   |
| o-Xylene             | 95-47-6     | <0.00199       | 0.00199 | mg/kg  | 12.29.17 16.16 | U    | 1   |
| Total Xylenes        | 1330-20-7   | <0.00199       | 0.00199 | mg/kg  | 12.29.17 16.16 | U    | 1   |
| <b>Total BTEX</b>    |             | <b>0.00274</b> | 0.00199 | mg/kg  | 12.29.17 16.16 |      | 1   |
| Surrogate            | Cas Number  | % Recovery     | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4    | 81             | %       | 80-120 | 12.29.17 16.16 |      |     |
| 1,4-Difluorobenzene  | 540-36-3    | 88             | %       | 80-120 | 12.29.17 16.16 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 14**  
 Lab Sample Id: 572250-003

Matrix: Soil  
 Date Received: 12.28.17 15.00  
 Date Collected: 12.28.17 08.30  
 Sample Depth: Surface

Analytical Method: Chloride by EPA 300  
 Tech: OJS  
 Analyst: OJS  
 Seq Number: 3037205

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 322    | 4.97 | mg/kg | 12.29.17 13.52 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
 Tech: JUM  
 Analyst: JUM  
 Seq Number: 3037191

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                           | Cas Number | Result      | RL         | Units | Analysis Date  | Flag           | Dil  |
|-------------------------------------|------------|-------------|------------|-------|----------------|----------------|------|
| Gasoline Range Hydrocarbons (GRO)   | PHC610     | <15.0       | 15.0       | mg/kg | 12.29.17 06.02 | U              | 1    |
| <b>Diesel Range Organics (DRO)</b>  | C10C28DRO  | <b>2820</b> | 15.0       | mg/kg | 12.29.17 06.02 |                | 1    |
| <b>Oil Range Hydrocarbons (ORO)</b> | PHCG2835   | <b>3370</b> | 15.0       | mg/kg | 12.29.17 06.02 |                | 1    |
| <b>Total TPH</b>                    | PHC635     | <b>6190</b> | 15.0       | mg/kg | 12.29.17 06.02 |                | 1    |
| <b>Surrogate</b>                    |            |             | % Recovery | Units | Limits         | Analysis Date  | Flag |
| 1-Chlorooctane                      |            | 111-85-3    | 74         | %     | 70-135         | 12.29.17 06.02 |      |
| o-Terphenyl                         |            | 84-15-1     | 78         | %     | 70-135         | 12.29.17 06.02 |      |



# Certificate of Analytical Results 572250



## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 14** Matrix: **Soil** Date Received: 12.28.17 15.00  
Lab Sample Id: 572250-003 Date Collected: 12.28.17 08.30 Sample Depth: Surface  
Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 12.29.17 08.00 Basis: Wet Weight  
Seq Number: 3037330

| Parameter            | Cas Number  | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00200   | 0.00200 | mg/kg  | 12.29.17 14.59 | U    | 1   |
| Toluene              | 108-88-3    | <0.00200   | 0.00200 | mg/kg  | 12.29.17 14.59 | U    | 1   |
| Ethylbenzene         | 100-41-4    | <0.00200   | 0.00200 | mg/kg  | 12.29.17 14.59 | U    | 1   |
| m,p-Xylenes          | 179601-23-1 | <0.00399   | 0.00399 | mg/kg  | 12.29.17 14.59 | U    | 1   |
| o-Xylene             | 95-47-6     | <0.00200   | 0.00200 | mg/kg  | 12.29.17 14.59 | U    | 1   |
| Total Xylenes        | 1330-20-7   | <0.00200   | 0.00200 | mg/kg  | 12.29.17 14.59 | U    | 1   |
| Total BTEX           |             | <0.00200   | 0.00200 | mg/kg  | 12.29.17 14.59 | U    | 1   |
| Surrogate            | Cas Number  | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4    | 86         | %       | 80-120 | 12.29.17 14.59 |      |     |
| 1,4-Difluorobenzene  | 540-36-3    | 95         | %       | 80-120 | 12.29.17 14.59 |      |     |



# Certificate of Analytical Results 572250



## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 14** Matrix: **Soil** Date Received: 12.28.17 15.00  
Lab Sample Id: 572250-004 Date Collected: 12.28.17 08.45 Sample Depth: 12 In  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: OJS % Moisture:  
Analyst: OJS Date Prep: 12.29.17 10.00 Basis: Wet Weight  
Seq Number: 3037205

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 171    | 4.94 | mg/kg | 12.29.17 14.13 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: JUM % Moisture:  
Analyst: JUM Date Prep: 12.28.17 15.00 Basis: Wet Weight  
Seq Number: 3037191

| Parameter                           | Cas Number | Result      | RL    | Units  | Analysis Date  | Flag | Dil |
|-------------------------------------|------------|-------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)   | PHC610     | <15.0       | 15.0  | mg/kg  | 12.29.17 00.55 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b>  | C10C28DRO  | <b>1790</b> | 15.0  | mg/kg  | 12.29.17 00.55 |      | 1   |
| <b>Oil Range Hydrocarbons (ORO)</b> | PHCG2835   | <b>1960</b> | 15.0  | mg/kg  | 12.29.17 00.55 |      | 1   |
| <b>Total TPH</b>                    | PHC635     | <b>3750</b> | 15.0  | mg/kg  | 12.29.17 00.55 |      | 1   |
| Surrogate                           | Cas Number | % Recovery  | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                      | 111-85-3   | 82          | %     | 70-135 | 12.29.17 00.55 |      |     |
| o-Terphenyl                         | 84-15-1    | 83          | %     | 70-135 | 12.29.17 00.55 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 14** Matrix: **Soil** Date Received: 12.28.17 15.00  
 Lab Sample Id: 572250-004 Date Collected: 12.28.17 08.45 Sample Depth: 12 In  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
 Tech: ALJ % Moisture:  
 Analyst: ALJ Date Prep: 12.29.17 08.00 Basis: Wet Weight  
 Seq Number: 3037330

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.00202          | 0.00202           | mg/kg        | 12.29.17 16.35 | U                    | 1           |
| Toluene              | 108-88-3    | <0.00202          | 0.00202           | mg/kg        | 12.29.17 16.35 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.00202          | 0.00202           | mg/kg        | 12.29.17 16.35 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.00403          | 0.00403           | mg/kg        | 12.29.17 16.35 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.00202          | 0.00202           | mg/kg        | 12.29.17 16.35 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.00202          | 0.00202           | mg/kg        | 12.29.17 16.35 | U                    | 1           |
| Total BTEX           |             | <0.00202          | 0.00202           | mg/kg        | 12.29.17 16.35 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 90                | %            | 80-120         | 12.29.17 16.35       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 92                | %            | 80-120         | 12.29.17 16.35       |             |



# Certificate of Analytical Results 572250



## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 15**  
Lab Sample Id: 572250-005

Matrix: Soil  
Date Collected: 12.28.17 09.00

Date Received: 12.28.17 15.00  
Sample Depth: Surface In

Analytical Method: Chloride by EPA 300  
Tech: OJS  
Analyst: OJS  
Seq Number: 3037205

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight

| Parameter | Cas Number | Result     | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|------------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <b>169</b> | 4.92 | mg/kg | 12.29.17 14.20 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: JUM  
Analyst: JUM  
Seq Number: 3037191

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight

| Parameter                           | Cas Number | Result      | RL    | Units  | Analysis Date  | Flag | Dil |
|-------------------------------------|------------|-------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)   | PHC610     | <15.0       | 15.0  | mg/kg  | 12.29.17 01.16 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b>  | C10C28DRO  | <b>351</b>  | 15.0  | mg/kg  | 12.29.17 01.16 |      | 1   |
| <b>Oil Range Hydrocarbons (ORO)</b> | PHCG2835   | <b>59.2</b> | 15.0  | mg/kg  | 12.29.17 01.16 |      | 1   |
| <b>Total TPH</b>                    | PHC635     | <b>410</b>  | 15.0  | mg/kg  | 12.29.17 01.16 |      | 1   |
| Surrogate                           | Cas Number | % Recovery  | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                      | 111-85-3   | 81          | %     | 70-135 | 12.29.17 01.16 |      |     |
| o-Terphenyl                         | 84-15-1    | 81          | %     | 70-135 | 12.29.17 01.16 |      |     |



