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Midland, TX 79703

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September 7, 2017

Olivia Yu  
New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division, District 1  
1625 French Drive  
Hobbs, NM 88240

Henryetta Price  
Carlsbad Field Office  
United States Department of the Interior  
Bureau of Land Management  
620 E. Greene Street  
Carlsbad, New Mexico 88220

Re: Soil Investigation Summary and Proposed Remediation Workplan  
Gunslinger 11 Federal Com #001 (1RP-4651)  
GPS: N 32.582877° W 103.640467°  
Unit Letter "M", Section 11, Township 20 South, Range 33 East  
Lea County, New Mexico

Dear Ms. Yu and Ms. Price,

TRC Environmental Corporation (TRC), on behalf of COG Operating, LLC (COG) has prepared this Soil Investigation Summary and Proposed Remediation Workplan (Workplan) for the Gunslinger 11 Federal Com #001 Release Site (Release Site). The purpose of this Workplan is to propose remediation activities designed to advance the Gunslinger 11 Federal Com #001 Release Site toward a New Mexico Oil Conservation Division (NMOCD) approved Site Closure Status. The legal description of the Release Site is Unit Letter "M", Section 11, Township 20 South, Range 33 East, in Lea County, New Mexico. The GPS coordinates for the Site are N 32.582877° W 103.640467°. The subject property is administered by the United States Bureau of Land Management (BLM). A Site Location Map and Site Map are provided as Figure 1 and Figure 2, respectively.

On March 18, 2017, COG discovered a crude oil and produced water release, which occurred when a heater treater relief valve failed. The release was confined to the caliche pad of the location with overspray on the adjacent pasture and measured approximately 26,248 square feet in area. On March 22, 2017, a Release Notification and Corrective Action (Form C-141) was submitted to the NMOCD. During initial response activities, COG replaced the damaged pressure relief valve on the heater treater.

Approximately forty (40) barrels of fluid was released from the heater treater, with thirty (30) barrels of fluid recovered. The Form C-141 is attached to this report.

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) did not identify any registered water wells in Section 11, Township 20 South, Range 33 East. A reference map utilized by the NMOCD Hobbs District Office indicates groundwater should be encountered at approximately two hundred twenty-five (225) feet below ground surface (bgs). Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

No water wells were observed within one-thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

No surface water was observed within one-thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

Based on the NMOCD Site Classification criteria, the Release Site soil remediation levels are 10 mg/Kg for benzene, 50 mg/Kg for benzene, toluene, ethylbenzene and xylenes (BTEX), and five thousand (5,000) mg/Kg for total petroleum hydrocarbons (TPH). Per NMOCD request, chloride remediation levels for the Release Site will be six hundred (600) mg/Kg.

On June 30, 2017, a TRC Representative collected twenty one (21) delineation soil samples (Trench-1 1', Trench-1 3', Trench-1 5', Trench-1 8', Trench-2 6", Trench-2 1', Trench-2 3', Trench-2 5', Trench-2 8', Trench-3 6", Trench-3 1', Trench-3 3', Trench-3 5', Trench-3 8', Trench-4 6", Trench-4 1', Trench-4 3', Trench-4 5', Trench-4 8', Trench-4 11', and Trench-4 17') from the impacted area utilizing a backhoe. The soil samples were submitted to Xenco Laboratories in Midland, Texas for determination of concentrations of BTEX using Method SW 846-8021B, TPH using Method SW 846-8015M, and/or chloride using Method E 300.0/300.1. The analytical results indicated benzene concentrations were less than the applicable laboratory Method Detection Limit (MDL) for all submitted soil samples, with the exception of soil samples Trench-4 6" (0.0590 mg/Kg) and Trench-4 1' (0.174 mg/Kg). A review of laboratory analytical results indicated benzene concentrations were below NMOCD regulatory guidelines for the submitted soil samples. The laboratory results indicated BTEX concentrations ranged from less than the applicable laboratory MDL for soil samples Trench-1 3', Trench-1 5', Trench-1 8', Trench-2 6", Trench-2 1', Trench-2 3', Trench-2 5', Trench-2 8', Trench-3 5', Trench-4 11', and Trench-4 17' to 123.8 mg/Kg for soil sample Trench-4 5'. A review of laboratory analytical results indicate BTEX concentrations were below NMOCD regulatory guidelines, with the exception of soil samples Trench-4 1' (59.284 mg/Kg) and Trench-4 5' (123.8 mg/Kg). The laboratory results indicated TPH concentrations ranged from less than the applicable laboratory MDL for soil samples Trench-2 1', Trench-2 3', Trench-3 5', and Trench-4 17' to 11,531 mg/kg for soil sample Trench-4 6". A review of laboratory analytical results indicated TPH concentrations were below NMOCD regulatory guidelines for the submitted soil samples, with the exception of soil samples Trench-3 6" (10,479 mg/Kg), Trench-4 6" (11,531 mg/Kg), Trench-4 1' (8,548 mg/Kg), and Trench-4 5' (7,405 mg/Kg), which were above NMOCD regulatory guidelines. Chloride concentrations ranged from 7.33 mg/Kg for soil sample Trench-4 17' to 589 mg/Kg for soil sample Trench-3 6", indicating chloride concentrations were below

NMOCD regulatory guidelines for all of the submitted soil samples. The laboratory analytical results are attached to this report.

In addition, TRC collected five (5) samples (North Trench-1 1', East Trench-1 1', South Trench-1 1', West Trench-1 1', and West Trench-1 3') to the north, east, south and west of the visibly stained area to a depth ranging from approximately one (1) foot to three (3) feet bgs to determine the horizontal extent of the impacted area. The soil samples were submitted to Xenco Laboratories for BTEX, TPH, and chloride analysis. Laboratory analytical results indicated benzene concentrations were less than applicable laboratory MDL for the submitted soil samples, with the exception of soil sample West Trench-1 3' (0.660 mg/Kg). A review of laboratory analytical results indicate benzene concentrations were below NMOCD regulatory guidelines. Laboratory analytical results indicated BTEX concentrations were less than the applicable laboratory MDL for the submitted soil samples, with the exception of soil samples West Trench-1 1' (4.761 mg/Kg) and West Trench-1 3' (156.060 mg/Kg). A review of laboratory analytical results indicated BTEX concentrations were below NMOCD regulatory guidelines with the exception of soil sample West Trench-1 3'. A review of laboratory analytical results indicated TPH concentrations ranged from less than the applicable laboratory MDL for soil sample North Trench-1 1' to 13,231 mg/Kg for soil sample West Trench-1 3'. A review of laboratory analytical results indicated TPH concentrations were below NMOCD regulatory guidelines for the submitted soil samples with the exception of soil samples West Trench-1 1' (6,744 mg/Kg) and West Trench-1 3' (13,231 mg/Kg). Laboratory analytical results indicated chloride concentrations ranged from 38.0 mg/Kg for soil sample South Trench-1 1' to 298 mg/Kg for soil sample East Trench-1 1', which indicated the submitted soil samples were below NMOCD regulatory guidelines.

In addition, two (2) soil samples (OS-1 3" and OS-2 3") were collected from the overspray area located in the pasture adjacent to the caliche pad and submitted to the laboratory for BTEX, TPH, and chloride analysis. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the applicable laboratory MDL and below NMOCD regulatory guidelines. Laboratory analytical results indicated chloride concentrations for soil samples OS-1 3" and OS-2 3" were 13.8 mg/Kg and 82.6 mg/Kg, respectively, and below NMOCD regulatory guidelines.

Based on the analytical results of the soil samples collected on June 30, 2017, COG proposes the following field activities designed to remediate the Gunslinger 11 Federal Com #001 Release:

- Utilizing a backhoe, excavate the Release Site to a depth of approximately six (6) inches bgs in the area represented by soil samples Trench-1, excavate to a depth of approximately one (1) foot bgs in the area represented by soil samples Trench-3, and excavate approximately five (5) feet bgs in the area represented by soil samples Trench-4. No excavation activities will be performed in the areas represented by soil sample Trench-2, which will be aesthetically addressed. Excavated soil will be temporarily stockpiled on a plastic liner adjacent to the excavation.
- Following excavation activities, one (1) confirmation soil sample will be collected from the west wall of the area represented by soil samples Trench-4 and West Trench and submit the soil sample to the laboratory for determination of concentrations of BTEX and TPH. In addition, a minimum of one (1) composite soil sample will be collected for each one hundred (100) cubic yards of excavated soil and will be submitted to the laboratory for determination of concentrations of BTEX, TPH, and chloride.

- On receipt of favorable analytical results (below NMOCD regulatory guidelines), the excavation will be backfilled with the remediated soil.
- If laboratory results indicate BTEX, TPH, or chloride concentrations of the excavated soil exceed NMOCD regulatory guidelines, the excavated soil will be transported under manifest to an NMOCD approved disposal facility and the excavated area will be backfilled with "like" non-impacted soil.
- Prepare and submit a "Remediation Summary and Site Closure Request" to the NMOCD and BLM.

COG is prepared to begin the activities outlined in this Proposed Remediation Workplan on NMOCD and BLM approval.

If you have any questions, or if additional information is required, please feel free to call me at 432-520-7720 (office) or 432-664-6699 (cell).

Thank you,



Nikki Green  
Project Manager  
TRC Environmental Corporation



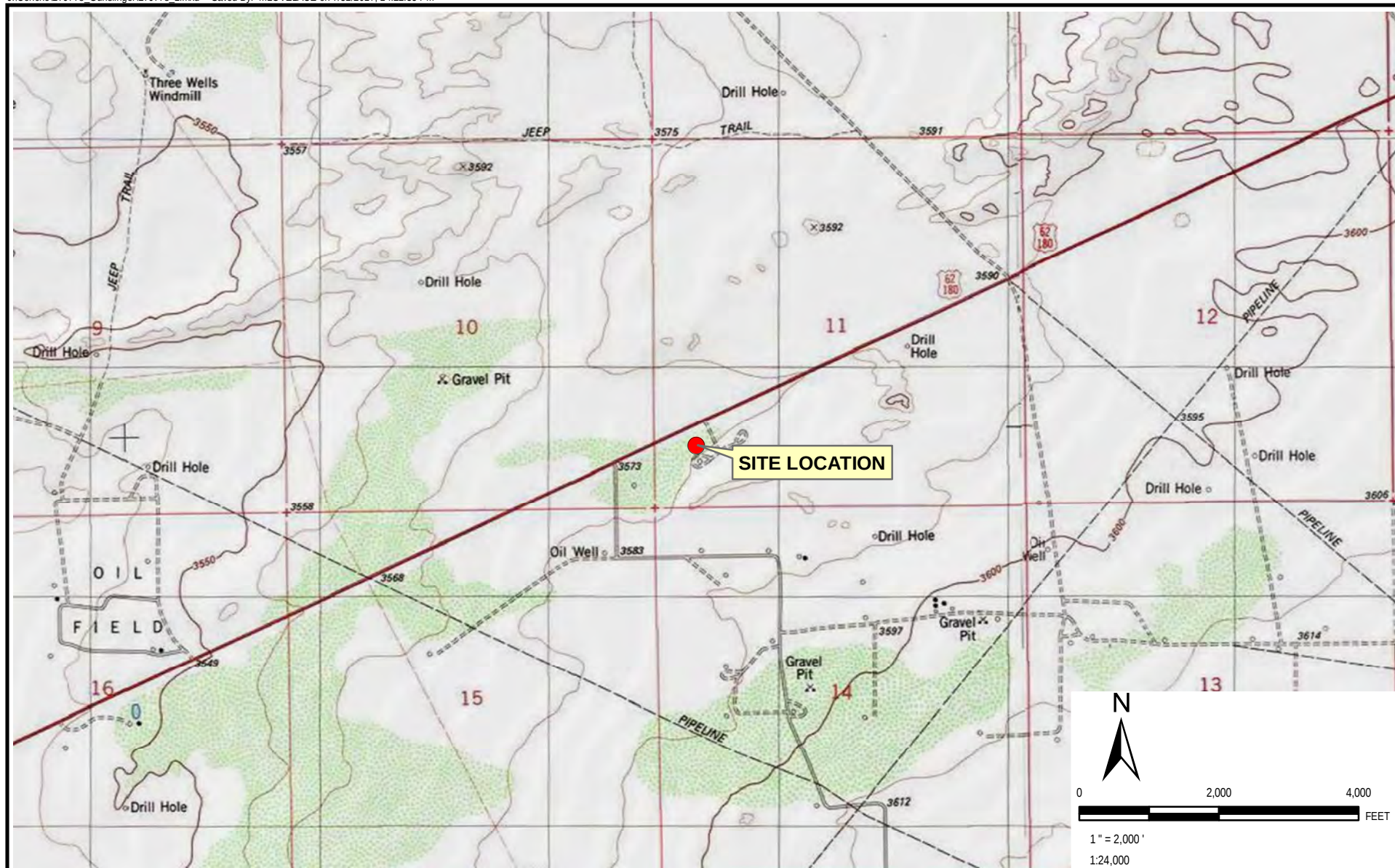
Jeffrey Kindley, PG  
Senior Project Manager  
TRC Environmental Corporation

**Attachments:**

Figure 1 - Site Location Map  
Figure 2 - Site Map  
Table 1 - Concentrations of Benzene, BTEX, TPH and Chloride in Soil  
Laboratory Analytical Results  
Release Notification and Corrective Action (Form C-141)

cc: Rebecca Haskell  
COG Operating, LLC  
600 W. Illinois Avenue  
Midland, Texas 79701

File



2075 Commerce Drive  
Midland, TX 79703  
Phone: 432.520.770

TRC - GIS

TITLE:

### FIGURE 1 SITE LOCATION MAP

PROJECT:

**GUNSLINGER 11 FEDERAL #001  
LEA COUNTY, NEW MEXICO  
COG OPERATING, LLC**

DRAWN BY: MLOVELACE

CHECKED BY: NGREEN

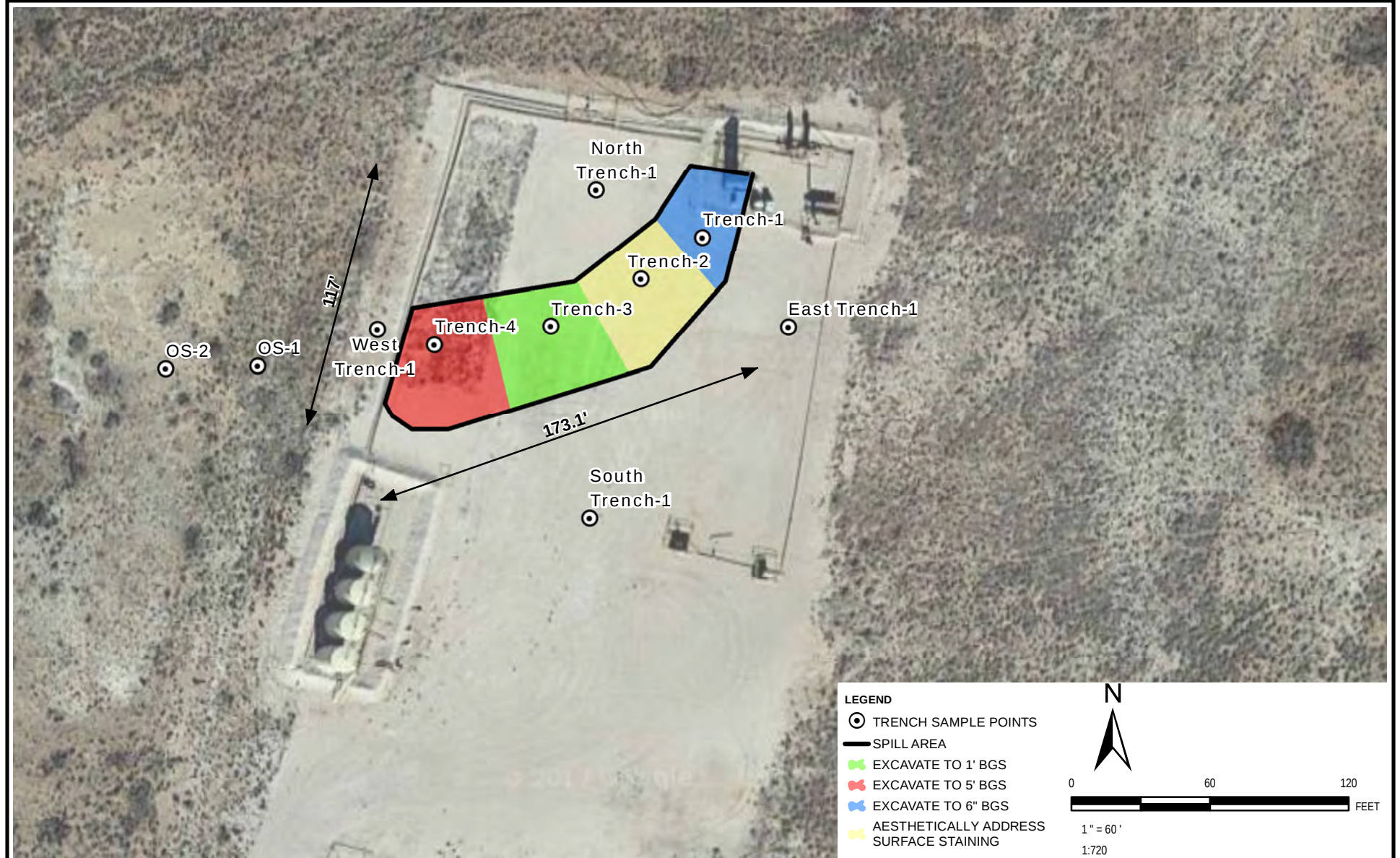
APPROVED BY: NGREEN

DATE: JULY 2017

PROJ. NO.: 279778

GPS LAT. N 32.582877°, LONG. W 103.640467°

**SW1/4 SW1/4 SEC 11 T20S R33E**



2075 Commerce Drive  
Midland, TX 79703  
Phone: 432.520.770

TRC - GIS

TITLE:

## FIGURE 2 SITE MAP

PROJECT:

