

## Analytical Report

### Report Summary

Client: WPX (Carlsbad)

Samples Received: 6/12/2019

Job Number: 04108-0369

Work Order: P906044

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:



Date: 6/18/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.  
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.  
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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

### Analytical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| SP41             | P906044-01A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP42             | P906044-02A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP43             | P906044-03A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP44             | P906044-04A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP45             | P906044-05A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP46             | P906044-06A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP47             | P906044-07A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP48             | P906044-08A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP49             | P906044-09A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP50             | P906044-10A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP51             | P906044-11A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP52             | P906044-12A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP53             | P906044-13A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP54             | P906044-14A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP55             | P906044-15A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP56             | P906044-16A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP57             | P906044-17A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP58             | P906044-18A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP59             | P906044-19A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP60             | P906044-20A   | Soil   | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP41**  
**P906044-01 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                         |    |        |       |        |         |          |          |           |  |
|-----------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                                 | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                                 | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                            | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                              | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                                | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                           | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> |    | 97.7 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| <i>Surrogate: Toluene-d8</i>            |    | 100 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| <i>Surrogate: Bromofluorobenzene</i>    |    | 98.8 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |        |       |        |         |          |          |           |  |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| <i>Surrogate: n-Nonane</i>      |    | 98.2 % |       | 50-200 | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                         |    |        |       |        |         |          |          |           |  |
|-----------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10)        | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> |    | 97.7 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| <i>Surrogate: Toluene-d8</i>            |    | 100 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| <i>Surrogate: Bromofluorobenzene</i>    |    | 98.8 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |             |      |       |   |         |          |          |                    |  |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | <b>1210</b> | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA<br>300.0/9056A |  |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP42**  
**P906044-02 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                     | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                       | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                         | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                    | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 97.7 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Toluene-d8            |    | 99.9 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Bromofluorobenzene    |    | 96.5 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |        |       |        |         |          |          |           |  |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: n-Nonane             |    | 97.2 % |       | 50-200 | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 97.7 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Toluene-d8            |    | 99.9 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Bromofluorobenzene    |    | 96.5 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |      |      |       |   |         |          |          |                 |  |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 1260 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA 300.0/9056A |  |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP43**  
**P906044-03 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                     | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                       | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                         | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                    | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 98.1 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Toluene-d8            |    | 99.1 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Bromofluorobenzene    |    | 97.8 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |        |       |        |         |          |          |           |  |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: n-Nonane             |    | 98.4 % |       | 50-200 | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 98.1 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Toluene-d8            |    | 99.1 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Bromofluorobenzene    |    | 97.8 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |     |      |       |   |         |          |          |                    |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 175 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA<br>300.0/9056A |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP44**  
**P906044-04 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                     | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                       | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                         | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                    | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 99.6 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Toluene-d8            |    | 101 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Bromofluorobenzene    |    | 95.9 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |       |       |        |         |          |          |           |  |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0  | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0  | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: n-Nonane             |    | 100 % |       | 50-200 | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 99.6 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Toluene-d8            |    | 101 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Bromofluorobenzene    |    | 95.9 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |     |      |       |   |         |          |          |                    |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 451 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA<br>300.0/9056A |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP45**  
**P906044-05 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                     | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                       | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                         | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                    | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 101 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Toluene-d8            |    | 98.5 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Bromofluorobenzene    |    | 97.2 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |        |       |        |         |          |          |           |  |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: n-Nonane             |    | 96.3 % |       | 50-200 | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 101 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Toluene-d8            |    | 98.5 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Bromofluorobenzene    |    | 97.2 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |    |      |       |   |         |          |          |                 |  |
|----------|----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | ND | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA 300.0/9056A |  |
|----------|----|------|-------|---|---------|----------|----------|-----------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP46**  
