

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

State of New Mexico
Energy Minerals and Natural
Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

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

Release Notification

Responsible Party

| | |
|---|---------------------------------|
| Responsible Party: WPX Energy Permian, LLC | OGRID: 246289 |
| Contact Name: Deborah Watson | Contact Telephone: 575-885-7561 |
| Contact email: deborah.watson@wpxenergy.com | Incident # 2RP-5450 |
| Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88220 | |

Location of Release Source

Latitude 32.01059 Longitude -103.87236
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|---------------------------------------|-----------------------------------|
| Site Name: Ross Draw Unit #057 | Site Type: Well Pad |
| Date Release Discovered: May 12, 2019 | API# (if applicable) 30-015-41978 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| K | 27 | 26S | 30E | Eddy |

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | |
|--|--|---|
| <input checked="" type="checkbox"/> Crude Oil | Volume Released (bbls) 2 | Volume Recovered (bbls) 1.5 |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 8 | Volume Recovered (bbls) 6.5 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

Stuffing box failure-leak at wellhead resulted in the release of 10 bbl of production fluids, a truck was called and 8 bbl of fluid were recovered.

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

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Deborah Watson

Title: HSE Specialist

Signature:



Date: January 15, 2020

email: deborah.watson@wpenergy.com

Telephone: 575-885-7561

OCD Only

Received by: _____

Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____



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P.O. Box 1708 • Artesia, NM 88211
www.hrlcomp.com

January 15, 2020

Deborah Watson
Environmental Specialist - Permian Basin
5315 Buena Vista Dr.
Carlsbad, NM 88220

Subject: Closure Report
2RP-5450
Ross Draw Unit #057
Eddy County, New Mexico

Mrs. Watson:

On behalf of WPX Energy Permian, LLC, HRL Compliance Solutions, Inc. (HRL) is pleased to submit the attached closure report summarizing the closure actions taken in regards to the Ross Draw Unit #57 release. The purpose of the report is to obtain approval from the New Mexico Oil Conservation Division (NMOCD) for the remediation and closure of the release that occurred on May 12, 2019. Table 1 below summarizes information regarding the release.

Table 1: Release Summary

| Site Name | Ross Draw Unit #057 | | |
|-------------------------|--|-------------|--|
| Location | Lat. | Long. | Unit Letter, Section, Township, Range |
| | 32.01059° | -103.87236° | Unit Letter K, Section 27, Township 26S, Range 30E |
| District RP | 2RP-5450 | | |
| Date Release Discovered | 5/12/2019 | | |
| Date Reported | 5/15/2019 | | |
| Reported To | NMOCD and BLM via email | | |
| Surface Owner | Federal | | |
| Cause of Release | Stuffing box failure-leak at wellhead | | |
| Released Material | Produced Water and Crude Oil | | |
| Volume Release | 8 bbls of Produced Water and 2 bbls of Crude Oil | | |
| Volume Recovered | 6.5 bbls of Produced Water and 1.5 bbls of Crude Oil | | |
| Net Release | 1.5 bbls of Produced Water and 0.5 bbls of Crude Oil | | |
| Depth To Groundwater | >50 feet below ground surface | | |
| Nearest waterway | Red Bluff Reservoir, 4.2 miles southwest of release | | |



1.0 Initial Response & Notification

A release of 10 bbls of production fluid occurred on May 12, 2019 at the Ross Draw Unit #057 well pad. BLM and NMOCD were notified on May 15, 2019 by Deborah Watson via email. The well pad and pasture are both located on federal property. The cause of the release was due to a stuffing box failure-leak at the wellhead. An estimated 8 bbls of produced water and 2 bbls of crude oil impacted the well pad surface, the adjacent pasture field and the access road. HRL personnel were present on May 14, 2019 to verify that the release had been stabilized. A vacuum truck recovered 6.5 bbls of produced water and 1.5 bbls of crude oil. All free-standing liquids were removed from the impacted area.