**GUNSLINGER 11 FEDERAL #001  
LEA COUNTY, NEW MEXICO  
COG OPERATING, LLC.**

DRAWN BY: MLOVELACE

CHECKED BY: NGREEN

APPROVED BY: NGREEN

DATE: AUGUST 2017

PROJ. NO.: 279778

GPS LAT. N 32.582877°, LONG. W 103.640467°

**SW1/4 SW1/4 SEC 11 T20S R33E**

TABLE 1

## CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

COG Operating LLC  
Gunslinger 11 Federal Com #001 (1RP-4651)  
LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

| SAMPLE LOCATION                    | SAMPLE DATE | SOIL STATUS | METHODS: SW 846-8021b |          |               |                |            |            | METHOD: SW 8015M                        |                                          |                                          |                                           | E 300.1  |
|------------------------------------|-------------|-------------|-----------------------|----------|---------------|----------------|------------|------------|-----------------------------------------|------------------------------------------|------------------------------------------|-------------------------------------------|----------|
|                                    |             |             | BENZENE               | TOLUENE  | ETHYL-BENZENE | m, p - XYLENES | o - XYLENE | TOTAL BTEX | TPH GRO C <sub>6</sub> -C <sub>10</sub> | TPH DRO C <sub>10</sub> -C <sub>28</sub> | TPH ORO C <sub>28</sub> -C <sub>35</sub> | TOTAL TPH C <sub>6</sub> -C <sub>35</sub> | CHLORIDE |
| NMOCD Site Classification Criteria |             |             | 10                    |          |               |                |            | 50         |                                         |                                          |                                          | 5,000                                     | 600      |
| Trench-1 1'                        | 06/30/17    | Trench      | <0.00199              | 0.00585  | <0.00199      | 0.210          | 0.322      | 0.538      | 724                                     | 1,860                                    | 153                                      | 2,737                                     | 84.0     |
| Trench-1 3'                        | 06/30/17    | Trench      | <0.00198              | <0.00198 | <0.00198      | <0.00397       | <0.00198   | <0.00397   | <15.0                                   | 24.7                                     | <15.0                                    | 24.7                                      | -        |
| Trench-1 5'                        | 06/30/17    | Trench      | <0.00200              | <0.00200 | <0.00200      | <0.00399       | <0.00200   | <0.00399   | 19.0                                    | 176                                      | <15.0                                    | 195.0                                     | -        |
| Trench-1 8'                        | 06/30/17    | Trench      | <0.00202              | <0.00202 | <0.00202      | <0.00403       | <0.00202   | <0.00403   | <15.0                                   | 70.2                                     | <15.0                                    | 70.2                                      | 85.2     |
| Trench-2 6"                        | 06/30/17    | Trench      | <0.00201              | <0.00201 | <0.00201      | <0.00402       | <0.00201   | <0.00402   | 27.5                                    | 1,020                                    | 78.5                                     | 1,126.0                                   | 355      |
| Trench-2 1'                        | 06/30/17    | Trench      | <0.00200              | <0.00200 | <0.00200      | <0.00399       | <0.00200   | <0.00399   | <15.0                                   | <15.0                                    | <15.0                                    | <15.0                                     | 326      |
| Trench-2 3'                        | 06/30/17    | Trench      | <0.00199              | <0.00199 | <0.00199      | <0.00398       | <0.00199   | <0.00398   | <15.0                                   | <15.0                                    | <15.0                                    | <15.0                                     | -        |
| Trench-2 5'                        | 06/30/17    | Trench      | <0.00202              | <0.00202 | <0.00202      | <0.00403       | <0.00202   | <0.00403   | <14.9                                   | 54.4                                     | <14.9                                    | 54.4                                      | -        |
| Trench-2 8'                        | 06/30/17    | Trench      | <0.00199              | <0.00199 | <0.00199      | <0.00398       | <0.00199   | <0.00398   | <15.0                                   | <15.0                                    | <15.0                                    | <15.0                                     | 50.9     |
| Trench-3 6"                        | 06/30/17    | Trench      | <0.00199              | <0.00199 | <0.00199      | 0.0489         | 0.0318     | 0.0807     | 1,360                                   | 8,520                                    | 599                                      | 10,479                                    | 589      |
| Trench-3 1'                        | 06/30/17    | Trench      | <0.00201              | <0.00201 | <0.00201      | 0.00807        | 0.00545    | 0.01352    | 141                                     | 846                                      | <15.0                                    | 987                                       | 136      |
| Trench-3 3'                        | 06/30/17    | Trench      | <0.00202              | <0.00202 | <0.00202      | 0.00563        | <0.00202   | 0.00563    | 34.3                                    | 632                                      | <15.0                                    | 666.3                                     | -        |
| Trench-3 5'                        | 06/30/17    | Trench      | <0.00201              | <0.00201 | <0.00201      | <0.00402       | <0.00201   | <0.00402   | <15.0                                   | <15.0                                    | <15.0                                    | <15.0                                     | -        |
| Trench-3 8'                        | 06/30/17    | Trench      | <0.00201              | <0.00201 | <0.00201      | 0.00858        | <0.00201   | 0.00858    | 21.3                                    | 150                                      | <15.0                                    | 171                                       | 193      |
| Trench-4 6"                        | 06/30/17    | Trench      | 0.0590                | 0.387    | 0.731         | 3.68           | 4.19       | 9.047      | 1,980                                   | 8,860                                    | 691                                      | 11,531                                    | 155      |
| Trench-4 1'                        | 06/30/17    | Trench      | 0.174                 | 2.39     | 1.92          | 38.8           | 16.0       | 59.284     | 2,920                                   | 5,260                                    | 368                                      | 8,548                                     | 50.8     |
| Trench-4 3'                        | 06/30/17    | Trench      | <0.0202               | 0.599    | 0.542         | 7.10           | 3.18       | 11.421     | 415                                     | 1,160                                    | 45.8                                     | 1,620.8                                   | -        |
| Trench-4 5'                        | 06/30/17    | Trench      | <0.0199               | 11.0     | 11.0          | 74.4           | 27.4       | 123.8      | 2,740                                   | 4,310                                    | 355.0                                    | 7,405                                     | -        |
| Trench-4 8'                        | 06/30/17    | Trench      | <0.00200              | 0.00305  | <0.00200      | 0.116          | 0.0859     | 0.20495    | 317                                     | 1,200                                    | 89.1                                     | 1,606.1                                   | -        |
| Trench-4 11'                       | 06/30/17    | Trench      | <0.00199              | <0.00199 | <0.00199      | <0.00398       | <0.00199   | <0.00398   | 16.4                                    | 130                                      | <15.0                                    | 146.4                                     | -        |
| Trench-4 17'                       | 06/30/17    | Trench      | <0.00200              | <0.00200 | <0.00200      | <0.00399       | <0.00200   | <0.00399   | <15.0                                   | <15.0                                    | <15.0                                    | <15.0                                     | 7.33     |
| North Trench-1 1'                  | 06/30/17    | Trench      | <0.00201              | <0.00201 | <0.00201      | <0.00402       | <0.00201   | <0.00402   | <15.0                                   | <15.0                                    | <15.0                                    | <15.0                                     | 281      |
| East Trench-1 1'                   | 06/30/17    | Trench      | <0.00200              | <0.00200 | <0.00200      | <0.00401       | <0.00200   | <0.00401   | <15.0                                   | 28.8                                     | <15.0                                    | 28.8                                      | 298      |
| South Trench-1 1'                  | 06/30/17    | Trench      | <0.00198              | <0.00198 | <0.00198      | <0.00397       | <0.00198   | <0.00397   | <15.0                                   | 142                                      | 25.3                                     | 167.3                                     | 38.0     |

TABLE 1

### CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

**COG Operating LLC**  
**Gunslinger 11 Federal Com #001 (1RP-4651)**  
**LEA COUNTY, NEW MEXICO**

*All concentrations are reported in mg/Kg*

| SAMPLE LOCATION                    | SAMPLE DATE | SOIL STATUS | METHODS: SW 846-8021b |          |               |                |            |            | METHOD: SW 8015M                           |                                             |                                             |                                              | E 300.1  |
|------------------------------------|-------------|-------------|-----------------------|----------|---------------|----------------|------------|------------|--------------------------------------------|---------------------------------------------|---------------------------------------------|----------------------------------------------|----------|
|                                    |             |             | BENZENE               | TOLUENE  | ETHYL-BENZENE | m, p - XYLENES | o - XYLENE | TOTAL BTEX | TPH GRO<br>C <sub>6</sub> -C <sub>10</sub> | TPH DRO<br>C <sub>10</sub> -C <sub>28</sub> | TPH ORO<br>C <sub>28</sub> -C <sub>35</sub> | TOTAL TPH<br>C <sub>6</sub> -C <sub>35</sub> | CHLORIDE |
| NMOCD Site Classification Criteria |             |             | 10                    |          |               |                |            | 50         |                                            |                                             |                                             | 5,000                                        | 600      |
| West Trench-1 1'                   | 06/30/17    | Trench      | <0.0202               | 0.278    | 0.373         | 2.08           | 2.03       | 4.761      | 1380                                       | 4940                                        | 424                                         | 6,744                                        | 74.9     |
| West Trench-1 3'                   | 06/30/17    | Trench      | 0.660                 | 26.5     | 11.8          | 80.5           | 36.6       | 156.060    | 5690                                       | 7,230                                       | 311                                         | 13,231                                       | 78.4     |
|                                    |             |             |                       |          |               |                |            |            |                                            |                                             |                                             |                                              |          |
| OS-1 3"                            | 06/30/17    | Trench      | <0.00202              | <0.00202 | <0.00202      | <0.00404       | <0.00202   | <0.00404   | <15.0                                      | <15.0                                       | <15.0                                       | <15.0                                        | 13.8     |
| OS-2 3"                            | 06/30/17    | Trench      | <0.00200              | <0.00200 | <0.00200      | <0.00401       | <0.00200   | <0.00401   | <15.0                                      | <15.0                                       | <15.0                                       | <15.0                                        | 82.6     |
|                                    |             |             |                       |          |               |                |            |            |                                            |                                             |                                             |                                              |          |



# Certificate of Analysis Summary 556808

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (03/18/17)



Project Id:

Contact: Nikki Green

Project Location: Lea Co NM

Date Received in Lab: Mon Jul-03-17 11:55 am

Report Date: 11-JUL-17

Project Manager: Kelsey Brooks

| Analysis Requested                | Lab Id:    | 556808-001       | 556808-002       | 556808-003       | 556808-004       | 556808-005       | 556808-006       |
|-----------------------------------|------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                   | Field Id:  | OS-1 3"          | OS-2 3"          | Trench-1 1'      | Trench-1 3'      | Trench-1 5'      | Trench-1 8'      |
|                                   | Depth:     |                  |                  |                  |                  |                  |                  |
|                                   | Matrix:    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                   | Sampled:   | Jun-30-17 08:50  | Jun-30-17 08:55  | Jun-30-17 09:00  | Jun-30-17 09:15  | Jun-30-17 09:30  | Jun-30-17 09:45  |
| BTEX by EPA 8021B                 | Extracted: | Jul-06-17 09:30  | Jul-06-17 09:30  | Jul-06-17 09:30  | Jul-06-17 09:30  | Jul-06-17 09:30  | Jul-06-17 09:30  |
|                                   | Analyzed:  | Jul-06-17 18:35  | Jul-06-17 18:51  | Jul-06-17 20:28  | Jul-06-17 19:08  | Jul-06-17 19:24  | Jul-06-17 19:40  |
|                                   | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
|                                   |            |                  |                  |                  |                  |                  |                  |
| Benzene                           |            | <0.00202 0.00202 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 |
| Toluene                           |            | <0.00202 0.00202 | <0.00200 0.00200 | 0.00585 0.00199  | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 |
| Ethylbenzene                      |            | <0.00202 0.00202 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 |
| m,p-Xylenes                       |            | <0.00404 0.00404 | <0.00401 0.00401 | 0.210 0.00398    | <0.00397 0.00397 | <0.00399 0.00399 | <0.00403 0.00403 |
| o-Xylene                          |            | <0.00202 0.00202 | <0.00200 0.00200 | 0.112 0.00199    | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 |
| Total Xylenes                     |            | <0.00202 0.00202 | <0.00200 0.00200 | 0.322 0.00199    | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 |
| Total BTEX                        |            | <0.00202 0.00202 | <0.00200 0.00200 | 0.328 0.00199    | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 |
| Chloride by EPA 300               | Extracted: | Jul-07-17 16:30  | Jul-07-17 16:30  | Jul-07-17 16:30  |                  |                  | Jul-07-17 16:30  |
|                                   | Analyzed:  | Jul-07-17 19:54  | Jul-07-17 20:17  | Jul-07-17 20:24  |                  |                  | Jul-07-17 20:32  |
|                                   | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         |                  |                  | mg/kg RL         |
|                                   |            |                  |                  |                  |                  |                  |                  |
| Chloride                          |            | 13.8 4.91        | 82.6 4.97        | 84.0 4.95        |                  |                  | 85.2 4.94        |
| TPH by SW8015 Mod                 | Extracted: | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  |
|                                   | Analyzed:  | Jul-04-17 12:36  | Jul-04-17 13:37  | Jul-04-17 13:57  | Jul-04-17 14:19  | Jul-04-17 14:39  | Jul-04-17 14:59  |
|                                   | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
|                                   |            |                  |                  |                  |                  |                  |                  |
| Gasoline Range Hydrocarbons (GRO) |            | <15.0 15.0       | <15.0 15.0       | 724 15.0         | <15.0 15.0       | 19.0 15.0        | <15.0 15.0       |
| Diesel Range Organics (DRO)       |            | <15.0 15.0       | <15.0 15.0       | 1860 15.0        | 24.7 15.0        | 176 15.0         | 70.2 15.0        |
| Oil Range Hydrocarbons (ORO)      |            | <15.0 15.0       | <15.0 15.0       | 153 15.0         | <15.0 15.0       | <15.0 15.0       | <15.0 15.0       |
| Total TPH                         |            | <15.0 15.0       | <15.0 15.0       | 2740 15.0        | 24.7 15.0        | 195 15.0         | 70.2 15.0        |

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Mike Kimmel  
Client Services Manager



# Certificate of Analysis Summary 556808

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (03/18/17)



Project Id:

Contact: Nikki Green

Project Location: Lea Co NM

Date Received in Lab: Mon Jul-03-17 11:55 am

Report Date: 11-JUL-17

Project Manager: Kelsey Brooks

| <i>Analysis Requested</i>         | <i>Lab Id:</i>    | 556808-007       | 556808-008       | 556808-009       | 556808-010       | 556808-011       | 556808-012       |
|-----------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                   | <i>Field Id:</i>  | Trench-2 6"      | Trench-2 1'      | Trench-2 3'      | Trench-2 5'      | Trench-2 8'      | Trench-3 6"      |
|                                   | <i>Depth:</i>     |                  |                  |                  |                  |                  |                  |
|                                   | <i>Matrix:</i>    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                   | <i>Sampled:</i>   | Jun-30-17 10:00  | Jun-30-17 10:20  | Jun-30-17 10:30  | Jun-30-17 10:45  | Jun-30-17 11:00  | Jun-30-17 11:15  |
| <b>BTEX by EPA 8021B</b>          | <i>Extracted:</i> | Jul-06-17 15:00  | Jul-06-17 15:00  | Jul-06-17 15:00  | Jul-06-17 15:00  | Jul-06-17 15:00  | Jul-07-17 08:30  |
|                                   | <i>Analyzed:</i>  | Jul-06-17 22:54  | Jul-06-17 23:10  | Jul-06-17 23:27  | Jul-06-17 23:43  | Jul-06-17 23:59  | Jul-07-17 15:22  |
|                                   | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Benzene                           |                   | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00199 0.00199 |
| Toluene                           |                   | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00199 0.00199 |
| Ethylbenzene                      |                   | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00199 0.00199 |
| m,p-Xylenes                       |                   | <0.00402 0.00402 | <0.00399 0.00399 | <0.00398 0.00398 | <0.00403 0.00403 | <0.00398 0.00398 | 0.0489 0.00398   |
| o-Xylene                          |                   | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00202 0.00202 | <0.00199 0.00199 | 0.0318 0.00199   |
| Total Xylenes                     |                   | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00202 0.00202 | <0.00199 0.00199 | 0.0807 0.00199   |
| Total BTEX                        |                   | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00202 0.00202 | <0.00199 0.00199 | 0.0807 0.00199   |
| <b>Chloride by EPA 300</b>        | <i>Extracted:</i> | Jul-07-17 16:30  | Jul-07-17 16:30  |                  |                  | Jul-07-17 16:30  | Jul-07-17 16:30  |
|                                   | <i>Analyzed:</i>  | Jul-07-17 20:40  | Jul-07-17 21:03  |                  |                  | Jul-07-17 21:10  | Jul-07-17 21:18  |
|                                   | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         |                  |                  | mg/kg RL         | mg/kg RL         |
| Chloride                          |                   | 355 4.95         | 326 4.92         |                  |                  | 50.9 4.93        | 589 4.91         |
| <b>TPH by SW8015 Mod</b>          | <i>Extracted:</i> | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  |
|                                   | <i>Analyzed:</i>  | Jul-04-17 15:20  | Jul-04-17 15:41  | Jul-04-17 16:02  | Jul-04-17 16:23  | Jul-04-17 17:27  | Jul-05-17 07:12  |
|                                   | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO) |                   | 27.5 15.0        | <15.0 15.0       | <15.0 15.0       | <14.9 14.9       | <15.0 15.0       | 1360 74.8        |
| Diesel Range Organics (DRO)       |                   | 1020 15.0        | <15.0 15.0       | <15.0 15.0       | 54.4 14.9        | <15.0 15.0       | 8520 74.8        |
| Oil Range Hydrocarbons (ORO)      |                   | 78.5 15.0        | <15.0 15.0       | <15.0 15.0       | <14.9 14.9       | <15.0 15.0       | 599 74.8         |
| Total TPH                         |                   | 1130 15.0        | <15.0 15.0       | <15.0 15.0       | 54.4 14.9        | <15.0 15.0       | 10500 74.8       |

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Mike Kimmel  
Client Services Manager



# Certificate of Analysis Summary 556808

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (03/18/17)



Project Id:

Contact: Nikki Green

Project Location: Lea Co NM

Date Received in Lab: Mon Jul-03-17 11:55 am

Report Date: 11-JUL-17

Project Manager: Kelsey Brooks

| Analysis Requested                | Lab Id:    | 556808-013       | 556808-014       | 556808-015       | 556808-016       | 556808-017      | 556808-018      |
|-----------------------------------|------------|------------------|------------------|------------------|------------------|-----------------|-----------------|
|                                   | Field Id:  | Trench-3 1'      | Trench-3 3'      | Trench-3 5'      | Trench-3 8'      | Trench-4 6"     | Trench-4 1'     |
|                                   | Depth:     |                  |                  |                  |                  |                 |                 |
|                                   | Matrix:    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL            | SOIL            |
|                                   | Sampled:   | Jun-30-17 11:20  | Jun-30-17 11:30  | Jun-30-17 11:45  | Jun-30-17 12:00  | Jun-30-17 12:15 | Jun-30-17 12:20 |
| BTEX by EPA 8021B                 | Extracted: | Jul-06-17 15:00  | Jul-06-17 15:00  | Jul-07-17 08:30  | Jul-06-17 15:00  | Jul-07-17 08:30 | Jul-07-17 08:30 |
|                                   | Analyzed:  | Jul-07-17 00:15  | Jul-07-17 00:31  | Jul-07-17 12:24  | Jul-07-17 01:04  | Jul-07-17 17:11 | Jul-07-17 17:28 |
|                                   | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        |
| Benzene                           |            | <0.00201 0.00201 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00201 0.00201 | 0.0590 0.0498   | 0.174 0.101     |
| Toluene                           |            | <0.00201 0.00201 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00201 0.00201 | 0.387 0.0498    | 2.39 0.101      |
| Ethylbenzene                      |            | <0.00201 0.00201 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00201 0.00201 | 0.731 0.0498    | 1.92 0.101      |
| m,p-Xylenes                       |            | 0.00807 0.00402  | 0.00563 0.00404  | <0.00402 0.00402 | 0.00858 0.00402  | 3.68 0.0996     | 38.8 0.202      |
| o-Xylene                          |            | 0.00545 0.00201  | <0.00202 0.00202 | <0.00201 0.00201 | <0.00201 0.00201 | 4.19 0.0498     | 16.0 0.101      |
| Total Xylenes                     |            | 0.0135 0.00201   | 0.00563 0.00202  | <0.00201 0.00201 | 0.00858 0.00201  | 7.87 0.0498     | 54.8 0.101      |
| Total BTEX                        |            | 0.0135 0.00201   | 0.00563 0.00202  | <0.00201 0.00201 | 0.00858 0.00201  | 9.05 0.0498     | 59.3 0.101      |
| Chloride by EPA 300               | Extracted: | Jul-07-17 16:30  |                  |                  | Jul-07-17 16:30  | Jul-07-17 16:30 | Jul-07-17 16:30 |
|                                   | Analyzed:  | Jul-07-17 21:26  |                  |                  | Jul-07-17 21:33  | Jul-07-17 21:41 | Jul-07-17 22:04 |
|                                   | Units/RL:  | mg/kg RL         |                  |                  | mg/kg RL         | mg/kg RL        | mg/kg RL        |
| Chloride                          |            | 136 4.92         |                  |                  | 193 4.98         | 155 4.92        | 50.8 4.96       |
| TPH by SW8015 Mod                 | Extracted: | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00 | Jul-04-17 10:00 |
|                                   | Analyzed:  | Jul-04-17 18:09  | Jul-04-17 18:31  | Jul-04-17 18:51  | Jul-04-17 19:12  | Jul-05-17 07:33 | Jul-05-17 07:54 |
|                                   | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        |
| Gasoline Range Hydrocarbons (GRO) |            | 141 15.0         | 34.3 15.0        | <15.0 15.0       | 21.3 15.0        | 1980 74.9       | 2920 74.9       |
| Diesel Range Organics (DRO)       |            | 846 15.0         | 632 15.0         | <15.0 15.0       | 150 15.0         | 8860 74.9       | 5260 74.9       |
| Oil Range Hydrocarbons (ORO)      |            | <15.0 15.0       | <15.0 15.0       | <15.0 15.0       | <15.0 15.0       | 691 74.9        | 368 74.9        |
| Total TPH                         |            | 987 15.0         | 666 15.0         | <15.0 15.0       | 171 15.0         | 11500 74.9      | 8550 74.9       |