**P906044-06 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                     | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                       | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                         | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                    | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 102 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Toluene-d8            |    | 99.2 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Bromofluorobenzene    |    | 96.5 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |        |       |        |         |          |          |           |  |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: n-Nonane             |    | 97.5 % |       | 50-200 | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 102 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Toluene-d8            |    | 99.2 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Bromofluorobenzene    |    | 96.5 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |     |      |       |   |         |          |          |                 |  |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 185 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA 300.0/9056A |  |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP47**  
**P906044-07 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                     | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                       | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                         | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                    | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 101 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Toluene-d8            |    | 99.6 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Bromofluorobenzene    |    | 96.8 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |        |       |        |         |          |          |           |  |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: n-Nonane             |    | 95.0 % |       | 50-200 | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 101 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Toluene-d8            |    | 99.6 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Bromofluorobenzene    |    | 96.8 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |     |      |       |   |         |          |          |                    |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 232 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA<br>300.0/9056A |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP48**  
**P906044-08 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                     | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                       | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                         | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                    | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 102 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Toluene-d8            |    | 98.3 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Bromofluorobenzene    |    | 97.1 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |        |       |        |         |          |          |           |  |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: n-Nonane             |    | 98.0 % |       | 50-200 | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 102 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Toluene-d8            |    | 98.3 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Bromofluorobenzene    |    | 97.1 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |     |      |       |   |         |          |          |                 |  |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 294 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA 300.0/9056A |  |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP49**  
**P906044-09 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                         |    |        |       |        |         |          |          |           |  |
|-----------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                                 | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                                 | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                            | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                              | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                                | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                           | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> |    | 103 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| <i>Surrogate: Toluene-d8</i>            |    | 98.9 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| <i>Surrogate: Bromofluorobenzene</i>    |    | 96.5 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |       |       |        |         |          |          |           |  |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0  | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0  | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| <i>Surrogate: n-Nonane</i>      |    | 102 % |       | 50-200 | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                         |    |        |       |        |         |          |          |           |  |
|-----------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10)        | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> |    | 103 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| <i>Surrogate: Toluene-d8</i>            |    | 98.9 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| <i>Surrogate: Bromofluorobenzene</i>    |    | 96.5 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |     |      |       |   |         |          |          |                    |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 186 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA<br>300.0/9056A |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP50**  
**P906044-10 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                     | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                       | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                         | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                    | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 97.9 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Toluene-d8            |    | 99.9 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Bromofluorobenzene    |    | 96.0 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |        |       |        |         |          |          |           |  |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: n-Nonane             |    | 99.0 % |       | 50-200 | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 97.9 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Toluene-d8            |    | 99.9 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Bromofluorobenzene    |    | 96.0 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |     |      |       |   |         |          |          |                    |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 229 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA<br>300.0/9056A |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP51**  
**P906044-11 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                     | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                       | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                         | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                    | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 101 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Toluene-d8            |    | 99.4 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Bromofluorobenzene    |    | 95.8 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |        |       |        |         |          |          |           |  |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: n-Nonane             |    | 99.1 % |       | 50-200 | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 101 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Toluene-d8            |    | 99.4 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Bromofluorobenzene    |    | 95.8 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |     |      |       |   |         |          |          |                    |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 794 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA<br>300.0/9056A |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP52**  
**P906044-12 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                         |    |        |       |        |         |          |          |           |  |
|-----------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                                 | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                                 | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                            | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                              | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                                | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                           | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> |    | 98.5 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| <i>Surrogate: Toluene-d8</i>            |    | 98.3 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| <i>Surrogate: Bromofluorobenzene</i>    |    | 95.4 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |        |       |        |         |          |          |           |  |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| <i>Surrogate: n-Nonane</i>      |    | 99.8 % |       | 50-200 | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                         |    |        |       |        |         |          |          |           |  |
