


| Table 910-1                                      |                        |  |                         |                            |
|--|------------------------|---|-------------------------|----------------------------|
| CONCENTRATION LEVELS                             |                        | sampled 4/24/17   |                         |                            |
| Contaminant of Concern                           | Concentrations         | Units   | HORNET 44-25 TOP OF PIT | HORNET 44-25 BOTTOM OF PIT |
| Organic Compounds in Soil                        |                        |   |                         |                            |
| TPH (Gasoline Range Organics)                    | 500                    | mg/kg   |                         | ND                         |
| TPH (Diesel Range Organics)                      |                        | mg/kg   |                         | 80                         |
| Benzene  | 0.17                   | mg/kg   |                         | ND                         |
| Toluene  | 85                     | mg/kg   |                         | ND                         |
| Ethylbenzene                                     | 100                    | mg/kg   |                         | ND                         |
| Xylenes (total)                                  | 175                    | mg/kg   |                         | ND                         |
| Acenaphthene                                     | 1000                   | mg/kg   |                         |                            |
| Anthracene                                       | 1000                   | mg/kg   |                         |                            |
| Benzo(A)anthracene                               | 0.22                   | mg/kg   |                         |                            |
| Benzo(B)fluoranthene                             | 0.22                   | mg/kg   |                         |                            |
| Benzo(K)fluoranthene                             | 2.2                    | mg/kg   |                         |                            |
| Benzo(A)pyrene                                   | 0.022                  | mg/kg   |                         |                            |
| Chrysene   | 22                     | mg/kg   |                         |                            |
| Dibenzo(A,H)anthracene                           | 0.022                  | mg/kg   |                         |                            |
| Fluoranthene                                     | 1000                   | mg/kg   |                         |                            |
| Fluorene   | 1000                   | mg/kg   |                         |                            |
| Indeno(1,2,3,C,D)pyrene                          | 0.22                   | mg/kg   |                         |                            |
| Napthalene                                       | 23                     | mg/kg   |                         |                            |
| Pyrene   | 1000                   | mg/kg   |                         |                            |
| Organic Compounds in Ground Water                |                        |   |                         |                            |
| Benzene  | 5                      | µg/l  |                         |                            |
| Toluene  | 560 to 1000            | µg/l  |                         |                            |
| Ethylbenzene                                     | 700                    | µg/l  |                         |                            |
| Xylenes (total)                                  | 1400 to 10,000         | µg/l  |                         |                            |
| Inorganics in Soils                              |                        |   |                         |                            |
| Electrical Conductivity (EC)                     | <4000 or 2x background | umhos/cm  | 410                     | 1700                       |
| Sodium Adsorption Ratio (SAR)                    | <12                    | NA  | 4.4                     | 12                         |
| pH   | 6.0-9.0                | NA  | 8.2                     | 8.6                        |
| Inorganics in Ground Water                       |                        |   |                         |                            |
| Total Dissolved Solids (TDS)                     | <1.25 x background     | NA  |                         |                            |
| Chlorides  | <1.25 x background     | NA  |                         |                            |
| Sulfates   | <1.25 x background     | NA  |                         |                            |
| Metals in Soils                                  |                        |   |                         |                            |
| Arsenic  | 0.39                   | mg/kg   |                         | NA                         |
| Barium Total                                     | 15,000                 | mg/kg   |                         | 680                        |
| Boron  | NA                     | mg/kg   |                         | ND                         |
| Boron (Hot Water Soluble)                        | 2                      | mg/L  |                         | NT                         |
| Cadmium  | 70                     | mg/kg   |                         | ND                         |
| Chromium (III)                                   | 120,000                | mg/kg   |                         | 30                         |
| Chromium (VI)                                    | 23                     | mg/kg   |                         | ND                         |
| Copper   | 3,100                  | mg/kg   |                         | 49                         |
| Lead   | 400                    | mg/kg   |                         | 12                         |
| Mercury  | 23                     | mg/kg   |                         | 0.086                      |
| Nickel   | 1,600                  | mg/kg   |                         | 28                         |
| Selenium   | 390                    | mg/kg   |                         | 0.52                       |
| Silver   | 390                    | mg/kg   |                         | ND                         |
| Zinc   | 23,000                 | mg/kg   |                         | 99                         |
| Chromium   |                        | mg/kg   |                         | 30                         |
| Liquid Hydrocarbons in Soils and Ground Water    |                        |   |                         |                            |
| Liquid hydrocarbons including condensate and oil | Below detection level  | NA  |                         |                            |