# Certificate of Analytical Results 572250



## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 15**  
Lab Sample Id: 572250-005

Matrix: Soil  
Date Collected: 12.28.17 09.00

Date Received: 12.28.17 15.00  
Sample Depth: Surface In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.29.17 08.00

Basis: Wet Weight

Seq Number: 3037330

| Parameter            | Cas Number  | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00201   | 0.00201 | mg/kg  | 12.29.17 17.18 | U    | 1   |
| Toluene              | 108-88-3    | <0.00201   | 0.00201 | mg/kg  | 12.29.17 17.18 | U    | 1   |
| Ethylbenzene         | 100-41-4    | <0.00201   | 0.00201 | mg/kg  | 12.29.17 17.18 | U    | 1   |
| m,p-Xylenes          | 179601-23-1 | <0.00402   | 0.00402 | mg/kg  | 12.29.17 17.18 | U    | 1   |
| o-Xylene             | 95-47-6     | <0.00201   | 0.00201 | mg/kg  | 12.29.17 17.18 | U    | 1   |
| Total Xylenes        | 1330-20-7   | <0.00201   | 0.00201 | mg/kg  | 12.29.17 17.18 | U    | 1   |
| Total BTEX           |             | <0.00201   | 0.00201 | mg/kg  | 12.29.17 17.18 | U    | 1   |
| Surrogate            | Cas Number  | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4    | 87         | %       | 80-120 | 12.29.17 17.18 |      |     |
| 1,4-Difluorobenzene  | 540-36-3    | 94         | %       | 80-120 | 12.29.17 17.18 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 15**  
Lab Sample Id: 572250-006

Matrix: Soil  
Date Received: 12.28.17 15.00  
Date Collected: 12.28.17 09.15  
Sample Depth: 12 In

Analytical Method: Chloride by EPA 300  
Tech: OJS  
Analyst: OJS  
Seq Number: 3037205

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 128    | 4.92 | mg/kg | 12.29.17 14.27 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: JUM  
Analyst: JUM  
Seq Number: 3037191

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0      | 15.0  | mg/kg  | 12.29.17 01.38 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0      | 15.0  | mg/kg  | 12.29.17 01.38 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 12.29.17 01.38 | U    | 1   |
| Total TPH                         | PHC635     | <15.0      | 15.0  | mg/kg  | 12.29.17 01.38 | U    | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 84         | %     | 70-135 | 12.29.17 01.38 |      |     |
| o-Terphenyl                       | 84-15-1    | 86         | %     | 70-135 | 12.29.17 01.38 |      |     |



# Certificate of Analytical Results 572250



## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 15** Matrix: **Soil** Date Received: 12.28.17 15.00  
Lab Sample Id: 572250-006 Date Collected: 12.28.17 09.15 Sample Depth: 12 In  
Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 12.29.17 08.00 Basis: Wet Weight  
Seq Number: 3037330

| Parameter            | Cas Number  | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00201   | 0.00201 | mg/kg  | 12.29.17 17.37 | U    | 1   |
| Toluene              | 108-88-3    | <0.00201   | 0.00201 | mg/kg  | 12.29.17 17.37 | U    | 1   |
| Ethylbenzene         | 100-41-4    | <0.00201   | 0.00201 | mg/kg  | 12.29.17 17.37 | U    | 1   |
| m,p-Xylenes          | 179601-23-1 | <0.00402   | 0.00402 | mg/kg  | 12.29.17 17.37 | U    | 1   |
| o-Xylene             | 95-47-6     | <0.00201   | 0.00201 | mg/kg  | 12.29.17 17.37 | U    | 1   |
| Total Xylenes        | 1330-20-7   | <0.00201   | 0.00201 | mg/kg  | 12.29.17 17.37 | U    | 1   |
| Total BTEX           |             | <0.00201   | 0.00201 | mg/kg  | 12.29.17 17.37 | U    | 1   |
| Surrogate            | Cas Number  | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 1,4-Difluorobenzene  | 540-36-3    | 90         | %       | 80-120 | 12.29.17 17.37 |      |     |
| 4-Bromofluorobenzene | 460-00-4    | 89         | %       | 80-120 | 12.29.17 17.37 |      |     |



# Certificate of Analytical Results 572250



## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 16** Matrix: **Soil** Date Received: 12.28.17 15.00  
Lab Sample Id: 572250-007 Date Collected: 12.28.17 09.30 Sample Depth: Surface In  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: OJS % Moisture:  
Analyst: OJS Date Prep: 12.29.17 10.00 Basis: Wet Weight  
Seq Number: 3037205

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 123    | 4.99 | mg/kg | 12.29.17 14.34 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: JUM % Moisture:  
Analyst: JUM Date Prep: 12.28.17 15.00 Basis: Wet Weight  
Seq Number: 3037191

| Parameter                           | Cas Number | Result      | RL    | Units  | Analysis Date  | Flag | Dil |
|-------------------------------------|------------|-------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)   | PHC610     | <15.0       | 15.0  | mg/kg  | 12.29.17 02.00 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b>  | C10C28DRO  | <b>115</b>  | 15.0  | mg/kg  | 12.29.17 02.00 |      | 1   |
| <b>Oil Range Hydrocarbons (ORO)</b> | PHCG2835   | <b>29.0</b> | 15.0  | mg/kg  | 12.29.17 02.00 |      | 1   |
| <b>Total TPH</b>                    | PHC635     | <b>144</b>  | 15.0  | mg/kg  | 12.29.17 02.00 |      | 1   |
| Surrogate                           | Cas Number | % Recovery  | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                      | 111-85-3   | 73          | %     | 70-135 | 12.29.17 02.00 |      |     |
| o-Terphenyl                         | 84-15-1    | 70          | %     | 70-135 | 12.29.17 02.00 |      |     |



# Certificate of Analytical Results 572250



## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 16**

Matrix: **Soil**

Date Received: 12.28.17 15.00

Lab Sample Id: **572250-007**

Date Collected: **12.28.17 09.30**

Sample Depth: **Surface In**

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5030B**

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: **12.29.17 08.00**

Basis: **Wet Weight**

Seq Number: **3037330**

| Parameter            | Cas Number  | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00199   | 0.00199 | mg/kg  | 12.29.17 17.57 | U    | 1   |
| Toluene              | 108-88-3    | <0.00199   | 0.00199 | mg/kg  | 12.29.17 17.57 | U    | 1   |
| Ethylbenzene         | 100-41-4    | <0.00199   | 0.00199 | mg/kg  | 12.29.17 17.57 | U    | 1   |
| m,p-Xylenes          | 179601-23-1 | <0.00398   | 0.00398 | mg/kg  | 12.29.17 17.57 | U    | 1   |
| o-Xylene             | 95-47-6     | <0.00199   | 0.00199 | mg/kg  | 12.29.17 17.57 | U    | 1   |
| Total Xylenes        | 1330-20-7   | <0.00199   | 0.00199 | mg/kg  | 12.29.17 17.57 | U    | 1   |
| Total BTEX           |             | <0.00199   | 0.00199 | mg/kg  | 12.29.17 17.57 | U    | 1   |
| Surrogate            | Cas Number  | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4    | 88         | %       | 80-120 | 12.29.17 17.57 |      |     |
| 1,4-Difluorobenzene  | 540-36-3    | 94         | %       | 80-120 | 12.29.17 17.57 |      |     |



# Certificate of Analytical Results 572250



## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 16**  
Lab Sample Id: 572250-008

Matrix: Soil  
Date Collected: 12.28.17 09.45

Date Received: 12.28.17 15.00  
Sample Depth: 12 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS  
Analyst: OJS  
Seq Number: 3037205