|-----------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10)        | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> |    | 98.5 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| <i>Surrogate: Toluene-d8</i>            |    | 98.3 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| <i>Surrogate: Bromofluorobenzene</i>    |    | 95.4 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |     |      |       |   |         |          |          |                    |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 105 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA<br>300.0/9056A |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP53**  
**P906044-13 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                     | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                       | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                         | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                    | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 99.7 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Toluene-d8            |    | 97.7 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Bromofluorobenzene    |    | 96.3 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |        |       |        |         |          |          |           |  |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: n-Nonane             |    | 97.9 % |       | 50-200 | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 99.7 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Toluene-d8            |    | 97.7 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Bromofluorobenzene    |    | 96.3 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |      |      |       |   |         |          |          |                    |  |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 62.4 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA<br>300.0/9056A |  |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP54**  
**P906044-14 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                     | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                       | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                         | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                    | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 99.0 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Toluene-d8            |    | 101 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Bromofluorobenzene    |    | 97.0 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |        |       |        |         |          |          |           |  |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: n-Nonane             |    | 97.1 % |       | 50-200 | 1924027 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 99.0 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Toluene-d8            |    | 101 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Bromofluorobenzene    |    | 97.0 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |     |      |       |   |         |          |          |                    |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 314 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA<br>300.0/9056A |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP55**  
**P906044-15 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                     | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                       | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                         | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                    | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 100 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Toluene-d8            |    | 98.6 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Bromofluorobenzene    |    | 96.4 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |        |       |        |         |          |          |           |  |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |
| Surrogate: n-Nonane             |    | 97.2 % |       | 50-200 | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 100 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Toluene-d8            |    | 98.6 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Bromofluorobenzene    |    | 96.4 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |             |      |       |   |         |          |          |                    |  |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | <b>1070</b> | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA<br>300.0/9056A |  |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP56**  
**P906044-16 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                     | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                       | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                         | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                    | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 99.7 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Toluene-d8            |    | 98.9 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Bromofluorobenzene    |    | 95.8 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |        |       |        |         |          |          |           |  |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |
| Surrogate: n-Nonane             |    | 96.2 % |       | 50-200 | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 99.7 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Toluene-d8            |    | 98.9 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Bromofluorobenzene    |    | 95.8 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |     |      |       |   |         |          |          |                 |  |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 299 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA 300.0/9056A |  |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP57**  
**P906044-17 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                     | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                       | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                         | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                    | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 99.5 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Toluene-d8            |    | 98.1 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Bromofluorobenzene    |    | 95.1 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |        |       |        |         |          |          |           |  |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |
| Surrogate: n-Nonane             |    | 96.7 % |       | 50-200 | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 99.5 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Toluene-d8            |    | 98.1 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Bromofluorobenzene    |    | 95.1 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |     |      |       |   |         |          |          |                 |  |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 941 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA 300.0/9056A |  |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP58**  
**P906044-18 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                     | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                       | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                         | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                    | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 103 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Toluene-d8            |    | 98.6 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Bromofluorobenzene    |    | 96.8 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |        |       |        |         |          |          |           |  |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |
| Surrogate: n-Nonane             |    | 96.8 % |       | 50-200 | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 103 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Toluene-d8            |    | 98.6 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Bromofluorobenzene    |    | 96.8 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |     |      |       |   |         |          |          |                 |  |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 251 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA 300.0/9056A |  |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP59**  
**P906044-19 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                     | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                       | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                         | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                    | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 101 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Toluene-d8            |    | 97.9 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Bromofluorobenzene    |    | 96.2 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |        |       |        |         |          |          |           |  |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0   | mg/kg | 1      | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |
| Surrogate: n-Nonane             |    | 97.9 % |       | 50-200 | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 101 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Toluene-d8            |    | 97.9 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Bromofluorobenzene    |    | 96.2 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |     |      |       |   |         |          |          |                    |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 243 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA<br>300.0/9056A |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**SP60**  
**P906044-20 (Solid)**