NA - not applicable

NT - not tested

ND - below the method detection limit

Cr - if Total Cr is >23 mg/kg, an analysis is completed for Cr VI, to facilitate calculation of Cr III

# Client Sample Results

Client: Pioneer Natural Resources USA, Inc.  
Project/Site: Soil Testing Suite

TestAmerica Job ID: 280-96407-1

**Client Sample ID: HORNET 44-25 TOP OF PIT**

**Lab Sample ID: 280-96407-1**

**Date Collected: 04/24/17 09:56**

**Matrix: Solid**

**Date Received: 04/27/17 08:55**

## Method: 20B - Sodium Adsorption Ratio - Soluble

| Analyte                 | Result | Qualifier | RL  | RL | Unit    | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|-----|----|---------|---|----------------|----------------|---------|
| Sodium Adsorption Ratio | 4.4    |           | 1.2 |    | No Unit |   | 05/03/17 18:26 | 05/05/17 05:46 | 10      |
| Sodium                  | 89     |           | 10  |    | mg/Kg   |   | 05/03/17 18:26 | 05/05/17 05:46 | 10      |
| Calcium                 | 25     |           | 2.0 |    | mg/Kg   |   | 05/03/17 18:26 | 05/05/17 05:46 | 10      |
| Magnesium               | 3.5    |           | 2.0 |    | mg/Kg   |   | 05/03/17 18:26 | 05/05/17 05:46 | 10      |

## General Chemistry

| Analyte          | Result | Qualifier | RL  | RL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----|----|------|---|----------|----------------|---------|
| Percent Moisture | 7.1    |           | 0.1 |    | %    |   |          | 05/01/17 11:43 | 1       |

## General Chemistry - Soluble

| Analyte                    | Result | Qualifier | RL  | RL | Unit     | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|-----|----|----------|---|----------------|----------------|---------|
| pH                         | 8.2    |           | 0.1 |    | SU       |   | 05/04/17 10:53 | 05/04/17 11:22 | 1       |
| Specific Conductance (25C) | 410    |           | 10  |    | umhos/cm |   | 05/04/17 10:53 | 05/08/17 11:50 | 1       |

# Client Sample Results

Client: Pioneer Natural Resources USA, Inc.  
Project/Site: Soil Testing Suite

TestAmerica Job ID: 280-96407-1

**Client Sample ID: HORNET 44-25 BOTTOM OF PIT**

**Lab Sample ID: 280-96407-2**

**Date Collected: 04/24/17 10:00**

**Matrix: Solid**

**Date Received: 04/27/17 08:55**

**Percent Solids: 78.4**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte        | Result | Qualifier | RL     | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Benzene        | ND     |           | 0.0064 |     | mg/Kg | ☼ | 05/04/17 15:00 | 05/04/17 18:57 | 1       |
| Ethylbenzene   | ND     |           | 0.0064 |     | mg/Kg | ☼ | 05/04/17 15:00 | 05/04/17 18:57 | 1       |
| Toluene        | ND     |           | 0.0064 |     | mg/Kg | ☼ | 05/04/17 15:00 | 05/04/17 18:57 | 1       |
| Xylenes, Total | ND     |           | 0.0064 |     | mg/Kg | ☼ | 05/04/17 15:00 | 05/04/17 18:57 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 91        |           | 58 - 140 | 05/04/17 15:00 | 05/04/17 18:57 | 1       |
| Toluene-d8 (Surr)            | 104       |           | 80 - 126 | 05/04/17 15:00 | 05/04/17 18:57 | 1       |
| 4-Bromofluorobenzene (Surr)  | 113       |           | 76 - 127 | 05/04/17 15:00 | 05/04/17 18:57 | 1       |
| Dibromofluoromethane (Surr)  | 95        |           | 75 - 121 | 05/04/17 15:00 | 05/04/17 18:57 | 1       |

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte                                  | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)<br>-C6-C10 | ND     |           | 1.5 |     | mg/Kg | ☼ | 05/01/17 16:13 | 05/02/17 11:36 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| a,a,a-Trifluorotoluene | 83        |           | 77 - 123 | 05/01/17 16:13 | 05/02/17 11:36 | 1       |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte                         | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 80     |           | 5.0 |     | mg/Kg | ☼ | 05/08/17 06:45 | 05/12/17 19:20 | 1       |

| Surrogate   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| o-Terphenyl | 100       |           | 49 - 115 | 05/08/17 06:45 | 05/12/17 19:20 | 1       |