% Moisture:  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 12.8   | 4.93 | mg/kg | 12.29.17 14.41 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: JUM  
Analyst: JUM  
Seq Number: 3037191

% Moisture:  
Basis: Wet Weight

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0      | 15.0  | mg/kg  | 12.29.17 02.20 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0      | 15.0  | mg/kg  | 12.29.17 02.20 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 12.29.17 02.20 | U    | 1   |
| Total TPH                         | PHC635     | <15.0      | 15.0  | mg/kg  | 12.29.17 02.20 | U    | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 83         | %     | 70-135 | 12.29.17 02.20 |      |     |
| o-Terphenyl                       | 84-15-1    | 83         | %     | 70-135 | 12.29.17 02.20 |      |     |



# Certificate of Analytical Results 572250



## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 16** Matrix: **Soil** Date Received: 12.28.17 15.00  
Lab Sample Id: 572250-008 Date Collected: 12.28.17 09.45 Sample Depth: 12 In  
Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 12.29.17 08.00 Basis: Wet Weight  
Seq Number: 3037330

| Parameter            | Cas Number  | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00199   | 0.00199 | mg/kg  | 12.29.17 22.02 | U    | 1   |
| Toluene              | 108-88-3    | <0.00199   | 0.00199 | mg/kg  | 12.29.17 22.02 | U    | 1   |
| Ethylbenzene         | 100-41-4    | <0.00199   | 0.00199 | mg/kg  | 12.29.17 22.02 | U    | 1   |
| m,p-Xylenes          | 179601-23-1 | <0.00398   | 0.00398 | mg/kg  | 12.29.17 22.02 | U    | 1   |
| o-Xylene             | 95-47-6     | <0.00199   | 0.00199 | mg/kg  | 12.29.17 22.02 | U    | 1   |
| Total Xylenes        | 1330-20-7   | <0.00199   | 0.00199 | mg/kg  | 12.29.17 22.02 | U    | 1   |
| Total BTEX           |             | <0.00199   | 0.00199 | mg/kg  | 12.29.17 22.02 | U    | 1   |
| Surrogate            | Cas Number  | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4    | 84         | %       | 80-120 | 12.29.17 22.02 |      |     |
| 1,4-Difluorobenzene  | 540-36-3    | 93         | %       | 80-120 | 12.29.17 22.02 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 17**  
Lab Sample Id: 572250-009

Matrix: Soil  
Date Collected: 12.28.17 10.00

Date Received: 12.28.17 15.00  
Sample Depth: Surface In

Analytical Method: Chloride by EPA 300  
Tech: OJS  
Analyst: OJS  
Seq Number: 3037205

Prep Method: E300P  
% Moisture:

Date Prep: 12.29.17 10.00

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 133    | 4.90 | mg/kg | 12.29.17 14.55 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: JUM  
Analyst: JUM  
Seq Number: 3037191

Prep Method: TX1005P  
% Moisture:

Date Prep: 12.28.17 15.00

Basis: Wet Weight

| Parameter                           | Cas Number | Result      | RL         | Units | Analysis Date  | Flag           | Dil  |
|-------------------------------------|------------|-------------|------------|-------|----------------|----------------|------|
| Gasoline Range Hydrocarbons (GRO)   | PHC610     | <15.0       | 15.0       | mg/kg | 12.29.17 05.02 | U              | 1    |
| <b>Diesel Range Organics (DRO)</b>  | C10C28DRO  | <b>78.2</b> | 15.0       | mg/kg | 12.29.17 05.02 |                | 1    |
| <b>Oil Range Hydrocarbons (ORO)</b> | PHCG2835   | <b>24.6</b> | 15.0       | mg/kg | 12.29.17 05.02 |                | 1    |
| <b>Total TPH</b>                    | PHC635     | <b>103</b>  | 15.0       | mg/kg | 12.29.17 05.02 |                | 1    |
| <b>Surrogate</b>                    |            |             | % Recovery | Units | Limits         | Analysis Date  | Flag |
| 1-Chlorooctane                      |            | 111-85-3    | 72         | %     | 70-135         | 12.29.17 05.02 |      |
| o-Terphenyl                         |            | 84-15-1     | 70         | %     | 70-135         | 12.29.17 05.02 |      |



# Certificate of Analytical Results 572250



## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 17** Matrix: **Soil** Date Received: 12.28.17 15.00  
Lab Sample Id: 572250-009 Date Collected: 12.28.17 10.00 Sample Depth: Surface In  
Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 12.29.17 08.00 Basis: Wet Weight  
Seq Number: 3037330

| Parameter            | Cas Number  | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00198   | 0.00198 | mg/kg  | 12.29.17 21.43 | U    | 1   |
| Toluene              | 108-88-3    | <0.00198   | 0.00198 | mg/kg  | 12.29.17 21.43 | U    | 1   |
| Ethylbenzene         | 100-41-4    | <0.00198   | 0.00198 | mg/kg  | 12.29.17 21.43 | U    | 1   |
| m,p-Xylenes          | 179601-23-1 | <0.00396   | 0.00396 | mg/kg  | 12.29.17 21.43 | U    | 1   |
| o-Xylene             | 95-47-6     | <0.00198   | 0.00198 | mg/kg  | 12.29.17 21.43 | U    | 1   |
| Total Xylenes        | 1330-20-7   | <0.00198   | 0.00198 | mg/kg  | 12.29.17 21.43 | U    | 1   |
| Total BTEX           |             | <0.00198   | 0.00198 | mg/kg  | 12.29.17 21.43 | U    | 1   |
| Surrogate            | Cas Number  | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4    | 91         | %       | 80-120 | 12.29.17 21.43 |      |     |
| 1,4-Difluorobenzene  | 540-36-3    | 94         | %       | 80-120 | 12.29.17 21.43 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 17**  
 Lab Sample Id: 572250-010

Matrix: Soil  
 Date Received: 12.28.17 15.00  
 Date Collected: 12.28.17 10.15  
 Sample Depth: 12 In

Analytical Method: Chloride by EPA 300  
 Tech: OJS  
 Analyst: OJS  
 Seq Number: 3037205

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result      | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|-------------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <b>8.85</b> | 4.90 | mg/kg | 12.29.17 15.15 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
 Tech: JUM  
 Analyst: JUM  
 Seq Number: 3037191

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0      | 15.0  | mg/kg  | 12.29.17 05.22 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0      | 15.0  | mg/kg  | 12.29.17 05.22 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 12.29.17 05.22 | U    | 1   |
| Total TPH                         | PHC635     | <15.0      | 15.0  | mg/kg  | 12.29.17 05.22 | U    | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 80         | %     | 70-135 | 12.29.17 05.22 |      |     |
| o-Terphenyl                       | 84-15-1    | 81         | %     | 70-135 | 12.29.17 05.22 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 17**

Matrix: **Soil**

Date Received: 12.28.17 15.00

Lab Sample Id: **572250-010**

Date Collected: **12.28.17 10.15**

Sample Depth: **12 In**

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5030B**

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: **12.29.17 08.00**

Basis: **Wet Weight**

Seq Number: **3037330**

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.00202          | 0.00202           | mg/kg        | 12.29.17 21.24 | U                    | 1           |
| Toluene              | 108-88-3    | <0.00202          | 0.00202           | mg/kg        | 12.29.17 21.24 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.00202          | 0.00202           | mg/kg        | 12.29.17 21.24 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.00404          | 0.00404           | mg/kg        | 12.29.17 21.24 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.00202          | 0.00202           | mg/kg        | 12.29.17 21.24 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.00202          | 0.00202           | mg/kg        | 12.29.17 21.24 | U                    | 1           |
| Total BTEX           |             | <0.00202          | 0.00202           | mg/kg        | 12.29.17 21.24 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 87                | %            | 80-120         | 12.29.17 21.24       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 93                | %            | 80-120         | 12.29.17 21.24       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 18**  
Lab Sample Id: 572250-011