2.0 Site Assessment and Characterization

The location of the release is approximately 18.5 miles Southeast of Malaga, New Mexico with an elevation of approximately 3,010 feet above sea level. The well site and the adjacent pasture area are both located on federal land. A site location map is provided on Figure 1. The nearest surface water, Red Bluff reservoir, is located approximately 4.2 miles southwest of the release (Figure 2).

Depth-to-groundwater at the release site is estimated to be greater than 50 feet below ground surface as determined by review of the United States Geological Survey (USGS) National Water Information System. A 3 mile radius search of the USGS National Water Information System revealed 3 water wells with an average depth to groundwater of 92 feet. Figure 2 contains a site location map of water wells relevant to the depth-to-groundwater determination.

An assessment of wetlands and springs was conducted using a USGS topographical 7.5-minute map of Tucker Draw, New Mexico. No wetlands were identified within 300 feet of the release location. There are no springs within 1000 feet of this location. Figure 3 contains the topographic map used for assessment.

The release location is not within an area identified as an unstable karst geology area. An area map generated with data from the USGS displaying geologic units and structural features is shown in Figure 4.

Based on the assessments outlined above the following closure criteria was implemented to remediate the site.

Table 2: Closure Criteria

| Depth to Ground Water | Constituent | Limit |
|-----------------------|-------------------|-----------|
| Greater than 50 feet | Chloride | 600 mg/kg |
| | TPH (GRO+DRO+MRO) | 100 mg/kg |
| | BTEX | 50 mg/kg |
| | Benzene | 10 mg/kg |



3.0 Soil Remediation

Remedial activity at the Ross Draw Unit #057 consisted of the following actions:

- May 14, 2019- HRL personnel were present at the release location, to assess the impacted areas and conduct initial site delineation. GPS data was collected for the impacted area and the resulting spill map is shown on Figure 5.
- May 29, 2019- Kelley Oilfield Services began remediation activity by excavating material from the well pad area. HRL personnel were onsite to collect field screens, using an electrical conductivity (EC) meter, a photoionization detector (PID) unit and Petroflag unit. The field screen data results were utilized to guide the excavation to soil concentrations below the limits outlined in the NMOCD closure criteria.
- Excavation of the impacted soil on the well pad surface was completed to a total depth of 1 feet below ground surface for a majority of the areas on the well pad. Other impacted areas on the well pad surface were excavated to a total depth of two feet. Total excavation depth of a specific area can be found in the Analytical Summary chart attached as Table A.
- Excavation of the impacted area in the pasture field and access road was completed to total depth ranging from 2 to 2.5 below ground surface depending on the sample area.
- An estimated 1,380 cubic yards of impacted soil was removed from the location and transported to R360 Red Bluff waste management facility located in Orla, Texas. Disposal was conducted by Kelley Oilfield Services and took place continuously throughout the excavation period.
- Upon receipt of confirmatory soil samples to verify the excavated area was below NMOCD closure criteria concentrations, Kelley Oilfield Services backfilled and compacted the well pad excavation area with approximately 1,250 cubic yards of clean caliche. The pasture area was backfilled with 80 yards of clean topsoil. Backfilling of both areas took place on July 30, 2019.
- The backfilled pasture was subsequently reseeded with BLM #2 seed mix by Kelley Oilfield Services on July 30, 2019.

4.0 Soil Sampling and Analytical Results

Confirmation sampling took place on June 10, 2019 following NMOCD notification, attached as Appendix B. A confirmation sample plan was implemented where 5 point composite samples were collected such that they represented areas less than 200 square feet, in accordance with Subparagraph (c) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC. Confirmation sample locations are depicted on Figures 6A, 6B and 6C. A total of 115 confirmation samples were collected, including 103 excavation footprint samples and 12 sidewall samples. Samples which exceeded NMOCD closure criteria from the first sampling event were resampled on July 12, 2019 following notification (Appendix B). Sample SP92 was resampled on November 07, 2019.