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

**Volatile Organic Compounds by 8260**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Toluene                          | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Ethylbenzene                     | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| p,m-Xylene                       | ND | 0.0500 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| o-Xylene                         | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Total Xylenes                    | ND | 0.0250 | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 98.9 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Toluene-d8            |    | 101 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |
| Surrogate: Bromofluorobenzene    |    | 96.4 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B |  |

**Nonhalogenated Organics by 8015 - DRO/ORO**

|                                 |    |       |       |        |         |          |          |           |  |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0  | mg/kg | 1      | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)    | ND | 50.0  | mg/kg | 1      | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |
| Surrogate: n-Nonane             |    | 100 % |       | 50-200 | 1924027 | 06/12/19 | 06/15/19 | EPA 8015D |  |

**Nonhalogenated Organics by 8015 - GRO**

|                                  |    |        |       |        |         |          |          |           |  |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0   | mg/kg | 1      | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: 1,2-Dichloroethane-d4 |    | 98.9 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Toluene-d8            |    | 101 %  |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |
| Surrogate: Bromofluorobenzene    |    | 96.4 % |       | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |             |      |       |   |         |          |          |                    |  |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | <b>1590</b> | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA<br>300.0/9056A |  |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|

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WPX (Carlsbad)  
5315 Buena Vista Dr  
Carlsbad NM, 88220

Project Name: Ross Draw Unit #57  
Project Number: 04108-0369  
Project Manager: Kris Rowe

**Reported:**  
06/18/19 13:28

### Volatile Organic Compounds by 8260 - Quality Control

#### Envirotech Analytical Laboratory

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

#### Batch 1924024 - Purge and Trap EPA 5030A

##### Blank (1924024-BLK1)

Prepared: 06/12/19 1 Analyzed: 06/14/19 0

|                                  |       |        |       |       |  |      |        |  |  |  |
|----------------------------------|-------|--------|-------|-------|--|------|--------|--|--|--|
| Benzene                          | ND    | 0.0250 | mg/kg |       |  |      |        |  |  |  |
| Toluene                          | ND    | 0.0250 | "     |       |  |      |        |  |  |  |
| Ethylbenzene                     | ND    | 0.0250 | "     |       |  |      |        |  |  |  |
| p,m-Xylene                       | ND    | 0.0500 | "     |       |  |      |        |  |  |  |
| o-Xylene                         | ND    | 0.0250 | "     |       |  |      |        |  |  |  |
| Total Xylenes                    | ND    | 0.0250 | "     |       |  |      |        |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.517 |        | "     | 0.500 |  | 103  | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.490 |        | "     | 0.500 |  | 98.0 | 70-130 |  |  |  |
| Surrogate: Bromofluorobenzene    | 0.490 |        | "     | 0.500 |  | 97.9 | 70-130 |  |  |  |

##### LCS (1924024-BS1)

Prepared: 06/12/19 1 Analyzed: 06/13/19 2

|                                  |       |        |       |       |  |      |        |  |  |  |
|----------------------------------|-------|--------|-------|-------|--|------|--------|--|--|--|
| Benzene                          | 2.51  | 0.0250 | mg/kg | 2.50  |  | 100  | 70-130 |  |  |  |
| Toluene                          | 2.55  | 0.0250 | "     | 2.50  |  | 102  | 70-130 |  |  |  |
| Ethylbenzene                     | 2.51  | 0.0250 | "     | 2.50  |  | 100  | 70-130 |  |  |  |
| p,m-Xylene                       | 4.94  | 0.0500 | "     | 5.00  |  | 98.8 | 70-130 |  |  |  |
| o-Xylene                         | 2.47  | 0.0250 | "     | 2.50  |  | 98.6 | 70-130 |  |  |  |
| Total Xylenes                    | 7.40  | 0.0250 | "     | 7.50  |  | 98.7 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.490 |        | "     | 0.500 |  | 98.0 | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.498 |        | "     | 0.500 |  | 99.6 | 70-130 |  |  |  |
| Surrogate: Bromofluorobenzene    | 0.490 |        | "     | 0.500 |  | 98.0 | 70-130 |  |  |  |

##### Matrix Spike (1924024-MS1)

Source: P906044-01

Prepared: 06/12/19 1 Analyzed: 06/14/19 0

|                                  |       |        |       |       |    |      |        |  |  |  |
|----------------------------------|-------|--------|-------|-------|----|------|--------|--|--|--|
| Benzene                          | 2.54  | 0.0250 | mg/kg | 2.50  | ND | 102  | 48-131 |  |  |  |
| Toluene                          | 2.57  | 0.0250 | "     | 2.50  | ND | 103  | 48-130 |  |  |  |
| Ethylbenzene                     | 2.52  | 0.0250 | "     | 2.50  | ND | 101  | 45-135 |  |  |  |
| p,m-Xylene                       | 4.98  | 0.0500 | "     | 5.00  | ND | 99.5 | 43-135 |  |  |  |
| o-Xylene                         | 2.49  | 0.0250 | "     | 2.50  | ND | 99.7 | 43-135 |  |  |  |
| Total Xylenes                    | 7.47  | 0.0250 | "     | 7.50  | ND | 99.6 | 43-135 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.516 |        | "     | 0.500 |    | 103  | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.498 |        | "     | 0.500 |    | 99.6 | 70-130 |  |  |  |
| Surrogate: Bromofluorobenzene    | 0.494 |        | "     | 0.500 |    | 98.8 | 70-130 |  |  |  |