Matrix: Soil  
Date Received: 12.28.17 15.00  
Date Collected: 12.28.17 10.30  
Sample Depth: Surface In

Analytical Method: Chloride by EPA 300  
Tech: OJS  
Analyst: OJS  
Seq Number: 3037205

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 2990   | 24.8 | mg/kg | 12.29.17 15.36 |      | 5   |

Analytical Method: TPH by SW8015 Mod  
Tech: JUM  
Analyst: JUM  
Seq Number: 3037191

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 19.1       | 15.0  | mg/kg  | 12.29.17 15.21 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 808        | 15.0  | mg/kg  | 12.29.17 15.21 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 99.2       | 15.0  | mg/kg  | 12.29.17 15.21 |      | 1   |
| Total TPH                         | PHC635     | 926        | 15.0  | mg/kg  | 12.29.17 15.21 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 75         | %     | 70-135 | 12.29.17 15.21 |      |     |
| o-Terphenyl                       | 84-15-1    | 77         | %     | 70-135 | 12.29.17 15.21 |      |     |



# Certificate of Analytical Results 572250



## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 18**

Matrix: **Soil**

Date Received: 12.28.17 15.00

Lab Sample Id: **572250-011**

Date Collected: 12.28.17 10.30

Sample Depth: Surface In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: **12.29.17 08.00**

Basis: **Wet Weight**

Seq Number: **3037330**

| Parameter            | Cas Number  | Result         | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|----------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00200       | 0.00200 | mg/kg  | 12.29.17 19.29 | U    | 1   |
| Toluene              | 108-88-3    | <b>0.00552</b> | 0.00200 | mg/kg  | 12.29.17 19.29 |      | 1   |
| Ethylbenzene         | 100-41-4    | <b>0.0189</b>  | 0.00200 | mg/kg  | 12.29.17 19.29 |      | 1   |
| m,p-Xylenes          | 179601-23-1 | <b>0.0142</b>  | 0.00401 | mg/kg  | 12.29.17 19.29 |      | 1   |
| o-Xylene             | 95-47-6     | <b>0.0107</b>  | 0.00200 | mg/kg  | 12.29.17 19.29 |      | 1   |
| Total Xylenes        | 1330-20-7   | <b>0.0249</b>  | 0.00200 | mg/kg  | 12.29.17 19.29 |      | 1   |
| <b>Total BTEX</b>    |             | <b>0.0493</b>  | 0.00200 | mg/kg  | 12.29.17 19.29 |      | 1   |
| Surrogate            | Cas Number  | % Recovery     | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4    | 90             | %       | 80-120 | 12.29.17 19.29 |      |     |
| 1,4-Difluorobenzene  | 540-36-3    | 88             | %       | 80-120 | 12.29.17 19.29 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 18**  
Lab Sample Id: 572250-012

Matrix: Soil  
Date Collected: 12.28.17 10.45

Date Received: 12.28.17 15.00  
Sample Depth: 12 In

Analytical Method: Chloride by EPA 300  
Tech: OJS  
Analyst: OJS  
Seq Number: 3037205

Prep Method: E300P  
% Moisture:

Date Prep: 12.29.17 10.00

Basis: Wet Weight

| Parameter | Cas Number | Result     | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|------------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <b>576</b> | 4.99 | mg/kg | 12.29.17 15.43 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: JUM  
Analyst: JUM  
Seq Number: 3037191

Prep Method: TX1005P  
% Moisture:

Date Prep: 12.28.17 15.00

Basis: Wet Weight

| Parameter                          | Cas Number | Result      | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|-------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <15.0       | 15.0  | mg/kg  | 12.29.17 03.41 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | <b>86.2</b> | 15.0  | mg/kg  | 12.29.17 03.41 |      | 1   |
| Oil Range Hydrocarbons (ORO)       | PHCG2835   | <15.0       | 15.0  | mg/kg  | 12.29.17 03.41 | U    | 1   |
| <b>Total TPH</b>                   | PHC635     | <b>86.2</b> | 15.0  | mg/kg  | 12.29.17 03.41 |      | 1   |
| Surrogate                          | Cas Number | % Recovery  | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 74          | %     | 70-135 | 12.29.17 03.41 |      |     |
| o-Terphenyl                        | 84-15-1    | 73          | %     | 70-135 | 12.29.17 03.41 |      |     |



# Certificate of Analytical Results 572250



## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 18**

Matrix: **Soil**

Date Received: 12.28.17 15.00

Lab Sample Id: **572250-012**

Date Collected: **12.28.17 10.45**

Sample Depth: **12 In**

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5030B**

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: **12.29.17 08.00**

Basis: **Wet Weight**

Seq Number: **3037330**

| Parameter            | Cas Number  | Result         | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|----------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00200       | 0.00200 | mg/kg  | 12.29.17 19.49 | U    | 1   |
| Toluene              | 108-88-3    | <0.00200       | 0.00200 | mg/kg  | 12.29.17 19.49 | U    | 1   |
| <b>Ethylbenzene</b>  | 100-41-4    | <b>0.00772</b> | 0.00200 | mg/kg  | 12.29.17 19.49 |      | 1   |
| <b>m,p-Xylenes</b>   | 179601-23-1 | <b>0.00895</b> | 0.00399 | mg/kg  | 12.29.17 19.49 |      | 1   |
| <b>o-Xylene</b>      | 95-47-6     | <b>0.00479</b> | 0.00200 | mg/kg  | 12.29.17 19.49 |      | 1   |
| <b>Total Xylenes</b> | 1330-20-7   | <b>0.0137</b>  | 0.00200 | mg/kg  | 12.29.17 19.49 |      | 1   |
| <b>Total BTEX</b>    |             | <b>0.0215</b>  | 0.00200 | mg/kg  | 12.29.17 19.49 |      | 1   |
| Surrogate            | Cas Number  | % Recovery     | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4    | 94             | %       | 80-120 | 12.29.17 19.49 |      |     |
| 1,4-Difluorobenzene  | 540-36-3    | 94             | %       | 80-120 | 12.29.17 19.49 |      |     |



# Certificate of Analytical Results 572250



## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 19** Matrix: Soil Date Received: 12.28.17 15.00  
Lab Sample Id: 572250-013 Date Collected: 12.28.17 11.00 Sample Depth: surface In  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: OJS % Moisture:  
Analyst: OJS Date Prep: 12.29.17 10.00 Basis: Wet Weight  
Seq Number: 3037205

| Parameter | Cas Number | Result     | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|------------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <b>578</b> | 4.91 | mg/kg | 12.29.17 15.50 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: JUM % Moisture:  
Analyst: JUM Date Prep: 12.28.17 15.00 Basis: Wet Weight  
Seq Number: 3037191

| Parameter                           | Cas Number | Result      | RL    | Units  | Analysis Date  | Flag | Dil |
|-------------------------------------|------------|-------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)   | PHC610     | <15.0       | 15.0  | mg/kg  | 12.29.17 05.42 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b>  | C10C28DRO  | <b>104</b>  | 15.0  | mg/kg  | 12.29.17 05.42 |      | 1   |
| <b>Oil Range Hydrocarbons (ORO)</b> | PHCG2835   | <b>16.5</b> | 15.0  | mg/kg  | 12.29.17 05.42 |      | 1   |
| <b>Total TPH</b>                    | PHC635     | <b>121</b>  | 15.0  | mg/kg  | 12.29.17 05.42 |      | 1   |
| Surrogate                           | Cas Number | % Recovery  | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                      | 111-85-3   | 71          | %     | 70-135 | 12.29.17 05.42 |      |     |
| o-Terphenyl                         | 84-15-1    | 71          | %     | 70-135 | 12.29.17 05.42 |      |     |