All confirmation samples were submitted to Envirotech Inc., a National Environmental Laboratory Accreditation Program (NELAP) laboratory, in accordance with NMOCD soil sampling procedures. The samples were analyzed for chlorides by EPA Method 300.0/9056A, volatile organics (BTEX) by EPA Method 8021B, and DRO, GRO and MRO by EPA Method 8015D. A summary of the laboratory results are attached as Table A with the raw analytical reports included as Appendix C.

5.0 Summary

A release of 10 bbls of production fluids occurred on May 12, 2019 at the Ross Draw Unit #057 well pad. The cause of the release was due to a stuffing box failure-leak at the wellhead releasing production fluid onto the well pad surface which migrated into the adjacent pasture area and access road. BLM and NMOCD were both notified on May 15, 2019. The well pad and pasture are both located on federal property. Soil remediation activities involved excavating the impacted areas on the well pad surface to a total depth of 1 to 2 feet below ground surface depending on the impacted area. The impacted areas in the pasture and access road were excavated to a depth of 2 to 2.5 feet below ground surface. An estimated 1,380 cubic yards of impacted soil was transported for disposal to R360 Red Bluff waste management facility located in Orla, Texas

A total of 115 confirmation samples were collected from within the excavation to verify cleanup at the location. Analytical results for the 115 samples were reported below the concentration limits outlined in Table 1 of Subsection E of NMAC 19.15.29.12. Following analytical confirmation, the excavation on the well pad was backfilled and compacted with roughly 1,250 cubic yards of clean caliche. The pasture was backfilled with approximately 80 cubic yards of clean topsoil and reseeded with BLM #2 seed mix. No further remedial action is recommended.

6.0 Scope and Limitations

The scope of HRL's services consists of conducting site delineation, verification of release stabilization, regulatory liaison, guiding remediation activity, collecting confirmation soil samples, and preparation of this closure report. All work has been performed in accordance with 19.15.29 NMAC.



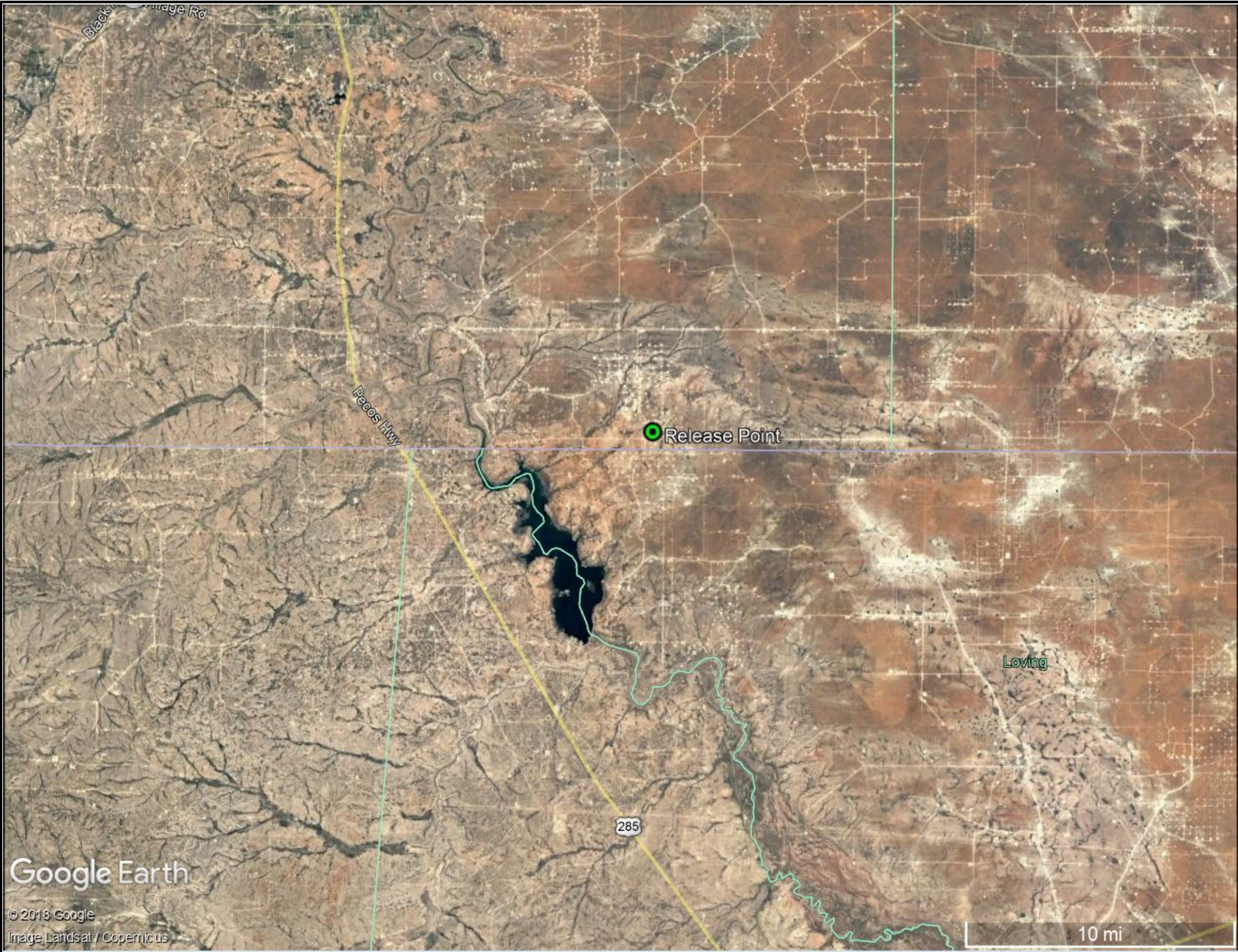
If there are any questions regarding this report, please contact Kevin Smith at 575-616-7398 Ext. 435.