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Mike Kimmel  
Client Services Manager



# Certificate of Analysis Summary 556808

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (03/18/17)



Project Id:

Contact: Nikki Green

Project Location: Lea Co NM

Date Received in Lab: Mon Jul-03-17 11:55 am

Report Date: 11-JUL-17

Project Manager: Kelsey Brooks

| <i>Analysis Requested</i>         | <i>Lab Id:</i>    | 556808-019      | 556808-020      | 556808-021       | 556808-022       | 556808-023       | 556808-024        |
|-----------------------------------|-------------------|-----------------|-----------------|------------------|------------------|------------------|-------------------|
|                                   | <i>Field Id:</i>  | Trench-4 3'     | Trench-4 5'     | Trench-4 8'      | Trench-4 11'     | Trench-4 17'     | North Trench-1 1' |
|                                   | <i>Depth:</i>     |                 |                 |                  |                  |                  |                   |
|                                   | <i>Matrix:</i>    | SOIL            | SOIL            | SOIL             | SOIL             | SOIL             | SOIL              |
|                                   | <i>Sampled:</i>   | Jun-30-17 12:30 | Jun-30-17 12:45 | Jun-30-17 13:00  | Jun-30-17 13:15  | Jun-30-17 13:30  | Jun-30-17 13:35   |
| <b>BTEX by EPA 8021B</b>          | <i>Extracted:</i> | Jul-10-17 15:00 | Jul-10-17 18:00 | Jul-10-17 08:00  | Jul-06-17 15:00  | Jul-06-17 15:00  | Jul-06-17 15:00   |
|                                   | <i>Analyzed:</i>  | Jul-10-17 23:45 | Jul-11-17 14:13 | Jul-10-17 16:11  | Jul-07-17 02:08  | Jul-07-17 02:24  | Jul-07-17 02:40   |
|                                   | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL          |
| Benzene                           |                   | <0.0202 0.0202  | <0.0199 0.0199  | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201  |
| Toluene                           |                   | 0.599 0.0202    | 11.0 D 0.201    | 0.00305 0.00200  | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201  |
| Ethylbenzene                      |                   | 0.542 0.0202    | 11.0 D 0.201    | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201  |
| m,p-Xylenes                       |                   | 7.10 0.0404     | 74.4 D 0.402    | 0.116 0.00401    | <0.00398 0.00398 | <0.00399 0.00399 | <0.00402 0.00402  |
| o-Xylene                          |                   | 3.18 0.0202     | 27.4 D 0.201    | 0.0859 0.00200   | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201  |
| Total Xylenes                     |                   | 10.3 0.0202     | 102 0.201       | 0.202 0.00200    | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201  |
| Total BTEX                        |                   | 11.4 0.0202     | 124 0.0199      | 0.205 0.00200    | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201  |
| <b>Chloride by EPA 300</b>        | <i>Extracted:</i> |                 |                 |                  |                  | Jul-07-17 16:30  | Jul-07-17 16:30   |
|                                   | <i>Analyzed:</i>  |                 |                 |                  |                  | Jul-07-17 22:12  | Jul-07-17 22:35   |
|                                   | <i>Units/RL:</i>  |                 |                 |                  |                  | mg/kg RL         | mg/kg RL          |
| Chloride                          |                   |                 |                 |                  |                  | 7.33 4.94        | 281 4.97          |
| <b>TPH by SW8015 Mod</b>          | <i>Extracted:</i> | Jul-04-17 10:00 | Jul-04-17 10:00 | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00   |
|                                   | <i>Analyzed:</i>  | Jul-04-17 20:15 | Jul-04-17 20:36 | Jul-04-17 22:23  | Jul-04-17 23:28  | Jul-04-17 23:49  | Jul-05-17 00:10   |
|                                   | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL          |
| Gasoline Range Hydrocarbons (GRO) |                   | 415 15.0        | 2740 15.0       | 317 15.0         | 16.4 15.0        | <15.0 15.0       | <15.0 15.0        |
| Diesel Range Organics (DRO)       |                   | 1160 15.0       | 4310 15.0       | 1200 15.0        | 130 15.0         | <15.0 15.0       | <15.0 15.0        |
| Oil Range Hydrocarbons (ORO)      |                   | 45.8 15.0       | 355 15.0        | 89.1 15.0        | <15.0 15.0       | <15.0 15.0       | <15.0 15.0        |
| Total TPH                         |                   | 1620 15.0       | 7410 15.0       | 1610 15.0        | 146 15.0         | <15.0 15.0       | <15.0 15.0        |

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Mike Kimmel  
Client Services Manager



# Certificate of Analysis Summary 556808

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (03/18/17)



Project Id:

Contact: Nikki Green

Project Location: Lea Co NM

Date Received in Lab: Mon Jul-03-17 11:55 am

Report Date: 11-JUL-17

Project Manager: Kelsey Brooks

|                                   |                   |                  |                   |                  |  |  |  |
|-----------------------------------|-------------------|------------------|-------------------|------------------|--|--|--|
| <b>Analysis Requested</b>         | <b>Lab Id:</b>    | 556808-025       | 556808-026        | 556808-027       |  |  |  |
|                                   | <b>Field Id:</b>  | East Trench-1 1' | South Trench-1 1' | WesT Trench-1 1' |  |  |  |
|                                   | <b>Depth:</b>     |                  |                   |                  |  |  |  |
|                                   | <b>Matrix:</b>    | SOIL             | SOIL              | SOIL             |  |  |  |
|                                   | <b>Sampled:</b>   | Jun-30-17 13:45  | Jun-30-17 13:55   | Jun-30-17 10:10  |  |  |  |
| <b>BTEX by EPA 8021B</b>          | <b>Extracted:</b> | Jul-06-17 15:00  | Jul-06-17 15:00   | Jul-10-17 18:00  |  |  |  |
|                                   | <b>Analyzed:</b>  | Jul-07-17 02:56  | Jul-07-17 03:12   | Jul-11-17 13:56  |  |  |  |
|                                   | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL          | mg/kg RL         |  |  |  |
|                                   |                   |                  |                   |                  |  |  |  |
| Benzene                           |                   | <0.00200 0.00200 | <0.00198 0.00198  | <0.0202 0.0202   |  |  |  |
| Toluene                           |                   | <0.00200 0.00200 | <0.00198 0.00198  | 0.278 0.0202     |  |  |  |
| Ethylbenzene                      |                   | <0.00200 0.00200 | <0.00198 0.00198  | 0.373 0.0202     |  |  |  |
| m,p-Xylenes                       |                   | <0.00401 0.00401 | <0.00397 0.00397  | 2.08 0.0403      |  |  |  |
| o-Xylene                          |                   | <0.00200 0.00200 | <0.00198 0.00198  | 2.03 0.0202      |  |  |  |
| Total Xylenes                     |                   | <0.00200 0.00200 | <0.00198 0.00198  | 4.11 0.0202      |  |  |  |
| Total BTEX                        |                   | <0.00200 0.00200 | <0.00198 0.00198  | 4.76 0.0202      |  |  |  |
| <b>Chloride by EPA 300</b>        | <b>Extracted:</b> | Jul-07-17 16:30  | Jul-07-17 16:30   | Jul-07-17 16:30  |  |  |  |
|                                   | <b>Analyzed:</b>  | Jul-07-17 22:43  | Jul-07-17 22:50   | Jul-07-17 22:58  |  |  |  |
|                                   | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL          | mg/kg RL         |  |  |  |
|                                   |                   |                  |                   |                  |  |  |  |
| Chloride                          |                   | 298 4.97         | 38.0 4.94         | 74.9 4.95        |  |  |  |
| <b>TPH by SW8015 Mod</b>          | <b>Extracted:</b> | Jul-04-17 10:00  | Jul-04-17 10:00   | Jul-04-17 10:00  |  |  |  |
|                                   | <b>Analyzed:</b>  | Jul-05-17 00:31  | Jul-05-17 00:53   | Jul-05-17 01:14  |  |  |  |
|                                   | <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        | 1380 15.0        |  |  |  |
| Diesel Range Organics (DRO)       |                   | 28.8 15.0        | 142 15.0          | 4940 15.0        |  |  |  |
| Oil Range Hydrocarbons (ORO)      |                   | <15.0 15.0       | 25.3 15.0         | 424 15.0         |  |  |  |
| Total TPH                         |                   | 28.8 15.0        | 167 15.0          | 6740 15.0        |  |  |  |

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Mike Kimmel  
Client Services Manager

# **Analytical Report 556808**

**for  
TRC Solutions, Inc**

**Project Manager: Nikki Green  
Gunslinger 11 Federal Com #001H (03/18/17)**

**11-JUL-17**

Collected By: Client



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

Xenco-Houston (EPA Lab code: TX00122):  
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)  
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)  
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)  
Xenco-San Antonio: Texas (T104704534)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)  
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



11-JUL-17

Project Manager: **Nikki Green**

**TRC Solutions, Inc**

2057 Commerce

Midland, TX 79703

Reference: XENCO Report No(s): **556808**

**Gunslinger 11 Federal Com #001H (03/18/17)**

Project Address: Lea Co NM

**Nikki Green:**

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) 556808. 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. 556808 will be filed for 60 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,

**Mike Kimmel**

Client Services Manager

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

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



## Sample Cross Reference 556808



TRC Solutions, Inc, Midland, TX

Gunslinger 11 Federal Com #001H (03/18/17)

| Sample Id         | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-------------------|--------|----------------|--------------|---------------|
| OS-1 3"           | S      | 06-30-17 08:50 |              | 556808-001    |
| OS-2 3"           | S      | 06-30-17 08:55 |              | 556808-002    |
| Trench-1 1'       | S      | 06-30-17 09:00 |              | 556808-003    |
| Trench-1 3'       | S      | 06-30-17 09:15 |              | 556808-004    |
| Trench-1 5'       | S      | 06-30-17 09:30 |              | 556808-005    |
| Trench-1 8'       | S      | 06-30-17 09:45 |              | 556808-006    |
| Trench-2 6"       | S      | 06-30-17 10:00 |              | 556808-007    |
| Trench-2 1'       | S      | 06-30-17 10:20 |              | 556808-008    |
| Trench-2 3'       | S      | 06-30-17 10:30 |              | 556808-009    |
| Trench-2 5'       | S      | 06-30-17 10:45 |              | 556808-010    |
| Trench-2 8'       | S      | 06-30-17 11:00 |              | 556808-011    |
| Trench-3 6"       | S      | 06-30-17 11:15 |              | 556808-012    |
| Trench-3 1'       | S      | 06-30-17 11:20 |              | 556808-013    |
| Trench-3 3'       | S      | 06-30-17 11:30 |              | 556808-014    |
| Trench-3 5'       | S      | 06-30-17 11:45 |              | 556808-015    |
| Trench-3 8'       | S      | 06-30-17 12:00 |              | 556808-016    |
| Trench-4 6"       | S      | 06-30-17 12:15 |              | 556808-017    |
| Trench-4 1'       | S      | 06-30-17 12:20 |              | 556808-018    |
| Trench-4 3'       | S      | 06-30-17 12:30 |              | 556808-019    |
| Trench-4 5'       | S      | 06-30-17 12:45 |              | 556808-020    |
| Trench-4 8'       | S      | 06-30-17 13:00 |              | 556808-021    |
| Trench-4 11'      | S      | 06-30-17 13:15 |              | 556808-022    |
| Trench-4 17'      | S      | 06-30-17 13:30 |              | 556808-023    |
| North Trench-1 1' | S      | 06-30-17 13:35 |              | 556808-024    |
| East Trench-1 1'  | S      | 06-30-17 13:45 |              | 556808-025    |
| South Trench-1 1' | S      | 06-30-17 13:55 |              | 556808-026    |
| WesT Trench-1 1'  | S      | 06-30-17 10:10 |              | 556808-027    |



## CASE NARRATIVE

**Client Name:** TRC Solutions, Inc

**Project Name:** Gunslinger 11 Federal Com #001H (03/18/17)

Project ID:

Work Order Number(s): 556808

Report Date: 11-JUL-17

Date Received: 07/03/2017

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### Sample receipt non conformances and comments:

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

None

#### Analytical non conformances and comments:

Batch: LBA-3021649 BTEX by EPA 8021B

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

Batch: LBA-3021700 BTEX by EPA 8021B

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

Batch: LBA-3021705 BTEX by EPA 8021B

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

Batch: LBA-3021783 Chloride by EPA 300

Lab Sample ID 556808-017 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 556808-001, -002, -003, -006, -007, -008, -011, -012, -013, -016, -017, -018, -023, -024, -025, -026, -027.

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

Batch: LBA-3021854 BTEX by EPA 8021B

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

Batch: LBA-3021934 BTEX by EPA 8021B

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

Batch: LBA-3021965 BTEX by EPA 8021B

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

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 556808-020.



## **CASE NARRATIVE**

***Client Name: TRC Solutions, Inc***

***Project Name: Gunslinger 11 Federal Com #001H (03/18/17)***

Project ID:

Work Order Number(s): 556808

Report Date: 11-JUL-17

Date Received: 07/03/2017

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# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: OS-1 3"  
Lab Sample Id: 556808-001

Matrix: Soil  
Date Collected: 06.30.17 08.50

Date Received: 07.03.17 11.55

Analytical Method: Chloride by EPA 300

Tech: MGO

Analyst: MGO

Seq Number: 3021783

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 07.07.17 16.30

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 13.8   | 4.91 | mg/kg | 07.07.17 19.54 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3021776

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 07.04.17 10.00

| Parameter                         | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|-----------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610            | <15.0             | 15.0         | mg/kg         | 07.04.17 12.36       | U           | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO         | <15.0             | 15.0         | mg/kg         | 07.04.17 12.36       | U           | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835          | <15.0             | 15.0         | mg/kg         | 07.04.17 12.36       | U           | 1   |
| Total TPH                         | PHC635            | <15.0             | 15.0         | mg/kg         | 07.04.17 12.36       | 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-Chlorooctane                    | 111-85-3          | 112               | %            | 70-135        | 07.04.17 12.36       |             |     |
| o-Terphenyl                       | 84-15-1           | 111               | %            | 70-135        | 07.04.17 12.36       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **OS-1 3"**  
Lab Sample Id: 556808-001

Matrix: Soil  
Date Collected: 06.30.17 08.50

Date Received: 07.03.17 11.55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 09.30

Basis: Wet Weight

Seq Number: 3021649

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 07.06.17 18.35       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 07.06.17 18.35       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 07.06.17 18.35       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00404          | 0.00404      | mg/kg         | 07.06.17 18.35       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 07.06.17 18.35       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 07.06.17 18.35       | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 07.06.17 18.35       | 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> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 106               | %            | 80-120        | 07.06.17 18.35       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 99                | %            | 80-120        | 07.06.17 18.35       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: OS-2 3"  
Lab Sample Id: 556808-002

Matrix: Soil  
Date Collected: 06.30.17 08.55

Date Received: 07.03.17 11.55

Analytical Method: Chloride by EPA 300  
Tech: MGO  
Analyst: MGO  
Seq Number: 3021783

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 82.6   | 4.97 | mg/kg | 07.07.17 20.17 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3021776

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  | 07.04.17 13.37 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0      | 15.0  | mg/kg  | 07.04.17 13.37 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 07.04.17 13.37 | U    | 1   |
| Total TPH                         | PHC635     | <15.0      | 15.0  | mg/kg  | 07.04.17 13.37 | U    | 1   |
|                                   |            |            |       |        |                |      |     |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 105        | %     | 70-135 | 07.04.17 13.37 |      |     |
| o-Terphenyl                       | 84-15-1    | 106        | %     | 70-135 | 07.04.17 13.37 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: OS-2 3"  
Lab Sample Id: 556808-002

Matrix: Soil  
Date Collected: 06.30.17 08.55

Date Received: 07.03.17 11.55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 09.30

Basis: Wet Weight

Seq Number: 3021649

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 07.06.17 18.51       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 07.06.17 18.51       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 07.06.17 18.51       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 07.06.17 18.51       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 07.06.17 18.51       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 07.06.17 18.51       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 07.06.17 18.51       | 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          | 108               | %            | 80-120        | 07.06.17 18.51       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 104               | %            | 80-120        | 07.06.17 18.51       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-1 1'**  
Lab Sample Id: 556808-003

Matrix: Soil  
Date Collected: 06.30.17 09.00

Date Received: 07.03.17 11.55

Analytical Method: Chloride by EPA 300  
Tech: MGO  
Analyst: MGO  
Seq Number: 3021783

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 07.07.17 16.30

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 84.0   | 4.95 | mg/kg | 07.07.17 20.24 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3021776

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 07.04.17 10.00

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 724        | 15.0  | mg/kg  | 07.04.17 13.57 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1860       | 15.0  | mg/kg  | 07.04.17 13.57 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 153        | 15.0  | mg/kg  | 07.04.17 13.57 |      | 1   |
| Total TPH                         | PHC635     | 2740       | 15.0  | mg/kg  | 07.04.17 13.57 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 110        | %     | 70-135 | 07.04.17 13.57 |      |     |
| o-Terphenyl                       | 84-15-1    | 93         | %     | 70-135 | 07.04.17 13.57 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-1 1'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-003

Date Collected: 06.30.17 09.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 09.30

Basis: Wet Weight

Seq Number: 3021649

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 07.06.17 20.28       | U           | 1   |
| <b>Toluene</b>       | 108-88-3          | <b>0.00585</b>    | 0.00199      | mg/kg         | 07.06.17 20.28       |             | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 07.06.17 20.28       | U           | 1   |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>0.210</b>      | 0.00398      | mg/kg         | 07.06.17 20.28       |             | 1   |
| <b>o-Xylene</b>      | 95-47-6           | <b>0.112</b>      | 0.00199      | mg/kg         | 07.06.17 20.28       |             | 1   |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.322</b>      | 0.00199      | mg/kg         | 07.06.17 20.28       |             | 1   |
| <b>Total BTEX</b>    |                   | <b>0.328</b>      | 0.00199      | mg/kg         | 07.06.17 20.28       |             | 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          | 119               | %            | 80-120        | 07.06.17 20.28       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 99                | %            | 80-120        | 07.06.17 20.28       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-1 3'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-004

Date Collected: 06.30.17 09.15

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                          | Cas Number | Result      | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|-------------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <15.0       | 15.0 | mg/kg | 07.04.17 14.19 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | <b>24.7</b> | 15.0 | mg/kg | 07.04.17 14.19 |      | 1   |
| Oil Range Hydrocarbons (ORO)       | PHCG2835   | <15.0       | 15.0 | mg/kg | 07.04.17 14.19 | U    | 1   |
| <b>Total TPH</b>                   | PHC635     | <b>24.7</b> | 15.0 | mg/kg | 07.04.17 14.19 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 110        | %     | 70-135 | 07.04.17 14.19 |      |
| o-Terphenyl    | 84-15-1    | 111        | %     | 70-135 | 07.04.17 14.19 |      |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 09.30

Basis: Wet Weight

Seq Number: 3021649

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|---------------|-------------|----------|---------|-------|----------------|------|-----|
| Benzene       | 71-43-2     | <0.00198 | 0.00198 | mg/kg | 07.06.17 19.08 | U    | 1   |
| Toluene       | 108-88-3    | <0.00198 | 0.00198 | mg/kg | 07.06.17 19.08 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00198 | 0.00198 | mg/kg | 07.06.17 19.08 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 07.06.17 19.08 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00198 | 0.00198 | mg/kg | 07.06.17 19.08 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00198 | 0.00198 | mg/kg | 07.06.17 19.08 | U    | 1   |
| Total BTEX    |             | <0.00198 | 0.00198 | mg/kg | 07.06.17 19.08 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 109        | %     | 80-120 | 07.06.17 19.08 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 98         | %     | 80-120 | 07.06.17 19.08 |      |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-1 5'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-005