# Certificate of Analytical Results 572250



## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 19**

Matrix: **Soil**

Date Received: 12.28.17 15.00

Lab Sample Id: **572250-013**

Date Collected: **12.28.17 11.00**

Sample Depth: **surface In**

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5030B**

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: **12.29.17 08.00**

Basis: **Wet Weight**

Seq Number: **3037330**

| Parameter            | Cas Number  | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00198   | 0.00198 | mg/kg  | 12.29.17 20.08 | U    | 1   |
| Toluene              | 108-88-3    | <0.00198   | 0.00198 | mg/kg  | 12.29.17 20.08 | U    | 1   |
| Ethylbenzene         | 100-41-4    | <0.00198   | 0.00198 | mg/kg  | 12.29.17 20.08 | U    | 1   |
| m,p-Xylenes          | 179601-23-1 | <0.00397   | 0.00397 | mg/kg  | 12.29.17 20.08 | U    | 1   |
| o-Xylene             | 95-47-6     | <0.00198   | 0.00198 | mg/kg  | 12.29.17 20.08 | U    | 1   |
| Total Xylenes        | 1330-20-7   | <0.00198   | 0.00198 | mg/kg  | 12.29.17 20.08 | U    | 1   |
| Total BTEX           |             | <0.00198   | 0.00198 | mg/kg  | 12.29.17 20.08 | U    | 1   |
| Surrogate            | Cas Number  | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 1,4-Difluorobenzene  | 540-36-3    | 94         | %       | 80-120 | 12.29.17 20.08 |      |     |
| 4-Bromofluorobenzene | 460-00-4    | 94         | %       | 80-120 | 12.29.17 20.08 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 19** Matrix: Soil Date Received: 12.28.17 15.00  
 Lab Sample Id: 572250-014 Date Collected: 12.28.17 11.15 Sample Depth: 12 In  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: OJS % Moisture:  
 Analyst: OJS Date Prep: 12.29.17 10.00 Basis: Wet Weight  
 Seq Number: 3037205

| Parameter | Cas Number | Result      | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|-------------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <b>16.0</b> | 4.91 | mg/kg | 12.29.17 15.57 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
 Tech: JUM % Moisture:  
 Analyst: JUM Date Prep: 12.28.17 15.00 Basis: Wet Weight  
 Seq Number: 3037191

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0      | 15.0  | mg/kg  | 12.29.17 04.02 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0      | 15.0  | mg/kg  | 12.29.17 04.02 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 12.29.17 04.02 | U    | 1   |
| Total TPH                         | PHC635     | <15.0      | 15.0  | mg/kg  | 12.29.17 04.02 | U    | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 73         | %     | 70-135 | 12.29.17 04.02 |      |     |
| o-Terphenyl                       | 84-15-1    | 73         | %     | 70-135 | 12.29.17 04.02 |      |     |



# Certificate of Analytical Results 572250



## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 19** Matrix: **Soil** Date Received: 12.28.17 15.00  
Lab Sample Id: 572250-014 Date Collected: 12.28.17 11.15 Sample Depth: 12 In  
Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 12.29.17 08.00 Basis: Wet Weight  
Seq Number: 3037330

| Parameter            | Cas Number  | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00201   | 0.00201 | mg/kg  | 12.29.17 20.27 | U    | 1   |
| Toluene              | 108-88-3    | <0.00201   | 0.00201 | mg/kg  | 12.29.17 20.27 | U    | 1   |
| Ethylbenzene         | 100-41-4    | <0.00201   | 0.00201 | mg/kg  | 12.29.17 20.27 | U    | 1   |
| m,p-Xylenes          | 179601-23-1 | <0.00402   | 0.00402 | mg/kg  | 12.29.17 20.27 | U    | 1   |
| o-Xylene             | 95-47-6     | <0.00201   | 0.00201 | mg/kg  | 12.29.17 20.27 | U    | 1   |
| Total Xylenes        | 1330-20-7   | <0.00201   | 0.00201 | mg/kg  | 12.29.17 20.27 | U    | 1   |
| Total BTEX           |             | <0.00201   | 0.00201 | mg/kg  | 12.29.17 20.27 | U    | 1   |
| Surrogate            | Cas Number  | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 1,4-Difluorobenzene  | 540-36-3    | 89         | %       | 80-120 | 12.29.17 20.27 |      |     |
| 4-Bromofluorobenzene | 460-00-4    | 86         | %       | 80-120 | 12.29.17 20.27 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 20**  
 Lab Sample Id: 572250-015

Matrix: Soil  
 Date Received: 12.28.17 15.00  
 Date Collected: 12.28.17 11.30  
 Sample Depth: Surface In

Analytical Method: Chloride by EPA 300  
 Tech: OJS  
 Analyst: OJS  
 Seq Number: 3037205

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 186    | 4.95 | mg/kg | 12.29.17 16.04 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
 Tech: JUM  
 Analyst: JUM  
 Seq Number: 3037191

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0      | 15.0  | mg/kg  | 12.29.17 04.22 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0      | 15.0  | mg/kg  | 12.29.17 04.22 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 12.29.17 04.22 | U    | 1   |
| Total TPH                         | PHC635     | <15.0      | 15.0  | mg/kg  | 12.29.17 04.22 | U    | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 72         | %     | 70-135 | 12.29.17 04.22 |      |     |
| o-Terphenyl                       | 84-15-1    | 70         | %     | 70-135 | 12.29.17 04.22 |      |     |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 20**

Matrix: **Soil**

Date Received: 12.28.17 15.00

Lab Sample Id: **572250-015**

Date Collected: **12.28.17 11.30**

Sample Depth: **Surface In**

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5030B**

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: **12.29.17 08.00**

Basis: **Wet Weight**

Seq Number: **3037330**

| Parameter            | Cas Number  | Result            | RL                | Units        | Analysis Date  | Flag                 | Dil         |
|----------------------|-------------|-------------------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene              | 71-43-2     | <0.00202          | 0.00202           | mg/kg        | 12.29.17 20.46 | U                    | 1           |
| Toluene              | 108-88-3    | <0.00202          | 0.00202           | mg/kg        | 12.29.17 20.46 | U                    | 1           |
| Ethylbenzene         | 100-41-4    | <0.00202          | 0.00202           | mg/kg        | 12.29.17 20.46 | U                    | 1           |
| m,p-Xylenes          | 179601-23-1 | <0.00403          | 0.00403           | mg/kg        | 12.29.17 20.46 | U                    | 1           |
| o-Xylene             | 95-47-6     | <0.00202          | 0.00202           | mg/kg        | 12.29.17 20.46 | U                    | 1           |
| Total Xylenes        | 1330-20-7   | <0.00202          | 0.00202           | mg/kg        | 12.29.17 20.46 | U                    | 1           |
| Total BTEX           |             | <0.00202          | 0.00202           | mg/kg        | 12.29.17 20.46 | U                    | 1           |
| <b>Surrogate</b>     |             | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b>  | <b>Analysis Date</b> | <b>Flag</b> |
| 4-Bromofluorobenzene |             | 460-00-4          | 93                | %            | 80-120         | 12.29.17 20.46       |             |
| 1,4-Difluorobenzene  |             | 540-36-3          | 93                | %            | 80-120         | 12.29.17 20.46       |             |

## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 20**  
 Lab Sample Id: 572250-016

Matrix: Soil  
 Date Received: 12.28.17 15.00  
 Date Collected: 12.28.17 11.45  
 Sample Depth: 12 In

Analytical Method: Chloride by EPA 300  
 Tech: OJS  
 Analyst: OJS  
 Seq Number: 3037205

Prep Method: E300P  
 % Moisture:  
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.97  | 4.97 | mg/kg | 12.29.17 16.11 | U    | 1   |

Analytical Method: TPH by SW8015 Mod  
 Tech: JUM  
 Analyst: JUM  
 Seq Number: 3037191

Prep Method: TX1005P  
 % Moisture:  
 Basis: Wet Weight

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0      | 15.0  | mg/kg  | 12.29.17 04.42 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0      | 15.0  | mg/kg  | 12.29.17 04.42 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 12.29.17 04.42 | U    | 1   |
| Total TPH                         | PHC635     | <15.0      | 15.0  | mg/kg  | 12.29.17 04.42 | U    | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 76         | %     | 70-135 | 12.29.17 04.42 |      |     |
| o-Terphenyl                       | 84-15-1    | 75         | %     | 70-135 | 12.29.17 04.42 |      |     |