Prepared by:
HRL Compliance Solutions, Inc.

Kevin Smith
Environmental Scientist – Permian

Attachments:

Figure 1: Site Location Map
Figure 2: Depth to Groundwater Map
Figure 3: Site Topographic Assessment
Figure 4: Karst Assessment Map
Figure 5: Spill Area Map
Figure 6A: Confirmation Sample Location Map – Footprint
Figure 6B: Confirmation Sample Location Map – Footprint
Figure 6C: Confirmation Sample Location Map – Sidewalls
Table A: Analytical Results Summary
Appendix A: C-141 Release Notification
Appendix B: Confirmation Sampling Notification
Appendix C: Laboratory Analytical Reports
Appendix D: Site Photographs








Figure 1: Site Location Map

Ross Draw Unit #57
32.010612 -103.872356
Section 27, Township 26 South, Range 30 East


Mapped Features



Ross Draw Unit #57

DISCLAIMER: This representation and the Geographic Information System (GIS) used to create it are designed as a source of reference and not intended to replace official records and/or legal surveys. HRL assumes no responsibility for any risks, dangers, or liabilities that may result from its use and makes no guarantees as to the quality or accuracy of the underlying data.



| | |
|--|------------------|
|  HRL COMPLIANCE SOLUTIONS | Author: K. Smith |
| | Rev: 0 |
| | Date: 8/1/2019 |