Date Collected: 06.30.17 09.30

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 19.0       | 15.0  | mg/kg  | 07.04.17 14.39 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 176        | 15.0  | mg/kg  | 07.04.17 14.39 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 07.04.17 14.39 | U    | 1   |
| Total TPH                         | PHC635     | 195        | 15.0  | mg/kg  | 07.04.17 14.39 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 109        | %     | 70-135 | 07.04.17 14.39 |      |     |
| o-Terphenyl                       | 84-15-1    | 109        | %     | 70-135 | 07.04.17 14.39 |      |     |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 09.30

Basis: Wet Weight

Seq Number: 3021649

| Parameter            | Cas Number  | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00200   | 0.00200 | mg/kg  | 07.06.17 19.24 | U    | 1   |
| Toluene              | 108-88-3    | <0.00200   | 0.00200 | mg/kg  | 07.06.17 19.24 | U    | 1   |
| Ethylbenzene         | 100-41-4    | <0.00200   | 0.00200 | mg/kg  | 07.06.17 19.24 | U    | 1   |
| m,p-Xylenes          | 179601-23-1 | <0.00399   | 0.00399 | mg/kg  | 07.06.17 19.24 | U    | 1   |
| o-Xylene             | 95-47-6     | <0.00200   | 0.00200 | mg/kg  | 07.06.17 19.24 | U    | 1   |
| Total Xylenes        | 1330-20-7   | <0.00200   | 0.00200 | mg/kg  | 07.06.17 19.24 | U    | 1   |
| Total BTEX           |             | <0.00200   | 0.00200 | mg/kg  | 07.06.17 19.24 | U    | 1   |
| Surrogate            | Cas Number  | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 1,4-Difluorobenzene  | 540-36-3    | 95         | %       | 80-120 | 07.06.17 19.24 |      |     |
| 4-Bromofluorobenzene | 460-00-4    | 87         | %       | 80-120 | 07.06.17 19.24 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-1 8'**  
Lab Sample Id: 556808-006

Matrix: Soil  
Date Collected: 06.30.17 09.45

Date Received: 07.03.17 11.55

Analytical Method: Chloride by EPA 300  
Tech: MGO  
Analyst: MGO  
Seq Number: 3021783

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 07.07.17 16.30

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 85.2   | 4.94 | mg/kg | 07.07.17 20.32 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3021776

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 07.04.17 10.00

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0      | 15.0  | mg/kg  | 07.04.17 14.59 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 70.2       | 15.0  | mg/kg  | 07.04.17 14.59 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 07.04.17 14.59 | U    | 1   |
| Total TPH                         | PHC635     | 70.2       | 15.0  | mg/kg  | 07.04.17 14.59 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 115        | %     | 70-135 | 07.04.17 14.59 |      |     |
| o-Terphenyl                       | 84-15-1    | 118        | %     | 70-135 | 07.04.17 14.59 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-1 8'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-006

Date Collected: 06.30.17 09.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 09.30

Basis: Wet Weight

Seq Number: 3021649

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 07.06.17 19.40       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 07.06.17 19.40       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 07.06.17 19.40       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 07.06.17 19.40       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 07.06.17 19.40       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 07.06.17 19.40       | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 07.06.17 19.40       | 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          | 110               | %            | 80-120        | 07.06.17 19.40       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 103               | %            | 80-120        | 07.06.17 19.40       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-2 6"**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-007

Date Collected: 06.30.17 10.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 07.07.17 16.30

Basis: Wet Weight

Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 355    | 4.95 | mg/kg | 07.07.17 20.40 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 27.5       | 15.0  | mg/kg  | 07.04.17 15.20 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1020       | 15.0  | mg/kg  | 07.04.17 15.20 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 78.5       | 15.0  | mg/kg  | 07.04.17 15.20 |      | 1   |
| Total TPH                         | PHC635     | 1130       | 15.0  | mg/kg  | 07.04.17 15.20 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 108        | %     | 70-135 | 07.04.17 15.20 |      |     |
| o-Terphenyl                       | 84-15-1    | 90         | %     | 70-135 | 07.04.17 15.20 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-2 6"**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-007

Date Collected: 06.30.17 10.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 07.06.17 22.54       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 07.06.17 22.54       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 07.06.17 22.54       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 07.06.17 22.54       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 07.06.17 22.54       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00201          | 0.00201      | mg/kg         | 07.06.17 22.54       | U           | 1   |
| Total BTEX           |                   | <0.00201          | 0.00201      | mg/kg         | 07.06.17 22.54       | 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        | 07.06.17 22.54       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 106               | %            | 80-120        | 07.06.17 22.54       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-2 1'**  
Lab Sample Id: 556808-008

Matrix: Soil  
Date Collected: 06.30.17 10.20

Date Received: 07.03.17 11.55

Analytical Method: Chloride by EPA 300  
Tech: MGO  
Analyst: MGO  
Seq Number: 3021783

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 326    | 4.92 | mg/kg | 07.07.17 21.03 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3021776

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         | 07.04.17 15.41       | U           | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO         | <15.0             | 15.0         | mg/kg         | 07.04.17 15.41       | U           | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835          | <15.0             | 15.0         | mg/kg         | 07.04.17 15.41       | U           | 1   |
| Total TPH                         | PHC635            | <15.0             | 15.0         | mg/kg         | 07.04.17 15.41       | 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-Chlorooctane                    | 111-85-3          | 110               | %            | 70-135        | 07.04.17 15.41       |             |     |
| o-Terphenyl                       | 84-15-1           | 111               | %            | 70-135        | 07.04.17 15.41       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-2 1'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-008

Date Collected: 06.30.17 10.20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 07.06.17 23.10       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 07.06.17 23.10       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 07.06.17 23.10       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 07.06.17 23.10       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 07.06.17 23.10       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 07.06.17 23.10       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 07.06.17 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          | 91                | %            | 80-120        | 07.06.17 23.10       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 92                | %            | 80-120        | 07.06.17 23.10       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-2 3'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-009

Date Collected: 06.30.17 10.30

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 07.04.17 16.02 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0  | 15.0 | mg/kg | 07.04.17 16.02 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0  | 15.0 | mg/kg | 07.04.17 16.02 | U    | 1   |
| Total TPH                         | PHC635     | <15.0  | 15.0 | mg/kg | 07.04.17 16.02 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 113        | %     | 70-135 | 07.04.17 16.02 |      |
| o-Terphenyl    | 84-15-1    | 113        | %     | 70-135 | 07.04.17 16.02 |      |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|---------------|-------------|----------|---------|-------|----------------|------|-----|
| Benzene       | 71-43-2     | <0.00199 | 0.00199 | mg/kg | 07.06.17 23.27 | U    | 1   |
| Toluene       | 108-88-3    | <0.00199 | 0.00199 | mg/kg | 07.06.17 23.27 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00199 | 0.00199 | mg/kg | 07.06.17 23.27 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.06.17 23.27 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00199 | 0.00199 | mg/kg | 07.06.17 23.27 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00199 | 0.00199 | mg/kg | 07.06.17 23.27 | U    | 1   |
| Total BTEX    |             | <0.00199 | 0.00199 | mg/kg | 07.06.17 23.27 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 101        | %     | 80-120 | 07.06.17 23.27 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 116        | %     | 80-120 | 07.06.17 23.27 |      |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-2 5'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-010

Date Collected: 06.30.17 10.45

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                          | Cas Number | Result      | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|-------------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <14.9       | 14.9 | mg/kg | 07.04.17 16.23 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | <b>54.4</b> | 14.9 | mg/kg | 07.04.17 16.23 |      | 1   |
| Oil Range Hydrocarbons (ORO)       | PHCG2835   | <14.9       | 14.9 | mg/kg | 07.04.17 16.23 | U    | 1   |
| <b>Total TPH</b>                   | PHC635     | <b>54.4</b> | 14.9 | mg/kg | 07.04.17 16.23 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 111        | %     | 70-135 | 07.04.17 16.23 |      |
| o-Terphenyl    | 84-15-1    | 113        | %     | 70-135 | 07.04.17 16.23 |      |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|---------------|-------------|----------|---------|-------|----------------|------|-----|
| Benzene       | 71-43-2     | <0.00202 | 0.00202 | mg/kg | 07.06.17 23.43 | U    | 1   |
| Toluene       | 108-88-3    | <0.00202 | 0.00202 | mg/kg | 07.06.17 23.43 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00202 | 0.00202 | mg/kg | 07.06.17 23.43 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 07.06.17 23.43 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00202 | 0.00202 | mg/kg | 07.06.17 23.43 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00202 | 0.00202 | mg/kg | 07.06.17 23.43 | U    | 1   |
| Total BTEX    |             | <0.00202 | 0.00202 | mg/kg | 07.06.17 23.43 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 93         | %     | 80-120 | 07.06.17 23.43 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 100        | %     | 80-120 | 07.06.17 23.43 |      |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-2 8'**  
Lab Sample Id: 556808-011

Matrix: Soil  
Date Collected: 06.30.17 11.00

Date Received: 07.03.17 11.55

Analytical Method: Chloride by EPA 300  
Tech: MGO  
Analyst: MGO  
Seq Number: 3021783

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 07.07.17 16.30

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 50.9   | 4.93 | mg/kg | 07.07.17 21.10 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3021776

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 07.04.17 10.00

| Parameter                         | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|-----------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610            | <15.0             | 15.0         | mg/kg         | 07.04.17 17.27       | U           | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO         | <15.0             | 15.0         | mg/kg         | 07.04.17 17.27       | U           | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835          | <15.0             | 15.0         | mg/kg         | 07.04.17 17.27       | U           | 1   |
| Total TPH                         | PHC635            | <15.0             | 15.0         | mg/kg         | 07.04.17 17.27       | 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-Chlorooctane                    | 111-85-3          | 113               | %            | 70-135        | 07.04.17 17.27       |             |     |
| o-Terphenyl                       | 84-15-1           | 114               | %            | 70-135        | 07.04.17 17.27       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-2 8'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-011

Date Collected: 06.30.17 11.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 07.06.17 23.59       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 07.06.17 23.59       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 07.06.17 23.59       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 07.06.17 23.59       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 07.06.17 23.59       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 07.06.17 23.59       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 07.06.17 23.59       | 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> |     |
| 4-Bromofluorobenzene | 460-00-4          | 93                | %            | 80-120        | 07.06.17 23.59       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 97                | %            | 80-120        | 07.06.17 23.59       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-3 6"**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-012

Date Collected: 06.30.17 11.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 07.07.17 16.30

Basis: Wet Weight

Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 589    | 4.91 | mg/kg | 07.07.17 21.18 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 1360       | 74.8  | mg/kg  | 07.05.17 07.12 |      | 5   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 8520       | 74.8  | mg/kg  | 07.05.17 07.12 |      | 5   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 599        | 74.8  | mg/kg  | 07.05.17 07.12 |      | 5   |
| Total TPH                         | PHC635     | 10500      | 74.8  | mg/kg  | 07.05.17 07.12 |      | 5   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 101        | %     | 70-135 | 07.05.17 07.12 |      |     |
| o-Terphenyl                       | 84-15-1    | 99         | %     | 70-135 | 07.05.17 07.12 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-3 6"**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-012

Date Collected: 06.30.17 11.15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.07.17 08.30

Basis: Wet Weight

Seq Number: 3021705

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 07.07.17 15.22       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 07.07.17 15.22       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 07.07.17 15.22       | U           | 1   |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>0.0489</b>     | 0.00398      | mg/kg         | 07.07.17 15.22       |             | 1   |
| <b>o-Xylene</b>      | 95-47-6           | <b>0.0318</b>     | 0.00199      | mg/kg         | 07.07.17 15.22       |             | 1   |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.0807</b>     | 0.00199      | mg/kg         | 07.07.17 15.22       |             | 1   |
| <b>Total BTEX</b>    |                   | <b>0.0807</b>     | 0.00199      | mg/kg         | 07.07.17 15.22       |             | 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        | 07.07.17 15.22       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 82                | %            | 80-120        | 07.07.17 15.22       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-3 1'**  
Lab Sample Id: 556808-013

Matrix: Soil  
Date Collected: 06.30.17 11.20

Date Received: 07.03.17 11.55

Analytical Method: Chloride by EPA 300  
Tech: MGO  
Analyst: MGO  
Seq Number: 3021783

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 07.07.17 16.30

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 136    | 4.92 | mg/kg | 07.07.17 21.26 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3021776

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 07.04.17 10.00

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 141        | 15.0  | mg/kg  | 07.04.17 18.09 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 846        | 15.0  | mg/kg  | 07.04.17 18.09 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 07.04.17 18.09 | U    | 1   |
| Total TPH                         | PHC635     | 987        | 15.0  | mg/kg  | 07.04.17 18.09 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 96         | %     | 70-135 | 07.04.17 18.09 |      |     |
| o-Terphenyl                       | 84-15-1    | 84         | %     | 70-135 | 07.04.17 18.09 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-3 1'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-013

Date Collected: 06.30.17 11.20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number  | Result         | RL      | Units | Analysis Date  | Flag           | Dil  |
|----------------------|-------------|----------------|---------|-------|----------------|----------------|------|
| Benzene              | 71-43-2     | <0.00201       | 0.00201 | mg/kg | 07.07.17 00.15 | U              | 1    |
| Toluene              | 108-88-3    | <0.00201       | 0.00201 | mg/kg | 07.07.17 00.15 | U              | 1    |
| Ethylbenzene         | 100-41-4    | <0.00201       | 0.00201 | mg/kg | 07.07.17 00.15 | U              | 1    |
| m,p-Xylenes          | 179601-23-1 | <b>0.00807</b> | 0.00402 | mg/kg | 07.07.17 00.15 |                | 1    |
| o-Xylene             | 95-47-6     | <b>0.00545</b> | 0.00201 | mg/kg | 07.07.17 00.15 |                | 1    |
| Total Xylenes        | 1330-20-7   | <b>0.0135</b>  | 0.00201 | mg/kg | 07.07.17 00.15 |                | 1    |
| Total BTEX           |             | <b>0.0135</b>  | 0.00201 | mg/kg | 07.07.17 00.15 |                | 1    |
| Surrogate            | Cas Number  | % Recovery     |         | Units | Limits         | Analysis Date  | Flag |
| 1,4-Difluorobenzene  | 540-36-3    | 98             |         | %     | 80-120         | 07.07.17 00.15 |      |
| 4-Bromofluorobenzene | 460-00-4    | 98             |         | %     | 80-120         | 07.07.17 00.15 |      |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-3 3'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-014

Date Collected: 06.30.17 11.30

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 34.3       | 15.0  | mg/kg  | 07.04.17 18.31 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 632        | 15.0  | mg/kg  | 07.04.17 18.31 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 07.04.17 18.31 | U    | 1   |
| Total TPH                         | PHC635     | 666        | 15.0  | mg/kg  | 07.04.17 18.31 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 100        | %     | 70-135 | 07.04.17 18.31 |      |     |
| o-Terphenyl                       | 84-15-1    | 88         | %     | 70-135 | 07.04.17 18.31 |      |     |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number  | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00202   | 0.00202 | mg/kg  | 07.07.17 00.31 | U    | 1   |
| Toluene              | 108-88-3    | <0.00202   | 0.00202 | mg/kg  | 07.07.17 00.31 | U    | 1   |
| Ethylbenzene         | 100-41-4    | <0.00202   | 0.00202 | mg/kg  | 07.07.17 00.31 | U    | 1   |
| m,p-Xylenes          | 179601-23-1 | 0.00563    | 0.00404 | mg/kg  | 07.07.17 00.31 |      | 1   |
| o-Xylene             | 95-47-6     | <0.00202   | 0.00202 | mg/kg  | 07.07.17 00.31 | U    | 1   |
| Total Xylenes        | 1330-20-7   | 0.00563    | 0.00202 | mg/kg  | 07.07.17 00.31 |      | 1   |
| Total BTEX           |             | 0.00563    | 0.00202 | mg/kg  | 07.07.17 00.31 |      | 1   |
| Surrogate            | Cas Number  | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4    | 95         | %       | 80-120 | 07.07.17 00.31 |      |     |
| 1,4-Difluorobenzene  | 540-36-3    | 111        | %       | 80-120 | 07.07.17 00.31 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-3 5'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-015

Date Collected: 06.30.17 11.45

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 07.04.17 18.51 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0  | 15.0 | mg/kg | 07.04.17 18.51 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0  | 15.0 | mg/kg | 07.04.17 18.51 | U    | 1   |
| Total TPH                         | PHC635     | <15.0  | 15.0 | mg/kg | 07.04.17 18.51 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 110        | %     | 70-135 | 07.04.17 18.51 |      |
| o-Terphenyl    | 84-15-1    | 107        | %     | 70-135 | 07.04.17 18.51 |      |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.07.17 08.30

Basis: Wet Weight

Seq Number: 3021705

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|---------------|-------------|----------|---------|-------|----------------|------|-----|
| Benzene       | 71-43-2     | <0.00201 | 0.00201 | mg/kg | 07.07.17 12.24 | U    | 1   |
| Toluene       | 108-88-3    | <0.00201 | 0.00201 | mg/kg | 07.07.17 12.24 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00201 | 0.00201 | mg/kg | 07.07.17 12.24 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.07.17 12.24 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00201 | 0.00201 | mg/kg | 07.07.17 12.24 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00201 | 0.00201 | mg/kg | 07.07.17 12.24 | U    | 1   |
| Total BTEX    |             | <0.00201 | 0.00201 | mg/kg | 07.07.17 12.24 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 101        | %     | 80-120 | 07.07.17 12.24 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 108        | %     | 80-120 | 07.07.17 12.24 |      |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-3 8'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-016

Date Collected: 06.30.17 12.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 07.07.17 16.30

Basis: Wet Weight

Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 193    | 4.98 | mg/kg | 07.07.17 21.33 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 21.3       | 15.0  | mg/kg  | 07.04.17 19.12 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 150        | 15.0  | mg/kg  | 07.04.17 19.12 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 07.04.17 19.12 | U    | 1   |
| Total TPH                         | PHC635     | 171        | 15.0  | mg/kg  | 07.04.17 19.12 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 114        | %     | 70-135 | 07.04.17 19.12 |      |     |
| o-Terphenyl                       | 84-15-1    | 115        | %     | 70-135 | 07.04.17 19.12 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-3 8'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-016

Date Collected: 06.30.17 12.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 07.07.17 01.04       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 07.07.17 01.04       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 07.07.17 01.04       | U           | 1   |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>0.00858</b>    | 0.00402      | mg/kg         | 07.07.17 01.04       |             | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 07.07.17 01.04       | U           | 1   |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.00858</b>    | 0.00201      | mg/kg         | 07.07.17 01.04       |             | 1   |
| <b>Total BTEX</b>    |                   | <b>0.00858</b>    | 0.00201      | mg/kg         | 07.07.17 01.04       |             | 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          | 96                | %            | 80-120        | 07.07.17 01.04       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 89                | %            | 80-120        | 07.07.17 01.04       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 6"**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-017

Date Collected: 06.30.17 12.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 07.07.17 16.30

Basis: Wet Weight

Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 155    | 4.92 | mg/kg | 07.07.17 21.41 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 1980       | 74.9  | mg/kg  | 07.05.17 07.33 |      | 5   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 8860       | 74.9  | mg/kg  | 07.05.17 07.33 |      | 5   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 691        | 74.9  | mg/kg  | 07.05.17 07.33 |      | 5   |
| Total TPH                         | PHC635     | 11500      | 74.9  | mg/kg  | 07.05.17 07.33 |      | 5   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 120        | %     | 70-135 | 07.05.17 07.33 |      |     |
| o-Terphenyl                       | 84-15-1    | 103        | %     | 70-135 | 07.05.17 07.33 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 6"**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-017

Date Collected: 06.30.17 12.15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.07.17 08.30