# Certificate of Analytical Results 572250



## Remediation and Environmental Xperts, LLC, Big Spring, TX Steward

Sample Id: **Spot 20** Matrix: **Soil** Date Received: 12.28.17 15.00  
Lab Sample Id: 572250-016 Date Collected: 12.28.17 11.45 Sample Depth: 12 In  
Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 12.29.17 08.00 Basis: Wet Weight  
Seq Number: 3037330

| Parameter            | Cas Number  | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00199   | 0.00199 | mg/kg  | 12.29.17 21.05 | U    | 1   |
| Toluene              | 108-88-3    | <0.00199   | 0.00199 | mg/kg  | 12.29.17 21.05 | U    | 1   |
| Ethylbenzene         | 100-41-4    | <0.00199   | 0.00199 | mg/kg  | 12.29.17 21.05 | U    | 1   |
| m,p-Xylenes          | 179601-23-1 | <0.00398   | 0.00398 | mg/kg  | 12.29.17 21.05 | U    | 1   |
| o-Xylene             | 95-47-6     | <0.00199   | 0.00199 | mg/kg  | 12.29.17 21.05 | U    | 1   |
| Total Xylenes        | 1330-20-7   | <0.00199   | 0.00199 | mg/kg  | 12.29.17 21.05 | U    | 1   |
| Total BTEX           |             | <0.00199   | 0.00199 | mg/kg  | 12.29.17 21.05 | U    | 1   |
| Surrogate            | Cas Number  | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4    | 89         | %       | 80-120 | 12.29.17 21.05 |      |     |
| 1,4-Difluorobenzene  | 540-36-3    | 94         | %       | 80-120 | 12.29.17 21.05 |      |     |



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***

***Certified and approved by numerous States and Agencies.***

***A Small Business and Minority Status Company that delivers SERVICE and QUALITY***

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

4147 Greenbriar Dr, Stafford, TX 77477  
 9701 Harry Hines Blvd , Dallas, TX 75220  
 5332 Blackberry Drive, San Antonio TX 78238  
 1211 W Florida Ave, Midland, TX 79701  
 2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282

| Phone          | Fax            |
|----------------|----------------|
| (281) 240-4200 | (281) 240-4280 |
| (214) 902 0300 | (214) 351-9139 |
| (210) 509-3334 | (210) 509-3335 |
| (432) 563-1800 | (432) 563-1713 |
| (602) 437-0330 |                |



## Remediation and Environmental Xperts, LLC

Steward

## Analytical Method: Chloride by EPA 300

|                  |                  |                     |                   |                 |                    |                  |   |
|------------------|------------------|---------------------|-------------------|-----------------|--------------------|------------------|---|
| Seq Number:      | 3037205          | Matrix:             | Solid             |                 |                    | Prep Method:     | E300P                                   |
| MB Sample Id:    | 7636757-1-BLK    | LCS Sample Id:      | 7636757-1-BKS     |                 |                    | Date Prep:       | 12.29.17                                |
| <b>Parameter</b> | <b>MB Result</b> | <b>Spike Amount</b> | <b>LCS Result</b> | <b>LCS %Rec</b> | <b>LCSD Result</b> | <b>LCSD %Rec</b> | <b>Limits</b>                           |
| Chloride         | <5.00            | 250                 | 248               | 99              | 241                | 96               | 90-110                                  |
|                  |                  |                     |                   |                 |                    |                  | %RPD RPD Limit Units Analysis Date Flag |
|                  |                  |                     |                   |                 |                    |                  | mg/kg 12.29.17 12:56                    |

## Analytical Method: Chloride by EPA 300

|                   |                      |                     |                  |                |                   |                 |   |
|-------------------|----------------------|---------------------|------------------|----------------|-------------------|-----------------|---|
| Seq Number:       | 3037205              | Matrix:             | Soil             |                |                   | Prep Method:    | E300P                                   |
| Parent Sample Id: | 572154-003           | MS Sample Id:       | 572154-003 S     |                |                   | Date Prep:      | 12.29.17                                |
| <b>Parameter</b>  | <b>Parent Result</b> | <b>Spike Amount</b> | <b>MS Result</b> | <b>MS %Rec</b> | <b>MSD Result</b> | <b>MSD %Rec</b> | <b>Limits</b>                           |
| Chloride          | 179                  | 248                 | 425              | 99             | 440               | 105             | 90-110                                  |
|                   |                      |                     |                  |                |                   |                 | %RPD RPD Limit Units Analysis Date Flag |
|                   |                      |                     |                  |                |                   |                 | mg/kg 12.29.17 13:17                    |

## Analytical Method: Chloride by EPA 300

|                   |                      |                     |                  |                |                   |                 |   |
|-------------------|----------------------|---------------------|------------------|----------------|-------------------|-----------------|---|
| Seq Number:       | 3037205              | Matrix:             | Soil             |                |                   | Prep Method:    | E300P                                   |
| Parent Sample Id: | 572250-009           | MS Sample Id:       | 572250-009 S     |                |                   | Date Prep:      | 12.29.17                                |
| <b>Parameter</b>  | <b>Parent Result</b> | <b>Spike Amount</b> | <b>MS Result</b> | <b>MS %Rec</b> | <b>MSD Result</b> | <b>MSD %Rec</b> | <b>Limits</b>                           |
| Chloride          | 133                  | 245                 | 388              | 104            | 375               | 99              | 90-110                                  |
|                   |                      |                     |                  |                |                   |                 | %RPD RPD Limit Units Analysis Date Flag |
|                   |                      |                     |                  |                |                   |                 | mg/kg 12.29.17 15:02                    |

## Analytical Method: TPH by SW8015 Mod

|                                   |                  |                     |                   |                 |                    |                  |                     |
|-----------------------------------|------------------|---------------------|-------------------|-----------------|--------------------|------------------|---------------------|
| Seq Number:                       | 3037191          | Matrix:             | Solid             |                 |                    | Prep Method:     | TX1005P             |
| MB Sample Id:                     | 7636779-1-BLK    | LCS Sample Id:      | 7636779-1-BKS     |                 |                    | Date Prep:       | 12.28.17            |
| <b>Parameter</b>                  | <b>MB Result</b> | <b>Spike Amount</b> | <b>LCS Result</b> | <b>LCS %Rec</b> | <b>LCSD Result</b> | <b>LCSD %Rec</b> | <b>Limits</b>       |
| Gasoline Range Hydrocarbons (GRO) | <15.0            | 1000                | 840               | 84              | 918                | 92               | 70-135              |
| Diesel Range Organics (DRO)       | <15.0            | 1000                | 838               | 84              | 917                | 92               | 70-135              |
| <b>Surrogate</b>                  | <b>MB %Rec</b>   | <b>MB Flag</b>      | <b>LCS %Rec</b>   | <b>LCS Flag</b> | <b>LCSD %Rec</b>   | <b>LCSD Flag</b> | <b>Limits</b>       |
| 1-Chlorooctane                    | 92               |                     | 89                |                 | 96                 |                  | 70-135              |
| o-Terphenyl                       | 91               |                     | 91                |                 | 100                |                  | 70-135              |
|                                   |                  |                     |                   |                 |                    |                  | Units Analysis Date |
|                                   |                  |                     |                   |                 |                    |                  | % 12.28.17 22:15    |
|                                   |                  |                     |                   |                 |                    |                  | % 12.28.17 22:15    |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery

[D] = 100\*(C-A) / B  
RPD = 200\* | (C-E) / (C+E) |  
[D] = 100 \* (C) / [B]