##### Matrix Spike Dup (1924024-MSD1)

Source: P906044-01

Prepared: 06/12/19 1 Analyzed: 06/14/19 0

|                                  |       |        |       |       |    |      |        |      |    |  |
|----------------------------------|-------|--------|-------|-------|----|------|--------|------|----|--|
| Benzene                          | 2.50  | 0.0250 | mg/kg | 2.50  | ND | 100  | 48-131 | 1.63 | 23 |  |
| Toluene                          | 2.60  | 0.0250 | "     | 2.50  | ND | 104  | 48-130 | 1.14 | 24 |  |
| Ethylbenzene                     | 2.57  | 0.0250 | "     | 2.50  | ND | 103  | 45-135 | 1.83 | 27 |  |
| p,m-Xylene                       | 5.07  | 0.0500 | "     | 5.00  | ND | 101  | 43-135 | 1.80 | 27 |  |
| o-Xylene                         | 2.53  | 0.0250 | "     | 2.50  | ND | 101  | 43-135 | 1.61 | 27 |  |
| Total Xylenes                    | 7.60  | 0.0250 | "     | 7.50  | ND | 101  | 43-135 | 1.74 | 27 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.511 |        | "     | 0.500 |    | 102  | 70-130 |      |    |  |
| Surrogate: Toluene-d8            | 0.501 |        | "     | 0.500 |    | 100  | 70-130 |      |    |  |
| Surrogate: Bromofluorobenzene    | 0.495 |        | "     | 0.500 |    | 99.0 | 70-130 |      |    |  |

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control**
**Envirotech Analytical Laboratory**

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

**Batch 1924027 - DRO Extraction EPA 3570**
**Blank (1924027-BLK1)**

Prepared: 06/12/19 1 Analyzed: 06/17/19 1

|                                 |      |      |       |      |  |      |        |  |  |  |
|---------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND   | 25.0 | mg/kg |      |  |      |        |  |  |  |
| Oil Range Organics (C28-C40)    | ND   | 50.0 | "     |      |  |      |        |  |  |  |
| Surrogate: n-Nonane             | 48.3 |      | "     | 50.0 |  | 96.6 | 50-200 |  |  |  |

**LCS (1924027-BS1)**

Prepared: 06/12/19 1 Analyzed: 06/17/19 1

|                                 |      |      |       |      |  |      |        |  |  |  |
|---------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 453  | 25.0 | mg/kg | 500  |  | 90.6 | 38-132 |  |  |  |
| Surrogate: n-Nonane             | 50.0 |      | "     | 50.0 |  | 99.9 | 50-200 |  |  |  |

**Matrix Spike (1924027-MS1)**

Source: P906044-01

Prepared: 06/12/19 1 Analyzed: 06/17/19 1

|                                 |      |      |       |      |    |      |        |  |  |  |
|---------------------------------|------|------|-------|------|----|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 383  | 25.0 | mg/kg | 500  | ND | 76.5 | 38-132 |  |  |  |
| Surrogate: n-Nonane             | 49.7 |      | "     | 50.0 |    | 99.4 | 50-200 |  |  |  |

**Matrix Spike Dup (1924027-MSD1)**

Source: P906044-01

Prepared: 06/12/19 1 Analyzed: 06/17/19 1

|                                 |      |      |       |      |    |      |        |      |    |  |
|---------------------------------|------|------|-------|------|----|------|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 375  | 25.0 | mg/kg | 500  | ND | 75.0 | 38-132 | 2.10 | 20 |  |
| Surrogate: n-Nonane             | 50.2 |      | "     | 50.0 |    | 100  | 50-200 |      |    |  |