Basis: Wet Weight

Seq Number: 3021705

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.0590</b>     | 0.0498       | mg/kg         | 07.07.17 17.11       |             | 25  |
| <b>Toluene</b>       | 108-88-3          | <b>0.387</b>      | 0.0498       | mg/kg         | 07.07.17 17.11       |             | 25  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>0.731</b>      | 0.0498       | mg/kg         | 07.07.17 17.11       |             | 25  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>3.68</b>       | 0.0996       | mg/kg         | 07.07.17 17.11       |             | 25  |
| <b>o-Xylene</b>      | 95-47-6           | <b>4.19</b>       | 0.0498       | mg/kg         | 07.07.17 17.11       |             | 25  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>7.87</b>       | 0.0498       | mg/kg         | 07.07.17 17.11       |             | 25  |
| <b>Total BTEX</b>    |                   | <b>9.05</b>       | 0.0498       | mg/kg         | 07.07.17 17.11       |             | 25  |
| <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          | 84                | %            | 80-120        | 07.07.17 17.11       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 110               | %            | 80-120        | 07.07.17 17.11       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 1'** Matrix: Soil Date Received: 07.03.17 11.55  
Lab Sample Id: 556808-018 Date Collected: 06.30.17 12.20  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MGO % Moisture:  
Analyst: MGO Date Prep: 07.07.17 16.30 Basis: Wet Weight  
Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 50.8   | 4.96 | mg/kg | 07.07.17 22.04 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 07.04.17 10.00 Basis: Wet Weight  
Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 2920       | 74.9  | mg/kg  | 07.05.17 07.54 |      | 5   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 5260       | 74.9  | mg/kg  | 07.05.17 07.54 |      | 5   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 368        | 74.9  | mg/kg  | 07.05.17 07.54 |      | 5   |
| Total TPH                         | PHC635     | 8550       | 74.9  | mg/kg  | 07.05.17 07.54 |      | 5   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 105        | %     | 70-135 | 07.05.17 07.54 |      |     |
| o-Terphenyl                       | 84-15-1    | 97         | %     | 70-135 | 07.05.17 07.54 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 1'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-018

Date Collected: 06.30.17 12.20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.07.17 08.30

Basis: Wet Weight

Seq Number: 3021705

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.174</b>      | 0.101        | mg/kg         | 07.07.17 17.28       |             | 50  |
| <b>Toluene</b>       | 108-88-3          | <b>2.39</b>       | 0.101        | mg/kg         | 07.07.17 17.28       |             | 50  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>1.92</b>       | 0.101        | mg/kg         | 07.07.17 17.28       |             | 50  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>38.8</b>       | 0.202        | mg/kg         | 07.07.17 17.28       |             | 50  |
| <b>o-Xylene</b>      | 95-47-6           | <b>16.0</b>       | 0.101        | mg/kg         | 07.07.17 17.28       |             | 50  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>54.8</b>       | 0.101        | mg/kg         | 07.07.17 17.28       |             | 50  |
| <b>Total BTEX</b>    |                   | <b>59.3</b>       | 0.101        | mg/kg         | 07.07.17 17.28       |             | 50  |
| <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          | 89                | %            | 80-120        | 07.07.17 17.28       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 115               | %            | 80-120        | 07.07.17 17.28       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 3'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-019

Date Collected: 06.30.17 12.30

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 415        | 15.0  | mg/kg  | 07.04.17 20.15 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1160       | 15.0  | mg/kg  | 07.04.17 20.15 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 45.8       | 15.0  | mg/kg  | 07.04.17 20.15 |      | 1   |
| Total TPH                         | PHC635     | 1620       | 15.0  | mg/kg  | 07.04.17 20.15 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 100        | %     | 70-135 | 07.04.17 20.15 |      |     |
| o-Terphenyl                       | 84-15-1    | 82         | %     | 70-135 | 07.04.17 20.15 |      |     |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.10.17 15.00

Basis: Wet Weight

Seq Number: 3021934

| Parameter            | Cas Number  | Result     | RL     | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|--------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.0202    | 0.0202 | mg/kg  | 07.10.17 23.45 | U    | 10  |
| Toluene              | 108-88-3    | 0.599      | 0.0202 | mg/kg  | 07.10.17 23.45 |      | 10  |
| Ethylbenzene         | 100-41-4    | 0.542      | 0.0202 | mg/kg  | 07.10.17 23.45 |      | 10  |
| m,p-Xylenes          | 179601-23-1 | 7.10       | 0.0404 | mg/kg  | 07.10.17 23.45 |      | 10  |
| o-Xylene             | 95-47-6     | 3.18       | 0.0202 | mg/kg  | 07.10.17 23.45 |      | 10  |
| Total Xylenes        | 1330-20-7   | 10.3       | 0.0202 | mg/kg  | 07.10.17 23.45 |      | 10  |
| Total BTEX           |             | 11.4       | 0.0202 | mg/kg  | 07.10.17 23.45 |      | 10  |
| Surrogate            | Cas Number  | % Recovery | Units  | Limits | Analysis Date  | Flag |     |
| 1,4-Difluorobenzene  | 540-36-3    | 97         | %      | 80-120 | 07.10.17 23.45 |      |     |
| 4-Bromofluorobenzene | 460-00-4    | 110        | %      | 80-120 | 07.10.17 23.45 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 5'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-020

Date Collected: 06.30.17 12.45

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 2740       | 15.0  | mg/kg  | 07.04.17 20.36 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 4310       | 15.0  | mg/kg  | 07.04.17 20.36 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 355        | 15.0  | mg/kg  | 07.04.17 20.36 |      | 1   |
| Total TPH                         | PHC635     | 7410       | 15.0  | mg/kg  | 07.04.17 20.36 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 108        | %     | 70-135 | 07.04.17 20.36 |      |     |
| o-Terphenyl                       | 84-15-1    | 83         | %     | 70-135 | 07.04.17 20.36 |      |     |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.10.17 18.00

Basis: Wet Weight

Seq Number: 3021965

| Parameter            | Cas Number  | Result     | RL     | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|--------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.0199    | 0.0199 | mg/kg  | 07.11.17 14.13 | U    | 10  |
| Toluene              | 108-88-3    | 11.0       | 0.201  | mg/kg  | 07.11.17 00.01 | D    | 100 |
| Ethylbenzene         | 100-41-4    | 11.0       | 0.201  | mg/kg  | 07.11.17 00.01 | D    | 100 |
| m,p-Xylenes          | 179601-23-1 | 74.4       | 0.402  | mg/kg  | 07.11.17 00.01 | D    | 100 |
| o-Xylene             | 95-47-6     | 27.4       | 0.201  | mg/kg  | 07.11.17 00.01 | D    | 100 |
| Total Xylenes        | 1330-20-7   | 102        | 0.201  | mg/kg  | 07.11.17 00.01 |      | 100 |
| Total BTEX           |             | 124        | 0.0199 | mg/kg  | 07.11.17 00.01 |      | 100 |
| Surrogate            | Cas Number  | % Recovery | Units  | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4    | 903        | %      | 80-120 | 07.11.17 14.13 | **   |     |
| 1,4-Difluorobenzene  | 540-36-3    | 82         | %      | 80-120 | 07.11.17 14.13 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 8'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-021

Date Collected: 06.30.17 13.00

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021777

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 317        | 15.0  | mg/kg  | 07.04.17 22.23 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1200       | 15.0  | mg/kg  | 07.04.17 22.23 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 89.1       | 15.0  | mg/kg  | 07.04.17 22.23 |      | 1   |
| Total TPH                         | PHC635     | 1610       | 15.0  | mg/kg  | 07.04.17 22.23 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 110        | %     | 70-135 | 07.04.17 22.23 |      |     |
| o-Terphenyl                       | 84-15-1    | 101        | %     | 70-135 | 07.04.17 22.23 |      |     |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.10.17 08.00

Basis: Wet Weight

Seq Number: 3021854

| Parameter            | Cas Number  | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00200   | 0.00200 | mg/kg  | 07.10.17 16.11 | U    | 1   |
| Toluene              | 108-88-3    | 0.00305    | 0.00200 | mg/kg  | 07.10.17 16.11 |      | 1   |
| Ethylbenzene         | 100-41-4    | <0.00200   | 0.00200 | mg/kg  | 07.10.17 16.11 | U    | 1   |
| m,p-Xylenes          | 179601-23-1 | 0.116      | 0.00401 | mg/kg  | 07.10.17 16.11 |      | 1   |
| o-Xylene             | 95-47-6     | 0.0859     | 0.00200 | mg/kg  | 07.10.17 16.11 |      | 1   |
| Total Xylenes        | 1330-20-7   | 0.202      | 0.00200 | mg/kg  | 07.10.17 16.11 |      | 1   |
| Total BTEX           |             | 0.205      | 0.00200 | mg/kg  | 07.10.17 16.11 |      | 1   |
| Surrogate            | Cas Number  | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4    | 107        | %       | 80-120 | 07.10.17 16.11 |      |     |
| 1,4-Difluorobenzene  | 540-36-3    | 95         | %       | 80-120 | 07.10.17 16.11 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 11'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-022

Date Collected: 06.30.17 13.15

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021777

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 16.4       | 15.0  | mg/kg  | 07.04.17 23.28 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 130        | 15.0  | mg/kg  | 07.04.17 23.28 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 07.04.17 23.28 | U    | 1   |
| Total TPH                         | PHC635     | 146        | 15.0  | mg/kg  | 07.04.17 23.28 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 110        | %     | 70-135 | 07.04.17 23.28 |      |     |
| o-Terphenyl                       | 84-15-1    | 109        | %     | 70-135 | 07.04.17 23.28 |      |     |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number  | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00199   | 0.00199 | mg/kg  | 07.07.17 02.08 | U    | 1   |
| Toluene              | 108-88-3    | <0.00199   | 0.00199 | mg/kg  | 07.07.17 02.08 | U    | 1   |
| Ethylbenzene         | 100-41-4    | <0.00199   | 0.00199 | mg/kg  | 07.07.17 02.08 | U    | 1   |
| m,p-Xylenes          | 179601-23-1 | <0.00398   | 0.00398 | mg/kg  | 07.07.17 02.08 | U    | 1   |
| o-Xylene             | 95-47-6     | <0.00199   | 0.00199 | mg/kg  | 07.07.17 02.08 | U    | 1   |
| Total Xylenes        | 1330-20-7   | <0.00199   | 0.00199 | mg/kg  | 07.07.17 02.08 | U    | 1   |
| Total BTEX           |             | <0.00199   | 0.00199 | mg/kg  | 07.07.17 02.08 | U    | 1   |
| Surrogate            | Cas Number  | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 1,4-Difluorobenzene  | 540-36-3    | 82         | %       | 80-120 | 07.07.17 02.08 |      |     |
| 4-Bromofluorobenzene | 460-00-4    | 90         | %       | 80-120 | 07.07.17 02.08 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 17'** Matrix: Soil Date Received: 07.03.17 11.55  
Lab Sample Id: 556808-023 Date Collected: 06.30.17 13.30  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MGO % Moisture:  
Analyst: MGO Date Prep: 07.07.17 16.30 Basis: Wet Weight  
Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 7.33   | 4.94 | mg/kg | 07.07.17 22.12 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 07.04.17 10.00 Basis: Wet Weight  
Seq Number: 3021777

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 07.04.17 23.49 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0  | 15.0 | mg/kg | 07.04.17 23.49 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0  | 15.0 | mg/kg | 07.04.17 23.49 | U    | 1   |
| Total TPH                         | PHC635     | <15.0  | 15.0 | mg/kg | 07.04.17 23.49 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 99         | %     | 70-135 | 07.04.17 23.49 |      |
| o-Terphenyl    | 84-15-1    | 100        | %     | 70-135 | 07.04.17 23.49 |      |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 17'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-023

Date Collected: 06.30.17 13.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.24       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.24       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.24       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 07.07.17 02.24       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.24       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.24       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.24       | 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          | 92                | %            | 80-120        | 07.07.17 02.24       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 91                | %            | 80-120        | 07.07.17 02.24       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **North Trench-1 1'** Matrix: Soil Date Received: 07.03.17 11.55  
Lab Sample Id: 556808-024 Date Collected: 06.30.17 13.35  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MGO % Moisture:  
Analyst: MGO Date Prep: 07.07.17 16.30 Basis: Wet Weight  
Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 281    | 4.97 | mg/kg | 07.07.17 22.35 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 07.04.17 10.00 Basis: Wet Weight  
Seq Number: 3021777

| Parameter                         | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|-----------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610            | <15.0             | 15.0         | mg/kg         | 07.05.17 00.10       | U           | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO         | <15.0             | 15.0         | mg/kg         | 07.05.17 00.10       | U           | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835          | <15.0             | 15.0         | mg/kg         | 07.05.17 00.10       | U           | 1   |
| Total TPH                         | PHC635            | <15.0             | 15.0         | mg/kg         | 07.05.17 00.10       | 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> |     |
| 1-Chlorooctane                    | 111-85-3          | 95                | %            | 70-135        | 07.05.17 00.10       |             |     |
| o-Terphenyl                       | 84-15-1           | 92                | %            | 70-135        | 07.05.17 00.10       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **North Trench-1 1'** Matrix: Soil Date Received: 07.03.17 11.55  
Lab Sample Id: 556808-024 Date Collected: 06.30.17 13.35  
Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 07.06.17 15.00 Basis: Wet Weight  
Seq Number: 3021700

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 07.07.17 02.40       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 07.07.17 02.40       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 07.07.17 02.40       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 07.07.17 02.40       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 07.07.17 02.40       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00201          | 0.00201      | mg/kg         | 07.07.17 02.40       | U           | 1   |
| Total BTEX           |                   | <0.00201          | 0.00201      | mg/kg         | 07.07.17 02.40       | 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          | 87                | %            | 80-120        | 07.07.17 02.40       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 94                | %            | 80-120        | 07.07.17 02.40       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **East Trench-1 1'** Matrix: Soil Date Received: 07.03.17 11.55  
Lab Sample Id: 556808-025 Date Collected: 06.30.17 13.45  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MGO % Moisture:  
Analyst: MGO Date Prep: 07.07.17 16.30 Basis: Wet Weight  
Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 298    | 4.97 | mg/kg | 07.07.17 22.43 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 07.04.17 10.00 Basis: Wet Weight  
Seq Number: 3021777

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 07.05.17 00.31 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 28.8   | 15.0 | mg/kg | 07.05.17 00.31 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0  | 15.0 | mg/kg | 07.05.17 00.31 | U    | 1   |
| Total TPH                         | PHC635     | 28.8   | 15.0 | mg/kg | 07.05.17 00.31 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 99         | %     | 70-135 | 07.05.17 00.31 |      |
| o-Terphenyl    | 84-15-1    | 98         | %     | 70-135 | 07.05.17 00.31 |      |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **East Trench-1 1'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-025

Date Collected: 06.30.17 13.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.56       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.56       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.56       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 07.07.17 02.56       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.56       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.56       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.56       | 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          | 109               | %            | 80-120        | 07.07.17 02.56       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 109               | %            | 80-120        | 07.07.17 02.56       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **South Trench-1 1'** Matrix: Soil Date Received: 07.03.17 11.55  
Lab Sample Id: 556808-026 Date Collected: 06.30.17 13.55  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MGO % Moisture:  
Analyst: MGO Date Prep: 07.07.17 16.30 Basis: Wet Weight  
Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 38.0   | 4.94 | mg/kg | 07.07.17 22.50 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 07.04.17 10.00 Basis: Wet Weight  
Seq Number: 3021777

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 07.05.17 00.53 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 142    | 15.0 | mg/kg | 07.05.17 00.53 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 25.3   | 15.0 | mg/kg | 07.05.17 00.53 |      | 1   |
| Total TPH                         | PHC635     | 167    | 15.0 | mg/kg | 07.05.17 00.53 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 105        | %     | 70-135 | 07.05.17 00.53 |      |
| o-Terphenyl    | 84-15-1    | 98         | %     | 70-135 | 07.05.17 00.53 |      |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **South Trench-1 1'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-026

Date Collected: 06.30.17 13.55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 07.07.17 03.12       | U           | 1   |
| Toluene              | 108-88-3          | <0.00198          | 0.00198      | mg/kg         | 07.07.17 03.12       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00198          | 0.00198      | mg/kg         | 07.07.17 03.12       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00397          | 0.00397      | mg/kg         | 07.07.17 03.12       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00198          | 0.00198      | mg/kg         | 07.07.17 03.12       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00198          | 0.00198      | mg/kg         | 07.07.17 03.12       | U           | 1   |
| Total BTEX           |                   | <0.00198          | 0.00198      | mg/kg         | 07.07.17 03.12       | 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          | 105               | %            | 80-120        | 07.07.17 03.12       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 114               | %            | 80-120        | 07.07.17 03.12       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **WesT Trench-1 1'** Matrix: Soil Date Received: 07.03.17 11.55  
Lab Sample Id: 556808-027 Date Collected: 06.30.17 10.10  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MGO % Moisture:  
Analyst: MGO Date Prep: 07.07.17 16.30 Basis: Wet Weight  
Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 74.9   | 4.95 | mg/kg | 07.07.17 22.58 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 07.04.17 10.00 Basis: Wet Weight  
Seq Number: 3021777

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 1380   | 15.0 | mg/kg | 07.05.17 01.14 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 4940   | 15.0 | mg/kg | 07.05.17 01.14 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 424    | 15.0 | mg/kg | 07.05.17 01.14 |      | 1   |
| Total TPH                         | PHC635     | 6740   | 15.0 | mg/kg | 07.05.17 01.14 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 98         | %     | 70-135 | 07.05.17 01.14 |      |
| o-Terphenyl    | 84-15-1    | 82         | %     | 70-135 | 07.05.17 01.14 |      |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **WesT Trench-1 1'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-027

Date Collected: 06.30.17 10.10

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.10.17 18.00

Basis: Wet Weight

Seq Number: 3021965

| Parameter            | Cas Number  | Result     | RL     | Units | Analysis Date  | Flag           | Dil  |
|----------------------|-------------|------------|--------|-------|----------------|----------------|------|
| Benzene              | 71-43-2     | <0.0202    | 0.0202 | mg/kg | 07.11.17 13.56 | U              | 10   |
| Toluene              | 108-88-3    | 0.278      | 0.0202 | mg/kg | 07.11.17 13.56 |                | 10   |
| Ethylbenzene         | 100-41-4    | 0.373      | 0.0202 | mg/kg | 07.11.17 13.56 |                | 10   |
| m,p-Xylenes          | 179601-23-1 | 2.08       | 0.0403 | mg/kg | 07.11.17 13.56 |                | 10   |
| o-Xylene             | 95-47-6     | 2.03       | 0.0202 | mg/kg | 07.11.17 13.56 |                | 10   |
| Total Xylenes        | 1330-20-7   | 4.11       | 0.0202 | mg/kg | 07.11.17 13.56 |                | 10   |
| Total BTEX           |             | 4.76       | 0.0202 | mg/kg | 07.11.17 13.56 |                | 10   |
| Surrogate            | Cas Number  | % Recovery |        | Units | Limits         | Analysis Date  | Flag |
| 1,4-Difluorobenzene  | 540-36-3    | 92         |        | %     | 80-120         | 07.11.17 13.56 |      |
| 4-Bromofluorobenzene | 460-00-4    | 103        |        | %     | 80-120         | 07.11.17 13.56 |      |

- 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      **SQL** 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

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## QC Summary 556808

### TRC Solutions, Inc

Gunslinger 11 Federal Com #001H (03/18/17)

**Analytical Method: Chloride by EPA 300**

Seq Number: 3021783

MB Sample Id: 727344-1-BLK

Matrix: Solid

LCS Sample Id: 727344-1-BKS

Prep Method: E300P

Date Prep: 07.07.17

LCSD Sample Id: 727344-1-BSD

| 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          | 254        | 102      | 259         | 104       | 90-110 | 2    | 20        | mg/kg | 07.07.17 19:38 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3021783

Parent Sample Id: 556808-001

Matrix: Soil

MS Sample Id: 556808-001 S

Prep Method: E300P

Date Prep: 07.07.17

MSD Sample Id: 556808-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 13.8          | 246          | 251       | 96      | 262        | 101      | 90-110 | 4    | 20        | mg/kg | 07.07.17 20:01 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3021783

Parent Sample Id: 556808-017

Matrix: Soil

MS Sample Id: 556808-017 S

Prep Method: E300P

Date Prep: 07.07.17

MSD Sample Id: 556808-017 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 155           | 246          | 404       | 101     | 372        | 88       | 90-110 | 8    | 20        | mg/kg | 07.07.17 21:49 | X    |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3021776