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



## Remediation and Environmental Xperts, LLC

Steward

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3037191

Matrix: Soil

Prep Method: TX1005P

Date Prep: 12.28.17

Parent Sample Id: 572154-003

MS Sample Id: 572154-003 S

MSD Sample Id: 572154-003 SD

| Parameter                         | Parent Result | Spike Amount | MS Result      | MS %Rec        | MSD Result      | MSD %Rec        | Limits | %RPD | RPD Limit     | Units        | Analysis Date        | Flag |
|-----------------------------------|---------------|--------------|----------------|----------------|-----------------|-----------------|--------|------|---------------|--------------|----------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0         | 1000         | 787            | 79             | 881             | 88              | 70-135 | 11   | 35            | mg/kg        | 12.28.17 23:56       |      |
| Diesel Range Organics (DRO)       | <15.0         | 1000         | 777            | 78             | 877             | 88              | 70-135 | 12   | 35            | mg/kg        | 12.28.17 23:56       |      |
| <b>Surrogate</b>                  |               |              | <b>MS %Rec</b> | <b>MS Flag</b> | <b>MSD %Rec</b> | <b>MSD Flag</b> |        |      | <b>Limits</b> | <b>Units</b> | <b>Analysis Date</b> |      |
| 1-Chlorooctane                    |               |              | 85             |                | 105             |                 | 70-135 |      |               | %            | 12.28.17 23:56       |      |
| o-Terphenyl                       |               |              | 83             |                | 92              |                 | 70-135 |      |               | %            | 12.28.17 23:56       |      |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3037330

Matrix: Solid

Prep Method: SW5030B

MB Sample Id: 7636889-1-BLK

LCS Sample Id: 7636889-1-BKS

Date Prep: 12.29.17

LCSD Sample Id: 7636889-1-BSD

| Parameter            | MB Result      | Spike Amount   | LCS Result      | LCS %Rec        | LCSD Result      | LCSD %Rec        | Limits | %RPD | RPD Limit     | Units        | Analysis Date        | Flag |
|----------------------|----------------|----------------|-----------------|-----------------|------------------|------------------|--------|------|---------------|--------------|----------------------|------|
| Benzene              | <0.00200       | 0.100          | 0.0885          | 89              | 0.0859           | 86               | 70-130 | 3    | 35            | mg/kg        | 12.29.17 12:46       |      |
| Toluene              | <0.00200       | 0.100          | 0.0830          | 83              | 0.0809           | 81               | 70-130 | 3    | 35            | mg/kg        | 12.29.17 12:46       |      |
| Ethylbenzene         | <0.00200       | 0.100          | 0.0932          | 93              | 0.0898           | 90               | 71-129 | 4    | 35            | mg/kg        | 12.29.17 12:46       |      |
| m,p-Xylenes          | <0.00401       | 0.200          | 0.184           | 92              | 0.177            | 89               | 70-135 | 4    | 35            | mg/kg        | 12.29.17 12:46       |      |
| o-Xylene             | <0.00200       | 0.100          | 0.0857          | 86              | 0.0828           | 83               | 71-133 | 3    | 35            | mg/kg        | 12.29.17 12:46       |      |
| <b>Surrogate</b>     | <b>MB %Rec</b> | <b>MB Flag</b> | <b>LCS %Rec</b> | <b>LCS Flag</b> | <b>LCSD %Rec</b> | <b>LCSD Flag</b> |        |      | <b>Limits</b> | <b>Units</b> | <b>Analysis Date</b> |      |
| 1,4-Difluorobenzene  | 93             |                | 95              |                 | 99               |                  | 80-120 |      |               | %            | 12.29.17 12:46       |      |
| 4-Bromofluorobenzene | 91             |                | 98              |                 | 97               |                  | 80-120 |      |               | %            | 12.29.17 12:46       |      |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3037330

Matrix: Soil

Prep Method: SW5030B

Parent Sample Id: 572250-003

MS Sample Id: 572250-003 S

Date Prep: 12.29.17

MSD Sample Id: 572250-003 SD

| Parameter            | Parent Result | Spike Amount | MS Result      | MS %Rec        | MSD Result      | MSD %Rec        | Limits | %RPD | RPD Limit     | Units        | Analysis Date        | Flag |
|----------------------|---------------|--------------|----------------|----------------|-----------------|-----------------|--------|------|---------------|--------------|----------------------|------|
| Benzene              | <0.00199      | 0.0996       | 0.0669         | 67             | 0.0538          | 54              | 70-130 | 22   | 35            | mg/kg        | 12.29.17 13:23       | X    |
| Toluene              | <0.00199      | 0.0996       | 0.0468         | 47             | 0.0365          | 37              | 70-130 | 25   | 35            | mg/kg        | 12.29.17 13:23       | X    |
| Ethylbenzene         | <0.00199      | 0.0996       | 0.0365         | 37             | 0.0276          | 28              | 71-129 | 28   | 35            | mg/kg        | 12.29.17 13:23       | X    |
| m,p-Xylenes          | <0.00398      | 0.199        | 0.0696         | 35             | 0.0522          | 26              | 70-135 | 29   | 35            | mg/kg        | 12.29.17 13:23       | X    |
| o-Xylene             | <0.00199      | 0.0996       | 0.0348         | 35             | 0.0263          | 26              | 71-133 | 28   | 35            | mg/kg        | 12.29.17 13:23       | X    |
| <b>Surrogate</b>     |               |              | <b>MS %Rec</b> | <b>MS Flag</b> | <b>MSD %Rec</b> | <b>MSD Flag</b> |        |      | <b>Limits</b> | <b>Units</b> | <b>Analysis Date</b> |      |
| 1,4-Difluorobenzene  |               |              | 103            |                | 100             |                 | 80-120 |      |               | %            | 12.29.17 13:23       |      |
| 4-Bromofluorobenzene |               |              | 102            |                | 102             |                 | 80-120 |      |               | %            | 12.29.17 13:23       |      |

MS/MSD Percent Recovery  
 Relative Percent Difference  
 LCS/LCSD Recovery

[D] = 100\*(C-A) / B  
 RPD = 200\* | (C-E) / (C+E) |  
 [D] = 100 \* (C) / [B]

LCS = Laboratory Control Sample  
 A = Parent Result  
 C = MS/LCS Result  
 E = MSD/LCSD Result