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**Nonhalogenated Organics by 8015 - GRO - Quality Control**
**Envirotech Analytical Laboratory**

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

**Batch 1924024 - Purge and Trap EPA 5030A**
**Blank (1924024-BLK1)**

Prepared: 06/12/19 1 Analyzed: 06/14/19 0

|                                  |       |      |       |       |  |      |        |  |  |  |
|----------------------------------|-------|------|-------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND    | 20.0 | mg/kg |       |  |      |        |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.517 |      | "     | 0.500 |  | 103  | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.490 |      | "     | 0.500 |  | 98.0 | 70-130 |  |  |  |
| Surrogate: Bromofluorobenzene    | 0.490 |      | "     | 0.500 |  | 97.9 | 70-130 |  |  |  |

**LCS (1924024-BS2)**

Prepared: 06/12/19 1 Analyzed: 06/13/19 2

|                                  |       |      |       |       |  |      |        |  |  |  |
|----------------------------------|-------|------|-------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 47.7  | 20.0 | mg/kg | 50.0  |  | 95.4 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.509 |      | "     | 0.500 |  | 102  | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.494 |      | "     | 0.500 |  | 98.8 | 70-130 |  |  |  |
| Surrogate: Bromofluorobenzene    | 0.485 |      | "     | 0.500 |  | 96.9 | 70-130 |  |  |  |

**Matrix Spike (1924024-MS2)**

Source: P906044-01

Prepared: 06/12/19 1 Analyzed: 06/14/19 0

|                                  |       |      |       |       |    |      |        |  |  |  |
|----------------------------------|-------|------|-------|-------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 49.3  | 20.0 | mg/kg | 50.0  | ND | 98.5 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.502 |      | "     | 0.500 |    | 100  | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.500 |      | "     | 0.500 |    | 100  | 70-130 |  |  |  |
| Surrogate: Bromofluorobenzene    | 0.490 |      | "     | 0.500 |    | 97.9 | 70-130 |  |  |  |

**Matrix Spike Dup (1924024-MSD2)**

Source: P906044-01

Prepared: 06/12/19 1 Analyzed: 06/14/19 0

|                                  |       |      |       |       |    |      |        |       |    |  |
|----------------------------------|-------|------|-------|-------|----|------|--------|-------|----|--|
| Gasoline Range Organics (C6-C10) | 49.7  | 20.0 | mg/kg | 50.0  | ND | 99.5 | 70-130 | 0.962 | 20 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.501 |      | "     | 0.500 |    | 100  | 70-130 |       |    |  |
| Surrogate: Toluene-d8            | 0.496 |      | "     | 0.500 |    | 99.2 | 70-130 |       |    |  |
| Surrogate: Bromofluorobenzene    | 0.500 |      | "     | 0.500 |    | 100  | 70-130 |       |    |  |

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

**Anions by 300.0/9056A - Quality Control**
**Envirotech Analytical Laboratory**

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

**Batch 1924032 - Anion Extraction EPA 300.0/9056A**
**Blank (1924032-BLK1)**

Prepared: 06/12/19 1 Analyzed: 06/13/19 1

Chloride ND 20.0 mg/kg

**LCS (1924032-BS1)**

Prepared: 06/12/19 1 Analyzed: 06/13/19 1

Chloride 271 20.0 mg/kg 250 108 90-110

**Matrix Spike (1924032-MS1)**
**Source: P906044-01**

Prepared: 06/12/19 1 Analyzed: 06/13/19 1

Chloride 1400 20.0 mg/kg 250 1210 77.4 80-120 SPK1

**Matrix Spike Dup (1924032-MSD1)**
**Source: P906044-01**

Prepared: 06/12/19 1 Analyzed: 06/13/19 1

Chloride 1490 20.0 mg/kg 250 1210 110 80-120 5.61 20

**QC Summary Report**
**Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

Project Name: Ross Draw Unit #57  
 Project Number: 04108-0369  
 Project Manager: Kris Rowe