MB Sample Id: 727234-1-BLK

Matrix: Solid

LCS Sample Id: 727234-1-BKS

Prep Method: TX1005P

Date Prep: 07.04.17

LCSD Sample Id: 727234-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0     | 1000         | 1090       | 109      | 1110        | 111       | 70-135 | 2    | 35        | mg/kg | 07.04.17 11:54 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 1100       | 110      | 1130        | 113       | 70-135 | 3    | 35        | mg/kg | 07.04.17 11:54 |      |

**Surrogate**

|                | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 117     |         | 116      |          | 116       |           | 70-135 | %     | 07.04.17 11:54 |
| o-Terphenyl    | 125     |         | 109      |          | 110       |           | 70-135 | %     | 07.04.17 11:54 |



## QC Summary 556808

### TRC Solutions, Inc

Gunslinger 11 Federal Com #001H (03/18/17)

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3021777

MB Sample Id: 727236-1-BLK

Matrix: Solid

LCS Sample Id: 727236-1-BKS

Prep Method: TX1005P

Date Prep: 07.04.17

LCSD Sample Id: 727236-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD  | RPD Limit      | Units | Analysis Date  | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|-------|----------------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0     | 1000         | 983        | 98       | 993         | 99        | 70-135 | 1     | 35             | mg/kg | 07.04.17 21:40 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 1010       | 101      | 963         | 96        | 70-135 | 5     | 35             | mg/kg | 07.04.17 21:40 |      |
| Surrogate                         | MB %Rec   | MB Flag      | LCS %Rec   | LCS Flag | LCSD %Rec   | LCSD Flag | Limits | Units | Analysis Date  |       |                |      |
| 1-Chlorooctane                    | 110       |              | 100        |          | 102         |           | 70-135 | %     | 07.04.17 21:40 |       |                |      |
| o-Terphenyl                       | 117       |              | 98         |          | 102         |           | 70-135 | %     | 07.04.17 21:40 |       |                |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3021776

Parent Sample Id: 556808-001

Matrix: Soil

MS Sample Id: 556808-001 S

Prep Method: TX1005P

Date Prep: 07.04.17

MSD Sample Id: 556808-001 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         | 999          | 1020      | 102     | 1030       | 103      | 70-135 | 1     | 35             | mg/kg | 07.04.17 12:57 |      |
| Diesel Range Organics (DRO)       | <15.0         | 999          | 987       | 99      | 1020       | 102      | 70-135 | 3     | 35             | mg/kg | 07.04.17 12:57 |      |
| Surrogate                         |               |              | MS %Rec   | MS Flag | MSD %Rec   | MSD Flag | Limits | Units | Analysis Date  |       |                |      |
| 1-Chlorooctane                    |               |              | 111       |         | 112        |          | 70-135 | %     | 07.04.17 12:57 |       |                |      |
| o-Terphenyl                       |               |              | 100       |         | 100        |          | 70-135 | %     | 07.04.17 12:57 |       |                |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3021777

Parent Sample Id: 556808-021

Matrix: Soil

MS Sample Id: 556808-021 S

Prep Method: TX1005P

Date Prep: 07.04.17

MSD Sample Id: 556808-021 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) | 317           | 998          | 1420      | 111     | 1360       | 104      | 70-135 | 4     | 35             | mg/kg | 07.04.17 22:45 |      |
| Diesel Range Organics (DRO)       | 1200          | 998          | 2350      | 115     | 2210       | 101      | 70-135 | 6     | 35             | mg/kg | 07.04.17 22:45 |      |
| Surrogate                         |               |              | MS %Rec   | MS Flag | MSD %Rec   | MSD Flag | Limits | Units | Analysis Date  |       |                |      |
| 1-Chlorooctane                    |               |              | 115       |         | 104        |          | 70-135 | %     | 07.04.17 22:45 |       |                |      |
| o-Terphenyl                       |               |              | 97        |         | 87         |          | 70-135 | %     | 07.04.17 22:45 |       |                |      |

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (03/18/17)

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3021649

MB Sample Id: 727276-1-BLK

Matrix: Solid

LCS Sample Id: 727276-1-BKS

Prep Method: SW5030B

Date Prep: 07.06.17

LCSD Sample Id: 727276-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00201  | 0.100        | 0.118      | 118      | 0.120       | 120       | 70-130 | 2    | 35        | mg/kg | 07.06.17 10:10 |      |
| Toluene      | <0.00201  | 0.100        | 0.108      | 108      | 0.112       | 112       | 70-130 | 4    | 35        | mg/kg | 07.06.17 10:10 |      |
| Ethylbenzene | <0.00201  | 0.100        | 0.108      | 108      | 0.119       | 119       | 71-129 | 10   | 35        | mg/kg | 07.06.17 10:10 |      |
| m,p-Xylenes  | <0.00402  | 0.201        | 0.200      | 100      | 0.215       | 108       | 70-135 | 7    | 35        | mg/kg | 07.06.17 10:10 |      |
| o-Xylene     | <0.00201  | 0.100        | 0.111      | 111      | 0.115       | 115       | 71-133 | 4    | 35        | mg/kg | 07.06.17 10:10 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 103     |         | 97       |          | 98        |           | 80-120 | %     | 07.06.17 10:10 |
| 4-Bromofluorobenzene | 92      |         | 97       |          | 110       |           | 80-120 | %     | 07.06.17 10:10 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3021700

MB Sample Id: 727313-1-BLK

Matrix: Solid

LCS Sample Id: 727313-1-BKS

Prep Method: SW5030B

Date Prep: 07.06.17

LCSD Sample Id: 727313-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00202  | 0.101        | 0.125      | 124      | 0.101       | 101       | 70-130 | 21   | 35        | mg/kg | 07.06.17 21:17 |      |
| Toluene      | <0.00202  | 0.101        | 0.117      | 116      | 0.0917      | 92        | 70-130 | 24   | 35        | mg/kg | 07.06.17 21:17 |      |
| Ethylbenzene | <0.00202  | 0.101        | 0.115      | 114      | 0.0947      | 95        | 71-129 | 19   | 35        | mg/kg | 07.06.17 21:17 |      |
| m,p-Xylenes  | <0.00403  | 0.202        | 0.207      | 102      | 0.170       | 85        | 70-135 | 20   | 35        | mg/kg | 07.06.17 21:17 |      |
| o-Xylene     | <0.00202  | 0.101        | 0.111      | 110      | 0.0936      | 94        | 71-133 | 17   | 35        | mg/kg | 07.06.17 21:17 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 96      |         | 87       |          | 95        |           | 80-120 | %     | 07.06.17 21:17 |
| 4-Bromofluorobenzene | 111     |         | 86       |          | 91        |           | 80-120 | %     | 07.06.17 21:17 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3021705

MB Sample Id: 727314-1-BLK

Matrix: Solid

LCS Sample Id: 727314-1-BKS

Prep Method: SW5030B

Date Prep: 07.07.17

LCSD Sample Id: 727314-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00202  | 0.101        | 0.117      | 116      | 0.116       | 115       | 70-130 | 1    | 35        | mg/kg | 07.07.17 08:50 |      |
| Toluene      | <0.00202  | 0.101        | 0.107      | 106      | 0.103       | 102       | 70-130 | 4    | 35        | mg/kg | 07.07.17 08:50 |      |
| Ethylbenzene | <0.00202  | 0.101        | 0.111      | 110      | 0.112       | 111       | 71-129 | 1    | 35        | mg/kg | 07.07.17 08:50 |      |
| m,p-Xylenes  | <0.00404  | 0.202        | 0.196      | 97       | 0.199       | 99        | 70-135 | 2    | 35        | mg/kg | 07.07.17 08:50 |      |
| o-Xylene     | <0.00202  | 0.101        | 0.104      | 103      | 0.108       | 107       | 71-133 | 4    | 35        | mg/kg | 07.07.17 08:50 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 103     |         | 88       |          | 94        |           | 80-120 | %     | 07.07.17 08:50 |
| 4-Bromofluorobenzene | 106     |         | 115      |          | 99        |           | 80-120 | %     | 07.07.17 08:50 |

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (03/18/17)

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3021854

MB Sample Id: 727410-1-BLK

Matrix: Solid

LCS Sample Id: 727410-1-BKS

Prep Method: SW5030B

Date Prep: 07.10.17

LCSD Sample Id: 727410-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00201  | 0.101        | 0.109      | 108      | 0.114       | 114       | 70-130 | 4    | 35        | mg/kg | 07.10.17 07:26 |      |
| Toluene      | <0.00201  | 0.101        | 0.0959     | 95       | 0.105       | 105       | 70-130 | 9    | 35        | mg/kg | 07.10.17 07:26 |      |
| Ethylbenzene | <0.00201  | 0.101        | 0.103      | 102      | 0.103       | 103       | 71-129 | 0    | 35        | mg/kg | 07.10.17 07:26 |      |
| m,p-Xylenes  | <0.00402  | 0.201        | 0.181      | 90       | 0.185       | 92        | 70-135 | 2    | 35        | mg/kg | 07.10.17 07:26 |      |
| o-Xylene     | <0.00201  | 0.101        | 0.104      | 103      | 0.100       | 100       | 71-133 | 4    | 35        | mg/kg | 07.10.17 07:26 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 101     |         | 86       |          | 85        |           | 80-120 | %     | 07.10.17 07:26 |
| 4-Bromofluorobenzene | 96      |         | 101      |          | 87        |           | 80-120 | %     | 07.10.17 07:26 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3021934

MB Sample Id: 727453-1-BLK

Matrix: Solid

LCS Sample Id: 727453-1-BKS

Prep Method: SW5030B

Date Prep: 07.10.17

LCSD Sample Id: 727453-1-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  | 0.0998       | 0.121      | 121      | 0.113       | 113       | 70-130 | 7    | 35        | mg/kg | 07.10.17 16:43 |      |
| Toluene      | <0.00200  | 0.0998       | 0.117      | 117      | 0.105       | 105       | 70-130 | 11   | 35        | mg/kg | 07.10.17 16:43 |      |
| Ethylbenzene | <0.00200  | 0.0998       | 0.120      | 120      | 0.109       | 109       | 71-129 | 10   | 35        | mg/kg | 07.10.17 16:43 |      |
| m,p-Xylenes  | <0.00399  | 0.200        | 0.210      | 105      | 0.191       | 95        | 70-135 | 9    | 35        | mg/kg | 07.10.17 16:43 |      |
| o-Xylene     | <0.00200  | 0.0998       | 0.117      | 117      | 0.102       | 102       | 71-133 | 14   | 35        | mg/kg | 07.10.17 16:43 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 88      |         | 94       |          | 87        |           | 80-120 | %     | 07.10.17 16:43 |
| 4-Bromofluorobenzene | 85      |         | 89       |          | 90        |           | 80-120 | %     | 07.10.17 16:43 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3021965

MB Sample Id: 727471-1-BLK

Matrix: Solid

LCS Sample Id: 727471-1-BKS

Prep Method: SW5030B

Date Prep: 07.10.17

LCSD Sample Id: 727471-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00199  | 0.0994       | 0.0970     | 98       | 0.123       | 123       | 70-130 | 24   | 35        | mg/kg | 07.11.17 01:06 |      |
| Toluene      | <0.00199  | 0.0994       | 0.0865     | 87       | 0.115       | 115       | 70-130 | 28   | 35        | mg/kg | 07.11.17 01:06 |      |
| Ethylbenzene | <0.00199  | 0.0994       | 0.0941     | 95       | 0.121       | 121       | 71-129 | 25   | 35        | mg/kg | 07.11.17 01:06 |      |
| m,p-Xylenes  | <0.00398  | 0.199        | 0.166      | 83       | 0.210       | 105       | 70-135 | 23   | 35        | mg/kg | 07.11.17 01:06 |      |
| o-Xylene     | <0.00199  | 0.0994       | 0.0979     | 98       | 0.111       | 111       | 71-133 | 13   | 35        | mg/kg | 07.11.17 01:06 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 89      |         | 84       |          | 106       |           | 80-120 | %     | 07.11.17 01:06 |
| 4-Bromofluorobenzene | 96      |         | 93       |          | 97        |           | 80-120 | %     | 07.11.17 01:06 |



## QC Summary 556808

### TRC Solutions, Inc

Gunslinger 11 Federal Com #001H (03/18/17)

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

Seq Number: 3021649

Parent Sample Id: 556732-001

Matrix: Soil

MS Sample Id: 556732-001 S

Prep Method: SW5030B

Date Prep: 07.06.17

MSD Sample Id: 556732-001 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       | 0.114     | 114     | 0.109      | 109      | 70-130 | 4    | 35        | mg/kg | 07.06.17 10:56 |      |
| Toluene      | <0.00199      | 0.0996       | 0.106     | 106     | 0.0958     | 96       | 70-130 | 10   | 35        | mg/kg | 07.06.17 10:56 |      |
| Ethylbenzene | <0.00199      | 0.0996       | 0.102     | 102     | 0.0947     | 95       | 71-129 | 7    | 35        | mg/kg | 07.06.17 10:56 |      |
| m,p-Xylenes  | <0.00398      | 0.199        | 0.182     | 91      | 0.171      | 86       | 70-135 | 6    | 35        | mg/kg | 07.06.17 10:56 |      |
| o-Xylene     | <0.00199      | 0.0996       | 0.0991    | 99      | 0.0915     | 92       | 71-133 | 8    | 35        | mg/kg | 07.06.17 10:56 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 110     |         | 98       |          | 80-120 | %     | 07.06.17 10:56 |
| 4-Bromofluorobenzene | 118     |         | 95       |          | 80-120 | %     | 07.06.17 10:56 |

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

Seq Number: 3021700

Parent Sample Id: 556808-007

Matrix: Soil

MS Sample Id: 556808-007 S

Prep Method: SW5030B

Date Prep: 07.06.17

MSD Sample Id: 556808-007 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00200      | 0.0998       | 0.112     | 112     | 0.110      | 110      | 70-130 | 2    | 35        | mg/kg | 07.06.17 21:49 |      |
| Toluene      | <0.00200      | 0.0998       | 0.0954    | 96      | 0.0886     | 89       | 70-130 | 7    | 35        | mg/kg | 07.06.17 21:49 |      |
| Ethylbenzene | <0.00200      | 0.0998       | 0.0902    | 90      | 0.0861     | 86       | 71-129 | 5    | 35        | mg/kg | 07.06.17 21:49 |      |
| m,p-Xylenes  | <0.00399      | 0.200        | 0.156     | 78      | 0.152      | 76       | 70-135 | 3    | 35        | mg/kg | 07.06.17 21:49 |      |
| o-Xylene     | <0.00200      | 0.0998       | 0.0907    | 91      | 0.0801     | 80       | 71-133 | 12   | 35        | mg/kg | 07.06.17 21:49 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 88      |         | 107      |          | 80-120 | %     | 07.06.17 21:49 |
| 4-Bromofluorobenzene | 118     |         | 101      |          | 80-120 | %     | 07.06.17 21:49 |

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

Seq Number: 3021705

Parent Sample Id: 556810-012

Matrix: Soil

MS Sample Id: 556810-012 S

Prep Method: SW5030B

Date Prep: 07.07.17

MSD Sample Id: 556810-012 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00200      | 0.0998       | 0.101     | 101     | 0.121      | 121      | 70-130 | 18   | 35        | mg/kg | 07.07.17 09:23 |      |
| Toluene      | <0.00200      | 0.0998       | 0.0966    | 97      | 0.114      | 114      | 70-130 | 17   | 35        | mg/kg | 07.07.17 09:23 |      |
| Ethylbenzene | <0.00200      | 0.0998       | 0.0958    | 96      | 0.110      | 110      | 71-129 | 14   | 35        | mg/kg | 07.07.17 09:23 |      |
| m,p-Xylenes  | <0.00399      | 0.200        | 0.168     | 84      | 0.194      | 97       | 70-135 | 14   | 35        | mg/kg | 07.07.17 09:23 |      |
| o-Xylene     | <0.00200      | 0.0998       | 0.0870    | 87      | 0.106      | 106      | 71-133 | 20   | 35        | mg/kg | 07.07.17 09:23 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 95      |         | 98       |          | 80-120 | %     | 07.07.17 09:23 |
| 4-Bromofluorobenzene | 98      |         | 98       |          | 80-120 | %     | 07.07.17 09:23 |



## QC Summary 556808

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (03/18/17)

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

Seq Number: 3021854

Parent Sample Id: 556914-001

Matrix: Soil

MS Sample Id: 556914-001 S

Prep Method: SW5030B

Date Prep: 07.10.17

MSD Sample Id: 556914-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00200      | 0.0998       | 0.106     | 106     | 0.102      | 102      | 70-130 | 4    | 35        | mg/kg | 07.10.17 08:04 |      |
| Toluene      | <0.00200      | 0.0998       | 0.0863    | 86      | 0.0932     | 93       | 70-130 | 8    | 35        | mg/kg | 07.10.17 08:04 |      |
| Ethylbenzene | <0.00200      | 0.0998       | 0.0928    | 93      | 0.0971     | 97       | 71-129 | 5    | 35        | mg/kg | 07.10.17 08:04 |      |
| m,p-Xylenes  | <0.00399      | 0.200        | 0.162     | 81      | 0.167      | 84       | 70-135 | 3    | 35        | mg/kg | 07.10.17 08:04 |      |
| o-Xylene     | <0.00200      | 0.0998       | 0.0860    | 86      | 0.0965     | 97       | 71-133 | 12   | 35        | mg/kg | 07.10.17 08:04 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 112     |         | 98       |          | 80-120 | %     | 07.10.17 08:04 |
| 4-Bromofluorobenzene | 106     |         | 108      |          | 80-120 | %     | 07.10.17 08:04 |

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

Seq Number: 3021934

Parent Sample Id: 556932-002

Matrix: Soil

MS Sample Id: 556932-002 S

Prep Method: SW5030B

Date Prep: 07.10.17

MSD Sample Id: 556932-002 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       | 0.0935    | 94      | 0.102      | 102      | 70-130 | 9    | 35        | mg/kg | 07.10.17 17:16 |      |
| Toluene      | <0.00199      | 0.0996       | 0.0778    | 78      | 0.0893     | 89       | 70-130 | 14   | 35        | mg/kg | 07.10.17 17:16 |      |
| Ethylbenzene | <0.00199      | 0.0996       | 0.0848    | 85      | 0.0940     | 94       | 71-129 | 10   | 35        | mg/kg | 07.10.17 17:16 |      |
| m,p-Xylenes  | <0.00398      | 0.199        | 0.142     | 71      | 0.162      | 81       | 70-135 | 13   | 35        | mg/kg | 07.10.17 17:16 |      |
| o-Xylene     | <0.00199      | 0.0996       | 0.0823    | 83      | 0.0874     | 88       | 71-133 | 6    | 35        | mg/kg | 07.10.17 17:16 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 109     |         | 103      |          | 80-120 | %     | 07.10.17 17:16 |
| 4-Bromofluorobenzene | 119     |         | 111      |          | 80-120 | %     | 07.10.17 17:16 |

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

Seq Number: 3021965

Parent Sample Id: 556811-001

Matrix: Soil

MS Sample Id: 556811-001 S

Prep Method: SW5030B

Date Prep: 07.10.17

MSD Sample Id: 556811-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00200      | 0.100        | 0.109     | 109     | 0.103      | 103      | 70-130 | 6    | 35        | mg/kg | 07.11.17 11:14 |      |
| Toluene      | <0.00200      | 0.100        | 0.0984    | 98      | 0.0907     | 91       | 70-130 | 8    | 35        | mg/kg | 07.11.17 11:14 |      |
| Ethylbenzene | <0.00200      | 0.100        | 0.102     | 102     | 0.0879     | 88       | 71-129 | 15   | 35        | mg/kg | 07.11.17 11:14 |      |
| m,p-Xylenes  | 0.0181        | 0.200        | 0.182     | 82      | 0.185      | 83       | 70-135 | 2    | 35        | mg/kg | 07.11.17 11:14 |      |
| o-Xylene     | <0.00200      | 0.100        | 0.101     | 101     | 0.0933     | 93       | 71-133 | 8    | 35        | mg/kg | 07.11.17 11:14 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 88      |         | 98       |          | 80-120 | %     | 07.11.17 11:14 |
| 4-Bromofluorobenzene | 98      |         | 103      |          | 80-120 | %     | 07.11.17 11:14 |