MS = Matrix Spike  
 B = Spike Added  
 D = MSD/LCSD % Rec

# CHAIN OF CUSTODY

 Page 1 of 2

| Client / Reporting Information   |   | Project Information                       |   | Analytical Information                           |                                     | Matrix Codes   |   |
|--|---|---|---|--|-------------------------------------|--|---|
| Company Name / Branch:<br><b>REX, LLC</b>  |   | Project Name/Number:<br><b>Steward</b>    |   |  |                                     |  |   |
| Company Address:<br>P.O. BOX 2699<br>BIG SPRING, TX 79721  |   | Project Location:<br><b>Heisenberg TH</b> |   |  |                                     |  |   |
| Email: <a href="mailto:admin@oilfieldaltmedication.com">admin@oilfieldaltmedication.com</a> 432-212-3105<br><a href="http://www.oilfieldaltmedication.com">www.oilfieldaltmedication.com</a> |   | Invoice To:                               |   |  |                                     |  |   |
| Project Contact:<br>Rox Rainey and/or Roylyn Welch   |   | PO Number:                                |   |  |                                     |  |   |
| Sampler's Name   |   |   |   |  |                                     |  |   |
| No.  | Field ID / Point of Collection                  | Collection                                |   | Number of preserved bottles                      |                                     |  |   |
| 1  | Spot 13   | Sample Depth                              | Date                                    | Time   | Matrix                              | # of bottles   |   |
| 2  | Spot 13   | Surface                                   | 12/28                                   | 8:06   | ICL                                 | 1  | NaOH/Zn Acetate                         |
| 3  | Spot 14   | Surface                                   | 12/28                                   | 8:15   | HNO3                                | 1  | H2SO4                                   |
| 4  | Spot 14   | Surface                                   | 12/28                                   | 8:36   | NaOH                                | 1  | NaHSO4                                  |
| 5  | Spot 15   | Surface                                   | 12/28                                   | 8:45   | MEOH                                | 1  | NONE                                    |
| 6  | Spot 15   | Surface                                   | 12/28                                   | 9:00   |                                     |  | Chlorides                               |
| 7  | Spot 16   | Surface                                   | 12/28                                   | 9:15   |                                     |  | TPH                                     |
| 8  | Spot 16   | Surface                                   | 12/28                                   | 9:36   |                                     |  | BTEX                                    |
| 9  | Spot 17   | Surface                                   | 12/28                                   | 10:00  |                                     |  |   |
| 10   | Spot 17   | Surface                                   | 12/28                                   | 10:15  |                                     |  |   |
| Turnaround Time (Business days)  |   |   |   | Data Deliverable Information                     |                                     | Notes:   |   |
| <input type="checkbox"/> Same Day TAT  |   | <input type="checkbox"/> 5 Day TAT        |   | <input type="checkbox"/> Level II Std QC         |                                     | <input type="checkbox"/> Level IV (Full Data Pkg / raw data) |   |
| <input type="checkbox"/> Next Day EMERGENCY  |   | <input type="checkbox"/> 7 Day TAT        |   | <input type="checkbox"/> Level III Std QC+ Forms |                                     | <input type="checkbox"/> TRRP Level IV                       |   |
| <input type="checkbox"/> 2 Day EMERGENCY   |   | <input type="checkbox"/> Contract TAT     |   | <input type="checkbox"/> Level 3 (CLP Forms)     |                                     | <input type="checkbox"/> UST / RG -411                       |   |
| <input checked="" type="checkbox"/> 3 Day EMERGENCY  |   |   |   | <input type="checkbox"/> TRRP Checklist          |                                     |  |   |
| TAT Starts Day received by Lab, if received by 5:00 pm   |   |   |   |  |                                     |  |   |
| SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY  |   |   |   |  |                                     |  |   |
| 1  | Relinquished by Sampler:<br><i>Rex Williams</i> | Received By:<br><i>Rex Williams</i>       | Relinquished By:<br><i>Rex Williams</i> | Date Time:<br>12/28/17 2:45                      | Received By:<br><i>Rex Williams</i> | Date Time:<br>12/28/17 3:00                                  | Relinquished By:<br><i>Rex Williams</i> |
| 2  | Relinquished by:                                |   |   | Date Time:                                       | Date Time:                          | Date Time:   |   |
| 3  | Relinquished by:                                |   |   | Received By:                                     | Received By:                        | Received By:   |   |
| 4  | Date Time:                                      | Received By:                              | Custody Seal #                          | Preserved where applicable                       | On Ice                              | Cooler Temp.   | Thermo. Cor. Factor                     |

Notes: *IR ID:R-8*

Temp: *5.4* IR ID:R-8  
 CF:(0-6; -0.2°C)  
 (6-23; +0.2°C)  
 Corrected Temp: *5.2*

FED-EPA, UPS, tracking # *572250*

5

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless a previously negotiated under a fully executed client contract.

# CHAIN OF CUSTODY

Page 2 of 2

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

Midland, Texas (432-704-5251)

www.xenco.com

| Kenco Quote # | Xenco Job #   |
|---------------|---------------|
|               | <u>572250</u> |

| Client / Reporting Information  |                                | Project Information                       |                             | Analytical Information |              | Matrix Codes    |           |
|---|--------------------------------|---|-----------------------------|------------------------|--------------|-----------------|-----------|
| Company Name / Branch:<br><b>REX, LLC</b>   |                                | Project Name/Number:<br><b>Steward</b>    |                             |                        |              |                 |           |
| Company Address:<br>P. O. BOX 2699<br>BIG SPRING, TX 79721                                  |                                | Project Location:<br><b>Heisenberg TH</b> |                             |                        |              |                 |           |
| Email: <a href="mailto:admin@oilandsaltremediation.com">admin@oilandsaltremediation.com</a> | 432-213-3105                   | Invoice To:                               | <b>REX, LLC</b>             |                        |              |                 |           |
| Project Contact:<br>Ray Rainey and/or Roylyn Welch  |                                | PO Number:                                |                             |                        |              |                 |           |
| Sampler's Name  |                                |   |                             |                        |              |                 |           |
| No.   | Field ID / Point of Collection | Collection                                | Number of preserved bottles |                        |              |                 |           |
|   | Sample Depth                   | Date                                      | Time                        | Matrix                 | # of bottles | TIC             |           |
| 1   | Spot 18                        | 12/28                                     | 10:30                       |                        |              | NaOH/Zn Acetate | Chlorides |
| 2   | Spot 18                        | 12/28                                     | 10:45                       |                        |              | HNO3            | TPH       |
| 3   | Spot 19                        | 12/28                                     | 11:06                       |                        |              | H2SO4           | STEX      |
| 4   | Spot 19                        | 12/28                                     | 11:15                       |                        |              | NaOH            |           |
| 5   | Spot 20                        | 12/28                                     | 11:26                       |                        |              | NaHSO4          |           |
| 6   | Spot 20                        | 12/28                                     | 11:45                       |                        |              | MEOH            |           |
| 7   |                                |   |                             |                        |              | NONE            |           |
| 8   |                                |   |                             |                        |              |                 |           |
| 9   |                                |   |                             |                        |              |                 |           |
| 10  |                                |   |                             |                        |              |                 |           |

| Data Deliverable Information                        |                                       |
|---|---------------------------------------|
| <input type="checkbox"/> Same Day TAT               | <input type="checkbox"/> 5 Day TAT    |
| <input type="checkbox"/> Next Day EMERGENCY         | <input type="checkbox"/> 7 Day TAT    |
| <input type="checkbox"/> 2 Day EMERGENCY            | <input type="checkbox"/> Contract TAT |
| <input checked="" type="checkbox"/> 3 Day EMERGENCY |                                       |

FED-EX / UPS Tracking #

Temp: S. 4 IR ID:R-8  
CF:(0-6: -0.2°C)  
(6-23: +0.2°C)  
Corrected Temp: S. 2

On Ice

Cooler Temp. Thermo. Cor. Factor

| SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY |                                    |
|---|------------------------------------|
| Date Time: <u>12/26/17 2:45</u>   | Received By: <u>Rex Miller</u>     |
| Date Time: <u>12/28 3:00</u>  | Received By: <u>Rex Miller</u>     |
| Date Time: <u>12/28 3:00</u>  | Relinquished By: <u>Rex Miller</u> |
| Date Time: <u>12/28 3:00</u>  | Received By: <u>Rex Miller</u>     |



# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In



**Client:** Remediation and Environmental Xperts,  
**Date/ Time Received:** 12/28/2017 03:00:00 PM  
**Work Order #:** 572250

**Acceptable Temperature Range:** 0 - 6 degC  
**Air and Metal samples Acceptable Range:** Ambient  
**Temperature Measuring device used :** R8

| Sample Receipt Checklist                                | Comments |
|---|----------|
| #1 *Temperature of cooler(s)?                           | 5.2      |
| #2 *Shipping container in good condition?               | Yes      |
| #3 *Samples received on ice?                            | Yes      |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A      |
| #5 Custody Seals intact on sample bottles?              | N/A      |
| #6* Custody Seals Signed and dated?                     | N/A      |
| #7 *Chain of Custody present?                           | Yes      |
| #8 Any missing/extra samples?                           | No       |
| #9 Chain of Custody signed when relinquished/ received? | Yes      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes      |
| #11 Container label(s) legible and intact?              | Yes      |
| #12 Samples in proper container/ bottle?                | Yes      |
| #13 Samples properly preserved?                         | Yes      |
| #14 Sample container(s) intact?                         | Yes      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes      |
| #16 All samples received within hold time?              | Yes      |
| #17 Subcontract of sample(s)?                           | No       |
| #18 Water VOC samples have zero headspace?              | N/A      |

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst: PH Device/Lot#:

Checklist completed by:

\_\_\_\_\_  
Shawnee Smith

Date: 12/28/2017

Checklist reviewed by:

\_\_\_\_\_  
Holly Taylor

Date: 12/29/2017