**Reported:**  
 06/18/19 13:28

### Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

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| Client: <u>WPX Carlsbad</u><br>Project: <u>ROSS DRAW UNIT #57</u><br>Project Manager: <u>KRIS ROWE</u><br>Address: <u>ON FILE</u><br>City, State, Zip: <u>↓</u><br>Phone: <u>↓</u><br>Email: <u>↓</u> |              |        |               | <b>Report Attention</b><br>Report due by: _____<br>Attention: _____<br>Address: _____<br>City, State, Zip: _____<br>Phone: _____<br>Email: _____ |            |                 |                 | <b>Lab Use Only</b><br>Lab WO# <u>P 906044</u> Job Number <u>04108-0369</u><br>Analysis and Method: _____<br>State: _____<br>NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> |             |             |                |         |  | <b>TAT</b><br>1D <input type="checkbox"/> 3D <input type="checkbox"/> |  | <b>EPA Program</b><br>RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|---------|--|-----------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------|--|
| Time Sampled                                                                                                                                                                                          | Date Sampled | Matrix | No Containers | Sample ID                                                                                                                                        | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021                                                                                                                                                                                                                                            | VOC by 8260 | Metals 6010 | Chloride 300.0 | Remarks |  |                                                                       |  |                                                                                                                |  |
|                                                                                                                                                                                                       | 6/10/19      | Soil   | 1             | SP 41                                                                                                                                            | 1          | X               | X               | X                                                                                                                                                                                                                                                       |             |             | X              |         |  |                                                                       |  |                                                                                                                |  |
|                                                                                                                                                                                                       | ↓            | ↓      | ↓             | SP 42                                                                                                                                            | 2          |                 |                 |                                                                                                                                                                                                                                                         |             |             |                |         |  |                                                                       |  |                                                                                                                |  |
|                                                                                                                                                                                                       | ↓            | ↓      | ↓             | SP 43                                                                                                                                            | 3          |                 |                 |                                                                                                                                                                                                                                                         |             |             |                |         |  |                                                                       |  |                                                                                                                |  |
|                                                                                                                                                                                                       | ↓            | ↓      | ↓             | SP 44                                                                                                                                            | 4          |                 |                 |                                                                                                                                                                                                                                                         |             |             |                |         |  |                                                                       |  |                                                                                                                |  |
|                                                                                                                                                                                                       | ↓            | ↓      | ↓             | SP 45                                                                                                                                            | 5          |                 |                 |                                                                                                                                                                                                                                                         |             |             |                |         |  |                                                                       |  |                                                                                                                |  |
|                                                                                                                                                                                                       | ↓            | ↓      | ↓             | SP 46                                                                                                                                            | 6          |                 |                 |                                                                                                                                                                                                                                                         |             |             |                |         |  |                                                                       |  |                                                                                                                |  |
|                                                                                                                                                                                                       | ↓            | ↓      | ↓             | SP 47                                                                                                                                            | 7          |                 |                 |                                                                                                                                                                                                                                                         |             |             |                |         |  |                                                                       |  |                                                                                                                |  |
|                                                                                                                                                                                                       | ↓            | ↓      | ↓             | SP 48                                                                                                                                            | 8          |                 |                 |                                                                                                                                                                                                                                                         |             |             |                |         |  |                                                                       |  |                                                                                                                |  |
|                                                                                                                                                                                                       | ↓            | ↓      | ↓             | SP 49                                                                                                                                            | 9          |                 |                 |                                                                                                                                                                                                                                                         |             |             |                |         |  |                                                                       |  |                                                                                                                |  |
|                                                                                                                                                                                                       | ↓            | ↓      | ↓             | SP 50                                                                                                                                            | 10         | ↓               | ↓               | ↓                                                                                                                                                                                                                                                       |             |             | ↓              |         |  |                                                                       |  |                                                                                                                |  |

**Additional Instructions:** v-s ice in cooler

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Kevin

Relinquished by: (Signature) Kevin Arana Date 6/11/19 Time 10:46 Received by: (Signature) Courtney Small Date 6/11/19 Time 10:46

Relinquished by: (Signature) FedEx Date 6/12/19 Time 10:00 Received by: (Signature) Jessica Myff Date 6/12/19 Time 10:00

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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