Phoenix, Arizona (480-355-0900)

| Client / Reporting Information |                                                                        | Project Information  |                                                                                                                                                       | Analytical Information |  | Matrix Codes |  |
|--------------------------------|------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|--------------|--|
| Company Name / Branch:         | TRC                                                                    | Project Name/Number: | Gunslinger 11 Federal Com #001H (3/18/17)                                                                                                             |                        |  |              |  |
| Company Address:               | 2057 Commerce Drive<br>Midland, Texas 79703                            | Project Location:    | Lea County, NM                                                                                                                                        |                        |  |              |  |
| Email:                         | <a href="mailto:nrgreen@trcsolutions.com">nrgreen@trcsolutions.com</a> | Invoice To:          | Rebecca Haskell with COG Operating LLC rshaskell@concho.com<br>600 W Illinois Avenue   Midland, TX 79701<br>Direct: 432-818-2372   Main: 432.683.7443 |                        |  |              |  |
| Project Contact:               | Nikki Green                                                            | PO Number:           |                                                                                                                                                       |                        |  |              |  |
| Samplers Name: Nikki Green     |                                                                        |                      |                                                                                                                                                       |                        |  |              |  |



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Phoenix, Arizona (480-355-0900)

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Xenco Job #

556808

| Client / Reporting Information                                                                          |                                |              |                 | Project Information                                                                                                                                                |        |              |    |                 |      |       |      |        |      | Analytical Information |                  | Matrix Codes |                 |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
|---------------------------------------------------------------------------------------------------------|--------------------------------|--------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------|----|-----------------|------|-------|------|--------|------|------------------------|------------------|--------------|-----------------|--|-----------------------------------------------------|--|--|--|-------------------------------------------------------------|--|--|--|----------------------------------------|--|--|--|----------------------|--|--|--|
| Company Name / Branch:<br>TRC                                                                           |                                |              |                 | Project Name/Number:<br>Gunslinger 11 Federal Com #001H (3/18/17)                                                                                                  |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| Company Address:<br>2057 Commerce Drive<br>Midland, Texas 79703                                         |                                |              |                 | Project Location:<br>Lea County, NM                                                                                                                                |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| Email:<br>ngreen@trcsolutions.com                                                                       |                                |              |                 | Invoice To:<br>Rebecca Haskell with COG Operating LLC rhaskell@xenco.com<br>600 W Illinois Avenue   Midland, TX 79701<br>Direct: 432-818-2372   Main: 432-683,7443 |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| Project Contact:<br>NIKKI Green                                                                         |                                |              |                 | PO Number:                                                                                                                                                         |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| Sample's Name: NIKKI Green                                                                              |                                |              |                 |                                                                                                                                                                    |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| No.                                                                                                     | Field ID / Point of Collection | Sample Depth | Collection Date | Time                                                                                                                                                               | Matrix | # of bottles | IC | NaOH/Zn Acetate | HNO3 | H2SO4 | NaOH | NaHSO4 | MEOH | NONE                   | TPH 8015M EXT 36 | BTEX 8021B   | Chloride E300.0 |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| 1                                                                                                       | Trench-2 8'                    |              | 30-Jun          | 1100                                                                                                                                                               | S      | 1            |    |                 |      |       |      |        |      |                        | X                | X            | X               |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| 2                                                                                                       | Trench-3 6"                    |              | 30-Jun          | 1115                                                                                                                                                               | S      | 1            |    |                 |      |       |      |        |      |                        | X                | X            | X               |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| 3                                                                                                       | Trench-3 1'                    |              | 30-Jun          | 1120                                                                                                                                                               | S      | 1            |    |                 |      |       |      |        |      |                        | X                | X            | X               |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| 4                                                                                                       | Trench-3 3'                    |              | 30-Jun          | 1130                                                                                                                                                               | S      | 1            |    |                 |      |       |      |        |      |                        | X                | X            | X               |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| 5                                                                                                       | Trench-3 5'                    |              | 30-Jun          | 1145                                                                                                                                                               | S      | 1            |    |                 |      |       |      |        |      |                        | X                | X            | X               |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| 6                                                                                                       | Trench-3 8'                    |              | 30-Jun          | 1200                                                                                                                                                               | S      | 1            |    |                 |      |       |      |        |      |                        | X                | X            | X               |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| 7                                                                                                       | Trench-4 6"                    |              | 30-Jun          | 1215                                                                                                                                                               | S      | 1            |    |                 |      |       |      |        |      |                        | X                | X            | X               |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| 8                                                                                                       | Trench-4 1'                    |              | 30-Jun          | 1220                                                                                                                                                               | S      | 1            |    |                 |      |       |      |        |      |                        | X                | X            | X               |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| 9                                                                                                       | Trench-4 3'                    |              | 30-Jun          | 1230                                                                                                                                                               | S      | 1            |    |                 |      |       |      |        |      |                        | X                | X            | X               |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| 10                                                                                                      | Trench-4 5'                    |              | 30-Jun          | 1245                                                                                                                                                               | S      | 1            |    |                 |      |       |      |        |      |                        | X                | X            | X               |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| Turnaround Time ( Business days)                                                                        |                                |              |                 |                                                                                                                                                                    |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  | Data Deliverable Information                        |  |  |  | Notes:                                                      |  |  |  |                                        |  |  |  |                      |  |  |  |
| <input type="checkbox"/> Same Day TAT                                                                   |                                |              |                 |                                                                                                                                                                    |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  | <input checked="" 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"/> Level III Std QC+ Forms    |  |  |  | <input type="checkbox"/> TRRP Level IV                      |  |  |  |                                        |  |  |  |                      |  |  |  |
| <input type="checkbox"/> 2 Day EMERGENCY                                                                |                                |              |                 |                                                                                                                                                                    |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  | <input checked="" 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 Supplier:                                                                               |                                |              |                 |                                                                                                                                                                    |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  | Date Time:                                          |  |  |  | Received By:                                                |  |  |  | Date Time:                             |  |  |  |                      |  |  |  |
| 1 <i>NIKKI Green</i>                                                                                    |                                |              |                 |                                                                                                                                                                    |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  | 7/31/17 11:55                                       |  |  |  | 1 <i>REBECCA HASKELL</i>                                    |  |  |  | 2                                      |  |  |  |                      |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |                                                                                                                                                                    |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  | Date Time:                                          |  |  |  | Received By:                                                |  |  |  | Date Time:                             |  |  |  |                      |  |  |  |
| 3                                                                                                       |                                |              |                 |                                                                                                                                                                    |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  |                                                     |  |  |  | 3                                                           |  |  |  | 4                                      |  |  |  |                      |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |                                                                                                                                                                    |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  | Date Time:                                          |  |  |  | Received By:                                                |  |  |  | Date Time:                             |  |  |  |                      |  |  |  |
| 5                                                                                                       |                                |              |                 |                                                                                                                                                                    |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  |                                                     |  |  |  | 5                                                           |  |  |  |                                        |  |  |  |                      |  |  |  |
| Custody Seal #                                                                                          |                                |              |                 |                                                                                                                                                                    |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  | Preserved where applicable                          |  |  |  | On Ice                                                      |  |  |  | Cooler Temp.                           |  |  |  | Thermo, Corr. Factor |  |  |  |
| FED-EX / UPS: Tracking #                                                                                |                                |              |                 |                                                                                                                                                                    |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| Temp: 5.1                                                                                               |                                |              |                 |                                                                                                                                                                    |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| CF: (0-6: -0.2°C)                                                                                       |                                |              |                 |                                                                                                                                                                    |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| Corrected Temp: 4.9                                                                                     |                                |              |                 |                                                                                                                                                                    |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |
| IR ID: R-8                                                                                              |                                |              |                 |                                                                                                                                                                    |        |              |    |                 |      |       |      |        |      |                        |                  |              |                 |  |                                                     |  |  |  |                                                             |  |  |  |                                        |  |  |  |                      |  |  |  |

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## CHAIN OF CUSTODY

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### Matrix Codes

**W = Water**

S = Soil/Sed/Solid

DW = Drinking Water

P = Product

SW = Surface water

SL = Sludge

WI = Wide

$$\|0\|$$

WW= Waste Water

 $A = A_{\text{air}}$ 

Field Comments

| Client / Reporting Information                                                                          |                                |              |                 |      |        | Project Information                                                                                                                                                |     |                 |      |       |      | Analytical Information                                     |      |      |                  |            |                 | Matrix Codes                           |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------|--------------------------------|--------------|-----------------|------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------|------|-------|------|------------------------------------------------------------|------|------|------------------|------------|-----------------|----------------------------------------|--|--|--|--|--|
| Company Name / Branch:<br>TRC                                                                           |                                |              |                 |      |        | Project Name/Number:<br>Gunslinger 11 Federal Com #001H (3/18/17)                                                                                                  |     |                 |      |       |      |                                                            |      |      |                  |            |                 |                                        |  |  |  |  |  |
| Company Address:<br>2057 Commerce Drive<br>Midland, Texas 79703                                         |                                |              |                 |      |        | Project Location:<br>Lea County, NM                                                                                                                                |     |                 |      |       |      |                                                            |      |      |                  |            |                 |                                        |  |  |  |  |  |
| Email:<br><a href="mailto:nrgreen@tcsolutions.com">nrgreen@tcsolutions.com</a>                          |                                |              |                 |      |        | Invoice To:<br>Rebecca Haskell with COG Operating LLC rshaskell@cogco.com<br>600 W Illinois Avenue   Midland, TX 79701<br>Direct: 432-818-2372   Main: 432-8837443 |     |                 |      |       |      |                                                            |      |      |                  |            |                 |                                        |  |  |  |  |  |
| Project Contact:<br>NIKKI GREEN                                                                         |                                |              |                 |      |        | Phone No:<br>432-564-6599                                                                                                                                          |     |                 |      |       |      |                                                            |      |      |                  |            |                 |                                        |  |  |  |  |  |
| Sampler's Name: Nikki Green                                                                             |                                |              |                 |      |        | PO Number:                                                                                                                                                         |     |                 |      |       |      |                                                            |      |      |                  |            |                 |                                        |  |  |  |  |  |
| No.                                                                                                     | Field ID / Point of Collection | Sample Depth | Collection Date | Time | Matrix | # of bottles                                                                                                                                                       | HCl | NaOH/Zn Acetate | HNO3 | H2SO4 | NaOH | NaHSO4                                                     | MeOH | NONE | TPH 8015M EXT 36 | BTEX 8021B | Chloride E300.0 |                                        |  |  |  |  |  |
| 1                                                                                                       | Trench-4 8'                    |              | 30-Jun          | 1300 | S      | 1                                                                                                                                                                  |     |                 |      |       |      |                                                            |      |      | X                | X          |                 |                                        |  |  |  |  |  |
| 2                                                                                                       | Trench-4 11'                   |              | 30-Jun          | 1315 | S      | 1                                                                                                                                                                  |     |                 |      |       |      |                                                            |      |      | X                | X          |                 |                                        |  |  |  |  |  |
| 3                                                                                                       | Trench-4 17'                   |              | 30-Jun          | 1330 | S      | 1                                                                                                                                                                  |     |                 |      |       |      |                                                            |      |      | X                | X          |                 |                                        |  |  |  |  |  |
| 4                                                                                                       | North Trench-1 1'              |              | 30-Jun          | 1335 | S      | 1                                                                                                                                                                  |     |                 |      |       |      |                                                            |      |      | X                | X          |                 |                                        |  |  |  |  |  |
| 5                                                                                                       | East Trench-1 1'               |              | 30-Jun          | 1345 | S      | 1                                                                                                                                                                  |     |                 |      |       |      |                                                            |      |      | X                | X          |                 |                                        |  |  |  |  |  |
| 6                                                                                                       | South Trench-1 1'              |              | 30-Jun          | 1355 | S      | 1                                                                                                                                                                  |     |                 |      |       |      |                                                            |      |      | X                | X          |                 |                                        |  |  |  |  |  |
| 7                                                                                                       | West Trench-1 2'               |              | 30-Jun          | 1010 | S      | 1                                                                                                                                                                  |     |                 |      |       |      |                                                            |      |      | X                | X          |                 |                                        |  |  |  |  |  |
| 8                                                                                                       |                                |              |                 |      |        |                                                                                                                                                                    |     |                 |      |       |      |                                                            |      |      |                  |            |                 |                                        |  |  |  |  |  |
| 9                                                                                                       |                                |              |                 |      |        |                                                                                                                                                                    |     |                 |      |       |      |                                                            |      |      |                  |            |                 |                                        |  |  |  |  |  |
| 10                                                                                                      |                                |              |                 |      |        |                                                                                                                                                                    |     |                 |      |       |      |                                                            |      |      |                  |            |                 |                                        |  |  |  |  |  |
| Turnaround Time (Business days)                                                                         |                                |              |                 |      |        | Data Deliverable Information                                                                                                                                       |     |                 |      |       |      | Notes:                                                     |      |      |                  |            |                 |                                        |  |  |  |  |  |
| <input type="checkbox"/> Same Day TAT                                                                   |                                |              |                 |      |        | <input checked="" 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 checked="" 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                                                  |                                |              |                 |      |        |                                                                                                                                                                    |     |                 |      |       |      |                                                            |      |      |                  |            |                 | FED-EX / UPS: Tracking #               |  |  |  |  |  |
| SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY |                                |              |                 |      |        |                                                                                                                                                                    |     |                 |      |       |      |                                                            |      |      |                  |            |                 |                                        |  |  |  |  |  |
| Relinquished by Sampler                                                                                 |                                |              |                 |      |        | Date Time: 7/8/17 11:55                                                                                                                                            |     |                 |      |       |      | Received By: [Signature]                                   |      |      |                  |            |                 | Date Time: 7/8/17 11:55                |  |  |  |  |  |
| Relinquished by: [Signature]                                                                            |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 3                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| 5                                                                                                       |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |
| Relinquished by:                                                                                        |                                |              |                 |      |        | Date Time:                                                                                                                                                         |     |                 |      |       |      | Received By:                                               |      |      |                  |            |                 | Date Time:                             |  |  |  |  |  |



**XENCO Laboratories**  
**Prelogin/Nonconformance Report- Sample Log-In**



**Client:** TRC Solutions, Inc

**Date/ Time Received:** 07/03/2017 11:55:00 AM

**Work Order #:** 556808

**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)?                              | 4.9      |
| #2 *Shipping container in good condition?                  | Yes      |
| #3 *Samples received on ice?                               | Yes      |
| #4 *Custody Seal present on shipping container/ cooler?    | N/A      |
| #5 *Custody Seals intact on shipping container/ cooler?    | N/A      |
| #6 Custody Seals intact on sample bottles?                 | N/A      |
| #7 *Custody Seals Signed and dated?                        | N/A      |
| #8 *Chain of Custody present?                              | Yes      |
| #9 Sample instructions complete on Chain of Custody?       | Yes      |
| #10 Any missing/extra samples?                             | No       |
| #11 Chain of Custody signed when relinquished/ received?   | Yes      |
| #12 Chain of Custody agrees with sample label(s)?          | Yes      |
| #13 Container label(s) legible and intact?                 | Yes      |
| #14 Sample matrix/ properties agree with Chain of Custody? | Yes      |
| #15 Samples in proper container/ bottle?                   | Yes      |
| #16 Samples properly preserved?                            | Yes      |
| #17 Sample container(s) intact?                            | Yes      |
| #18 Sufficient sample amount for indicated test(s)?        | Yes      |
| #19 All samples received within hold time?                 | Yes      |
| #20 Subcontract of sample(s)?                              | No       |
| #21 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:** Jessica Kramer  
Jessica Kramer

**Date:** 07/03/2017

**Checklist reviewed by:** Kelsey Brooks  
Kelsey Brooks

**Date:** 07/03/2017



# Certificate of Analysis Summary 556809

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (03/18/17)



Project Id:

Contact: Nikki Green

Project Location: Lea Co NM

Date Received in Lab: Mon Jul-03-17 11:55 am

Report Date: 18-JUL-17

Project Manager: Kelsey Brooks

|                            |                                   |                  |  |  |  |  |  |
|----------------------------|-----------------------------------|------------------|--|--|--|--|--|
| <b>Analysis Requested</b>  | <b>Lab Id:</b>                    | 556809-001       |  |  |  |  |  |
|                            | <b>Field Id:</b>                  | West Trench-1 3' |  |  |  |  |  |
|                            | <b>Depth:</b>                     |                  |  |  |  |  |  |
|                            | <b>Matrix:</b>                    | SOIL             |  |  |  |  |  |
|                            | <b>Sampled:</b>                   | Jun-30-17 10:25  |  |  |  |  |  |
| <b>BTEX by EPA 8021B</b>   | <b>Extracted:</b>                 | Jul-12-17 13:00  |  |  |  |  |  |
|                            | <b>Analyzed:</b>                  | Jul-12-17 19:39  |  |  |  |  |  |
|                            | <b>Units/RL:</b>                  | mg/kg RL         |  |  |  |  |  |
|                            | Benzene                           | 0.660 0.201      |  |  |  |  |  |
|                            | Toluene                           | 26.5 0.201       |  |  |  |  |  |
|                            | Ethylbenzene                      | 11.8 0.201       |  |  |  |  |  |
|                            | m,p-Xylenes                       | 80.5 0.402       |  |  |  |  |  |
|                            | o-Xylene                          | 36.6 0.201       |  |  |  |  |  |
|                            | Total Xylenes                     | 117 0.201        |  |  |  |  |  |
|                            | Total BTEX                        | 156 0.201        |  |  |  |  |  |
| <b>Chloride by EPA 300</b> | <b>Extracted:</b>                 | Jul-14-17 15:00  |  |  |  |  |  |
|                            | <b>Analyzed:</b>                  | Jul-14-17 19:35  |  |  |  |  |  |
|                            | <b>Units/RL:</b>                  | mg/kg RL         |  |  |  |  |  |
|                            | Chloride                          | 78.4 4.99        |  |  |  |  |  |
| <b>TPH by SW8015 Mod</b>   | <b>Extracted:</b>                 | Jul-12-17 14:00  |  |  |  |  |  |
|                            | <b>Analyzed:</b>                  | Jul-12-17 16:11  |  |  |  |  |  |
|                            | <b>Units/RL:</b>                  | mg/kg RL         |  |  |  |  |  |
|                            | Gasoline Range Hydrocarbons (GRO) | 5690 74.9        |  |  |  |  |  |
|                            | Diesel Range Organics (DRO)       | 7230 74.9        |  |  |  |  |  |
|                            | Oil Range Hydrocarbons (ORO)      | 311 74.9         |  |  |  |  |  |
|                            | Total TPH                         | 13200 74.9       |  |  |  |  |  |

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

Kelsey Brooks  
Project Manager

# **Analytical Report 556809**

**for  
TRC Solutions, Inc**

**Project Manager: Nikki Green  
Gunslinger 11 Federal Com #001H (03/18/17)**

**18-JUL-17**

Collected By: Client



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

Xenco-Houston (EPA Lab code: TX00122):  
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)  
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)  
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)  
Xenco-San Antonio: Texas (T104704534)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



18-JUL-17

Project Manager: **Nikki Green**

**TRC Solutions, Inc**

2057 Commerce

Midland, TX 79703

Reference: XENCO Report No(s): **556809**

**Gunslinger 11 Federal Com #001H (03/18/17)**

Project Address: Lea Co NM

**Nikki Green:**

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) 556809. 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. 556809 will be filed for 60 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,

**Kelsey Brooks**

Project Manager

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## Sample Cross Reference 556809



**TRC Solutions, Inc, Midland, TX**

Gunslinger 11 Federal Com #001H (03/18/17)

| <b>Sample Id</b> | <b>Matrix</b> | <b>Date Collected</b> | <b>Sample Depth</b> | <b>Lab Sample Id</b> |
|------------------|---------------|-----------------------|---------------------|----------------------|
| West Trench-1 3' | S             | 06-30-17 10:25        |                     | 556809-001           |



## CASE NARRATIVE

**Client Name:** TRC Solutions, Inc

**Project Name:** Gunslinger 11 Federal Com #001H (03/18/17)

Project ID:

Work Order Number(s): 556809

Report Date: 18-JUL-17

Date Received: 07/03/2017

---

### **Sample receipt non conformances and comments:**

---

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

None

### **Analytical non conformances and comments:**

Batch: LBA-3022089 BTEX by EPA 8021B

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

Batch: LBA-3022462 Chloride by EPA 300

Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 556809-001.