## Method: 20B - Sodium Adsorption Ratio - Soluble

| Analyte                 | Result | Qualifier | RL  | RL | Unit    | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|-----|----|---------|---|----------------|----------------|---------|
| Sodium Adsorption Ratio | 12     |           | 1.2 |    | No Unit |   | 05/03/17 18:26 | 05/05/17 05:49 | 10      |

## Method: 6010B - Total Metals

| Analyte    | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Barium     | 680    |           | 0.96 |     | mg/Kg | ☼ | 04/28/17 14:30 | 05/02/17 05:09 | 1       |
| Boron      | ND     |           | 9.6  |     | mg/Kg | ☼ | 04/28/17 14:30 | 05/02/17 05:09 | 1       |
| Cadmium    | ND     |           | 0.48 |     | mg/Kg | ☼ | 04/28/17 14:30 | 05/02/17 05:09 | 1       |
| Calcium    | 14000  |           | 48   |     | mg/Kg | ☼ | 04/28/17 14:30 | 05/02/17 05:09 | 1       |
| Magnesium  | 3000   |           | 19   |     | mg/Kg | ☼ | 04/28/17 14:30 | 05/02/17 05:09 | 1       |
| Molybdenum | ND     |           | 1.9  |     | mg/Kg | ☼ | 04/28/17 14:30 | 05/02/17 05:09 | 1       |
| Silver     | ND     |           | 0.96 |     | mg/Kg | ☼ | 04/28/17 14:30 | 05/02/17 05:09 | 1       |
| Sodium     | 2300   |           | 480  |     | mg/Kg | ☼ | 04/28/17 14:30 | 05/02/17 13:32 | 1       |

## Method: 6020 - Total Metals by ICP-MS

| Analyte  | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Chromium | 30     |           | 0.17  |     | mg/Kg | ☼ | 04/27/17 20:48 | 04/29/17 02:30 | 1       |
| Copper   | 49     | F1        | 0.22  |     | mg/Kg | ☼ | 04/27/17 20:48 | 04/29/17 02:30 | 1       |
| Lead     | 12     |           | 0.087 |     | mg/Kg | ☼ | 04/27/17 20:48 | 04/29/17 02:30 | 1       |
| Nickel   | 28     |           | 0.13  |     | mg/Kg | ☼ | 04/27/17 20:48 | 04/29/17 02:30 | 1       |
| Selenium | 0.52   |           | 0.17  |     | mg/Kg | ☼ | 04/27/17 20:48 | 04/29/17 02:30 | 1       |
| Zinc     | 99     |           | 0.87  |     | mg/Kg | ☼ | 04/27/17 20:48 | 04/29/17 02:30 | 1       |

TestAmerica Denver

# Client Sample Results

Client: Pioneer Natural Resources USA, Inc.  
Project/Site: Soil Testing Suite

TestAmerica Job ID: 280-96407-1

**Client Sample ID: HORNET 44-25 BOTTOM OF PIT**

**Lab Sample ID: 280-96407-2**

Date Collected: 04/24/17 10:00

Matrix: Solid

Date Received: 04/27/17 08:55

Percent Solids: 78.4

## Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Mercury | 0.086  |           | 0.022 |     | mg/Kg | ☼ | 05/12/17 12:24 | 05/12/17 23:00 | 1       |

## General Chemistry

| Analyte | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Cr (VI) | ND     |           | 0.51 |     | mg/Kg | ☼ | 05/08/17 07:50 | 05/10/17 13:08 | 1       |

| Analyte          | Result | Qualifier | RL  | RL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----|----|-------|---|----------|----------------|---------|
| Cr (III)         | 30     |           | 2.0 |    | mg/Kg | — |          | 05/11/17 15:38 | 1       |
| Percent Moisture | 21.6   |           | 0.1 |    | %     |   |          | 05/01/17 11:43 | 1       |

## General Chemistry - Soluble

| Analyte                    | Result | Qualifier | RL  | RL | Unit     | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|-----|----|----------|---|----------------|----------------|---------|
| pH                         | 8.6    |           | 0.1 |    | SU       | — | 05/04/17 10:53 | 05/04/17 11:22 | 1       |
| Specific Conductance (25C) | 1700   |           | 10  |    | umhos/cm |   | 05/04/17 10:53 | 05/08/17 11:50 | 1       |