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



# Certificate of Analytical Results 556809



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **West Trench-1 3'** Matrix: Soil Date Received: 07.03.17 11.55  
Lab Sample Id: 556809-001 Date Collected: 06.30.17 10.25  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MGO % Moisture:  
Analyst: MGO Date Prep: 07.14.17 15.00 Basis: Wet Weight  
Seq Number: 3022462

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 78.4   | 4.99 | mg/kg | 07.14.17 19.35 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 07.12.17 14.00 Basis: Wet Weight  
Seq Number: 3022138

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 5690       | 74.9  | mg/kg  | 07.12.17 16.11 |      | 5   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 7230       | 74.9  | mg/kg  | 07.12.17 16.11 |      | 5   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 311        | 74.9  | mg/kg  | 07.12.17 16.11 |      | 5   |
| Total TPH                         | PHC635     | 13200      | 74.9  | mg/kg  | 07.12.17 16.11 |      | 5   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 123        | %     | 70-135 | 07.12.17 16.11 |      |     |
| o-Terphenyl                       | 84-15-1    | 118        | %     | 70-135 | 07.12.17 16.11 |      |     |



# Certificate of Analytical Results 556809



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **West Trench-1 3'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556809-001

Date Collected: 06.30.17 10.25

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.12.17 13.00

Basis: Wet Weight

Seq Number: 3022089

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.660</b>      | 0.201        | mg/kg         | 07.12.17 19.39       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>26.5</b>       | 0.201        | mg/kg         | 07.12.17 19.39       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>11.8</b>       | 0.201        | mg/kg         | 07.12.17 19.39       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>80.5</b>       | 0.402        | mg/kg         | 07.12.17 19.39       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>36.6</b>       | 0.201        | mg/kg         | 07.12.17 19.39       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>117</b>        | 0.201        | mg/kg         | 07.12.17 19.39       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>156</b>        | 0.201        | mg/kg         | 07.12.17 19.39       |             | 100 |
| <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        | 07.12.17 19.39       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 87                | %            | 80-120        | 07.12.17 19.39       |             |     |

- 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      **SQL** 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

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| (602) 437-0330 |                |



## QC Summary 556809

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (03/18/17)

**Analytical Method: Chloride by EPA 300**

Seq Number: 3022462

MB Sample Id: 727761-1-BLK

Matrix: Solid

LCS Sample Id: 727761-1-BKS

Prep Method: E300P

Date Prep: 07.14.17

LCSD Sample Id: 727761-1-BSD

| 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          | 262        | 105      | 261         | 104       | 90-110 | 0    | 20        | mg/kg | 07.14.17 16:50 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3022462

Parent Sample Id: 556809-001

Matrix: Soil

MS Sample Id: 556809-001 S

Prep Method: E300P

Date Prep: 07.14.17

MSD Sample Id: 556809-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 78.4          | 250          | 359       | 112     | 358        | 112      | 90-110 | 0    | 20        | mg/kg | 07.14.17 19:42 | X    |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3022462

Parent Sample Id: 557201-001

Matrix: Soil

MS Sample Id: 557201-001 S

Prep Method: E300P

Date Prep: 07.14.17

MSD Sample Id: 557201-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 23.9          | 497          | 542       | 104     | 543        | 104      | 90-110 | 0    | 20        | mg/kg | 07.14.17 17:55 |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3022138

MB Sample Id: 727570-1-BLK

Matrix: Solid

LCS Sample Id: 727570-1-BKS

Prep Method: TX1005P

Date Prep: 07.12.17

LCSD Sample Id: 727570-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0     | 1000         | 960        | 96       | 983         | 98        | 70-135 | 2    | 35        | mg/kg | 07.12.17 14:59 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 948        | 95       | 960         | 96        | 70-135 | 1    | 35        | mg/kg | 07.12.17 14:59 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 121     |         | 114      |          | 109       |           | 70-135 | %     | 07.12.17 14:59 |
| o-Terphenyl    | 127     |         | 112      |          | 108       |           | 70-135 | %     | 07.12.17 14:59 |

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (03/18/17)

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3022138

Parent Sample Id: 557336-001

Matrix: Soil

MS Sample Id: 557336-001 S

Prep Method: TX1005P

Date Prep: 07.12.17

MSD Sample Id: 557336-001 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         | 990       | 99      | 1030       | 103      | 70-135 | 4    | 35        | mg/kg | 07.12.17 17:27 |      |
| Diesel Range Organics (DRO)       | 43.5          | 1000         | 1020      | 98      | 1020       | 98       | 70-135 | 0    | 35        | mg/kg | 07.12.17 17:27 |      |

## Surrogate

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 109     |         | 112      |          | 70-135 | %     | 07.12.17 17:27 |
| o-Terphenyl    | 108     |         | 114      |          | 70-135 | %     | 07.12.17 17:27 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3022089

MB Sample Id: 727538-1-BLK

Matrix: Solid

LCS Sample Id: 727538-1-BKS

Prep Method: SW5030B

Date Prep: 07.12.17

LCSD Sample Id: 727538-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00199  | 0.0994       | 0.115      | 116      | 0.118       | 118       | 70-130 | 3    | 35        | mg/kg | 07.12.17 12:49 |      |
| Toluene      | <0.00199  | 0.0994       | 0.108      | 109      | 0.106       | 106       | 70-130 | 2    | 35        | mg/kg | 07.12.17 12:49 |      |
| Ethylbenzene | <0.00199  | 0.0994       | 0.113      | 114      | 0.117       | 117       | 71-129 | 3    | 35        | mg/kg | 07.12.17 12:49 |      |
| m,p-Xylenes  | <0.00398  | 0.199        | 0.196      | 98       | 0.201       | 101       | 70-135 | 3    | 35        | mg/kg | 07.12.17 12:49 |      |
| o-Xylene     | <0.00199  | 0.0994       | 0.104      | 105      | 0.109       | 109       | 71-133 | 5    | 35        | mg/kg | 07.12.17 12:49 |      |

## Surrogate

|                      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 119     |         | 104      |          | 89        |           | 80-120 | %     | 07.12.17 12:49 |
| 4-Bromofluorobenzene | 113     |         | 109      |          | 102       |           | 80-120 | %     | 07.12.17 12:49 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3022089

Parent Sample Id: 557309-001

Matrix: Soil

MS Sample Id: 557309-001 S

Prep Method: SW5030B

Date Prep: 07.12.17

MSD Sample Id: 557309-001 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       | 0.0936    | 94      | 0.103      | 102      | 70-130 | 10   | 35        | mg/kg | 07.12.17 13:55 |      |
| Toluene      | <0.00199      | 0.0996       | 0.0942    | 95      | 0.0779     | 77       | 70-130 | 19   | 35        | mg/kg | 07.12.17 13:55 |      |
| Ethylbenzene | <0.00199      | 0.0996       | 0.0889    | 89      | 0.0869     | 86       | 71-129 | 2    | 35        | mg/kg | 07.12.17 13:55 |      |
| m,p-Xylenes  | <0.00398      | 0.199        | 0.153     | 77      | 0.146      | 73       | 70-135 | 5    | 35        | mg/kg | 07.12.17 13:55 |      |
| o-Xylene     | <0.00199      | 0.0996       | 0.0863    | 87      | 0.0890     | 88       | 71-133 | 3    | 35        | mg/kg | 07.12.17 13:55 |      |

## Surrogate

|                      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 114     |         | 107      |          | 80-120 | %     | 07.12.17 13:55 |
| 4-Bromofluorobenzene | 119     |         | 120      |          | 80-120 | %     | 07.12.17 13:55 |

***Setting the Standard since 1990***  
Stafford, Texas (281-240-4200)  
Dallas Texas (214-902-0300)

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

[www.xenco.com](http://www.xenco.com)

| Client / Reporting Information                                  |  |                                |  |            |  |                             |  |        |  | Project Information                                                                                                                                                 |  |     |  |                 |  |                |  |       |  | Analytical Information                                                    |  |        |  |      |  |      |  |                  |  | Matrix Codes   |  |  |  |  |  |  |  |  |  |
|-----------------------------------------------------------------|--|--------------------------------|--|------------|--|-----------------------------|--|--------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|--|-----------------|--|----------------|--|-------|--|---------------------------------------------------------------------------|--|--------|--|------|--|------|--|------------------|--|----------------|--|--|--|--|--|--|--|--|--|
| Company Name / Branch:<br>TRC                                   |  |                                |  |            |  |                             |  |        |  | Project Name/Number:<br>Gunslinger 11 Federal Com #001H (3/18/17)                                                                                                   |  |     |  |                 |  |                |  |       |  | Xenoco Job #<br>5546809                                                   |  |        |  |      |  |      |  |                  |  | Xenoco Quote # |  |  |  |  |  |  |  |  |  |
| Company Address:<br>2087 Commerce Drive<br>Midland, Texas 79703 |  |                                |  |            |  |                             |  |        |  | Project Location:<br>Lea County, NM                                                                                                                                 |  |     |  |                 |  |                |  |       |  |                                                                           |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| Email:<br>ngreen@trcsolutions.com                               |  |                                |  |            |  |                             |  |        |  | Invoice To:<br>Rebecca Haskell with COG Operating LLC rhaskell@concho.com<br>600 W Illinois Avenue   Midland, TX 79701<br>Direct: 432-818-2372   Main: 432-883-7443 |  |     |  |                 |  |                |  |       |  |                                                                           |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| Project Contact:<br>Nikki Green                                 |  |                                |  |            |  |                             |  |        |  | PO Number:                                                                                                                                                          |  |     |  |                 |  |                |  |       |  |                                                                           |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| Sample's Name: Nikki Green                                      |  |                                |  |            |  |                             |  |        |  |                                                                                                                                                                     |  |     |  |                 |  |                |  |       |  |                                                                           |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| No.                                                             |  | Field ID / Point of Collection |  | Collection |  | Number of preserved bottles |  |        |  |                                                                                                                                                                     |  |     |  |                 |  | Field Comments |  |       |  |                                                                           |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
|                                                                 |  | Sample Depth                   |  | Date       |  | Time                        |  | Matrix |  | # of bottles                                                                                                                                                        |  | HCl |  | NaOH/Zn Acetate |  | HNO3           |  | H2SO4 |  | NaOH                                                                      |  | NaHSO4 |  | MeOH |  | NONE |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| 1                                                               |  | West Trench-1 3'               |  | 30-Jun     |  | 1025                        |  | S      |  | 1                                                                                                                                                                   |  |     |  |                 |  |                |  |       |  |                                                                           |  |        |  |      |  | X    |  | TPH 8015M EXT 36 |  |                |  |  |  |  |  |  |  |  |  |
| 2                                                               |  |                                |  |            |  |                             |  |        |  |                                                                                                                                                                     |  |     |  |                 |  |                |  |       |  |                                                                           |  |        |  |      |  | X    |  | BTEX 8021B       |  |                |  |  |  |  |  |  |  |  |  |
| 3                                                               |  |                                |  |            |  |                             |  |        |  |                                                                                                                                                                     |  |     |  |                 |  |                |  |       |  |                                                                           |  |        |  |      |  | X    |  | Chloride E300.0  |  |                |  |  |  |  |  |  |  |  |  |
| 4                                                               |  |                                |  |            |  |                             |  |        |  |                                                                                                                                                                     |  |     |  |                 |  |                |  |       |  |                                                                           |  |        |  |      |  | X    |  | HOLD             |  |                |  |  |  |  |  |  |  |  |  |
| 5                                                               |  |                                |  |            |  |                             |  |        |  |                                                                                                                                                                     |  |     |  |                 |  |                |  |       |  |                                                                           |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| 6                                                               |  |                                |  |            |  |                             |  |        |  |                                                                                                                                                                     |  |     |  |                 |  |                |  |       |  |                                                                           |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| 7                                                               |  |                                |  |            |  |                             |  |        |  |                                                                                                                                                                     |  |     |  |                 |  |                |  |       |  |                                                                           |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| 8                                                               |  |                                |  |            |  |                             |  |        |  |                                                                                                                                                                     |  |     |  |                 |  |                |  |       |  |                                                                           |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| 9                                                               |  |                                |  |            |  |                             |  |        |  |                                                                                                                                                                     |  |     |  |                 |  |                |  |       |  |                                                                           |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| 10                                                              |  |                                |  |            |  |                             |  |        |  |                                                                                                                                                                     |  |     |  |                 |  |                |  |       |  |                                                                           |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| Turnaround Time (Business days)                                 |  |                                |  |            |  |                             |  |        |  | Data Deliverable Information                                                                                                                                        |  |     |  |                 |  |                |  |       |  | Notes:                                                                    |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| <input type="checkbox"/> Same Day TAT                           |  |                                |  |            |  |                             |  |        |  | <input checked="" type="checkbox"/> 5 Day TAT                                                                                                                       |  |     |  |                 |  |                |  |       |  | Please hold sample until notified to run TPH, BTEX, and Chloride analysis |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| <input type="checkbox"/> Next Day EMERGENCY                     |  |                                |  |            |  |                             |  |        |  | <input type="checkbox"/> 7 Day TAT                                                                                                                                  |  |     |  |                 |  |                |  |       |  |                                                                           |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| <input type="checkbox"/> 2 Day EMERGENCY                        |  |                                |  |            |  |                             |  |        |  | <input checked="" type="checkbox"/> Contract TAT                                                                                                                    |  |     |  |                 |  |                |  |       |  |                                                                           |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| <input type="checkbox"/> 3 Day EMERGENCY                        |  |                                |  |            |  |                             |  |        |  | <input type="checkbox"/> TRRP Checklist                                                                                                                             |  |     |  |                 |  |                |  |       |  |                                                                           |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| TAT Starts Day received by Lab, if received by 5:00 pm          |  |                                |  |            |  |                             |  |        |  |                                                                                                                                                                     |  |     |  |                 |  |                |  |       |  | FED-EX / UPS: Tracking #                                                  |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| Relinquished by Sampler:                                        |  |                                |  |            |  |                             |  |        |  | Date Time: 7/3/17 11:55                                                                                                                                             |  |     |  |                 |  |                |  |       |  | Received By: [Signature]                                                  |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| Relinquished by:                                                |  |                                |  |            |  |                             |  |        |  | Date Time:                                                                                                                                                          |  |     |  |                 |  |                |  |       |  | Received By:                                                              |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| 3                                                               |  |                                |  |            |  |                             |  |        |  | Date Time:                                                                                                                                                          |  |     |  |                 |  |                |  |       |  | Received By:                                                              |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| Relinquished by:                                                |  |                                |  |            |  |                             |  |        |  | Date Time:                                                                                                                                                          |  |     |  |                 |  |                |  |       |  | Received By:                                                              |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |
| 5                                                               |  |                                |  |            |  |                             |  |        |  | Date Time:                                                                                                                                                          |  |     |  |                 |  |                |  |       |  | Received By:                                                              |  |        |  |      |  |      |  |                  |  |                |  |  |  |  |  |  |  |  |  |



**XENCO Laboratories**  
**Prelogin/Nonconformance Report- Sample Log-In**



**Client:** TRC Solutions, Inc

**Date/ Time Received:** 07/03/2017 11:55:00 AM

**Work Order #:** 556809

**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)?                              | 4.9      |
| #2 *Shipping container in good condition?                  | Yes      |
| #3 *Samples received on ice?                               | Yes      |
| #4 *Custody Seal present on shipping container/ cooler?    | N/A      |
| #5 *Custody Seals intact on shipping container/ cooler?    | N/A      |
| #6 Custody Seals intact on sample bottles?                 | N/A      |
| #7 *Custody Seals Signed and dated?                        | N/A      |
| #8 *Chain of Custody present?                              | Yes      |
| #9 Sample instructions complete on Chain of Custody?       | Yes      |
| #10 Any missing/extra samples?                             | No       |
| #11 Chain of Custody signed when relinquished/ received?   | Yes      |
| #12 Chain of Custody agrees with sample label(s)?          | Yes      |
| #13 Container label(s) legible and intact?                 | Yes      |
| #14 Sample matrix/ properties agree with Chain of Custody? | Yes      |
| #15 Samples in proper container/ bottle?                   | Yes      |
| #16 Samples properly preserved?                            | Yes      |
| #17 Sample container(s) intact?                            | Yes      |
| #18 Sufficient sample amount for indicated test(s)?        | Yes      |
| #19 All samples received within hold time?                 | Yes      |
| #20 Subcontract of sample(s)?                              | N/A      |
| #21 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: Jessica Kramer  
Jessica Kramer

Date: 07/03/2017

Checklist reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

|                                                     |                             |                      |
|-----------------------------------------------------|-----------------------------|----------------------|
| Name of Company: COG Operating LLC OGRID # 229137   | Contact: Robert McNeill     |                      |
| Address: 600 West Illinois Avenue, Midland TX 79701 | Telephone No. 432-683-7443  |                      |
| Facility Name: Gunslinger 11 Federal Com #001       | Facility Type: Tank Battery |                      |
| Surface Owner: Federal                              | Mineral Owner:              | API No. 30-025-36797 |

**LOCATION OF RELEASE**

|                  |               |                 |              |                      |                           |                      |                        |               |
|------------------|---------------|-----------------|--------------|----------------------|---------------------------|----------------------|------------------------|---------------|
| Unit Letter<br>M | Section<br>11 | Township<br>20S | Range<br>33E | Feet from the<br>810 | North/South Line<br>South | Feet from the<br>660 | East/West Line<br>West | County<br>Lea |
|------------------|---------------|-----------------|--------------|----------------------|---------------------------|----------------------|------------------------|---------------|

Latitude 32.582877 Longitude -103.640467

**NATURE OF RELEASE**

|                                                                                                                                          |                                                        |                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|
| Type of Release:<br>Oil and Produced Water                                                                                               | Volume of Release:<br>25 bbls Oil & 15 bbls PW         | Volume Recovered:<br>20 bbls Oil & 10 bbls PW         |
| Source of Release:<br>Heater Treater                                                                                                     | Date and Hour of Occurrence:<br>March 18, 2017 9:30 am | Date and Hour of Discovery:<br>March 18, 2017 9:30 am |
| Was Immediate Notice Given?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?                                       |                                                       |
| By Whom?                                                                                                                                 | Date and Hour:                                         |                                                       |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                        | If YES, Volume Impacting the Watercourse.              |                                                       |
| If a Watercourse was Impacted, Describe Fully.*                                                                                          |                                                        |                                                       |

**RECEIVED**

By Olivia Yu at 3:56 pm, Mar 22, 2017

Describe Cause of Problem and Remedial Action Taken.\*

The release was caused by pressure valve failure on a heater treater, causing fluids to be released through the relief valve. The pressure valve was replaced.

Describe Area Affected and Cleanup Action Taken.\*

The release was within and unlined facility with overspray on the adjacent pasture. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

|                                          |                                       |                                              |
|------------------------------------------|---------------------------------------|----------------------------------------------|
| Signature: Rebecca Haskell               | <b>OIL CONSERVATION DIVISION</b>      |                                              |
| Printed Name: Rebecca Haskell            | Approved by Environmental Specialist: |                                              |
| Title: Senior HSE Coordinator            | Approval Date: 3/22/2017              | Expiration Date:                             |
| E-mail Address: rhaskell@concho.com      | Conditions of Approval:               | Attached <input checked="" type="checkbox"/> |
| Date: March 21, 2017 Phone: 432-683-7443 | see attached directive                |                                              |

\* Attach Additional Sheets If Necessary

1RP-4651

nOY1708157566

pOY1708157871

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 3/21/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1R-4651 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

*The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]*

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 4/22/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

**Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.**

**Jim Griswold**

OCD Environmental Bureau Chief  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505  
505-476-3465  
jim.griswold@state.nm.us