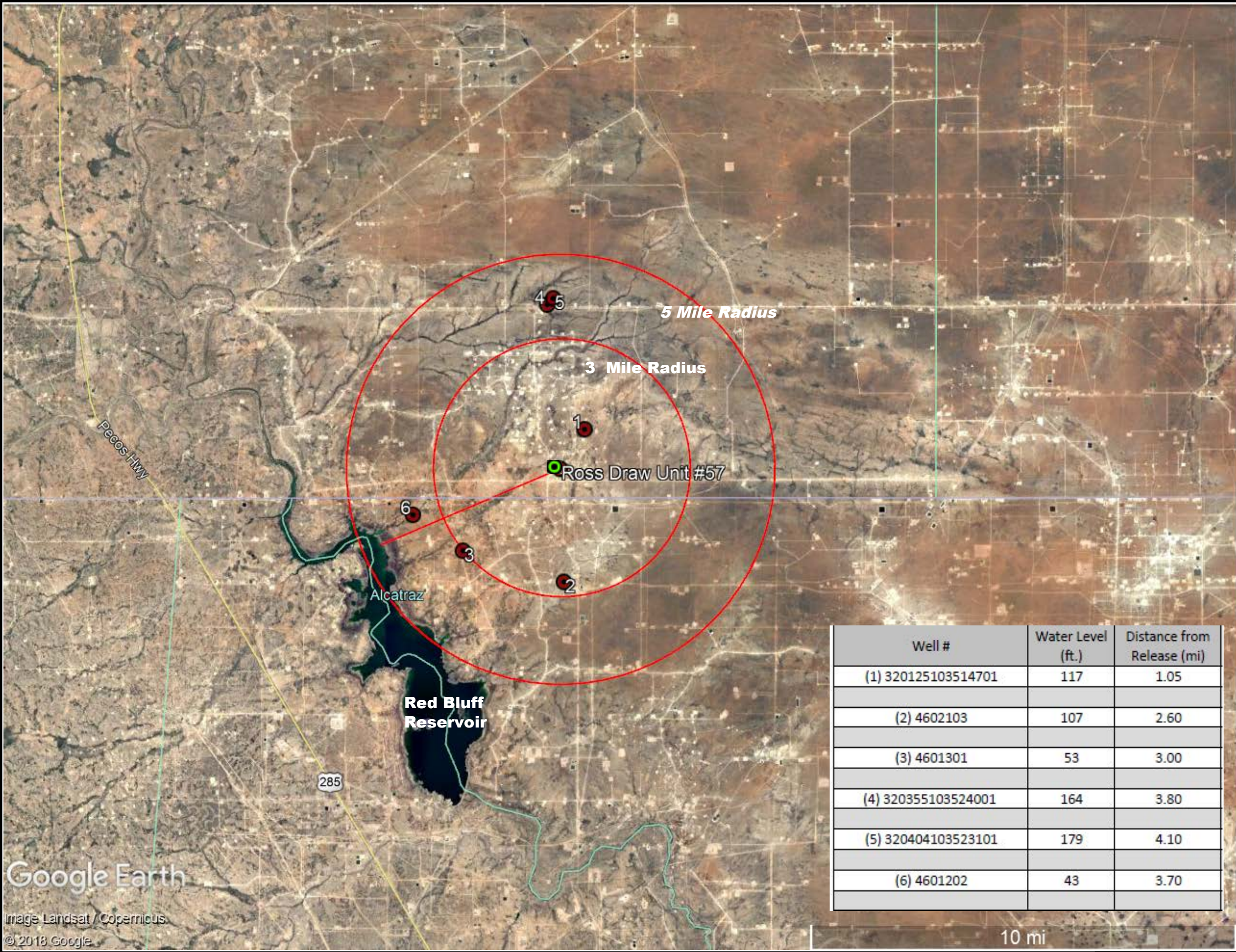


Figure 2: Depth to Groundwater Map
Ross Draw Unit #57
32.0104772, -103.8718488
Section 27, Township 26 South, Range 30 East

Mapped Features



Location of Release



Water Well Locations



Radius From Release



Distance to Surface Water

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| Well # | Water Level (ft.) | Distance from Release (mi) |
|---------------------|-------------------|----------------------------|
| (1) 320125103514701 | 117 | 1.05 |
| (2) 4602103 | 107 | 2.60 |
| (3) 4601301 | 53 | 3.00 |
| (4) 320355103524001 | 164 | 3.80 |
| (5) 320404103523101 | 179 | 4.10 |
| (6) 4601202 | 43 | 3.70 |



Author: K. Smith

Rev: 0

Date: 5/16/2019

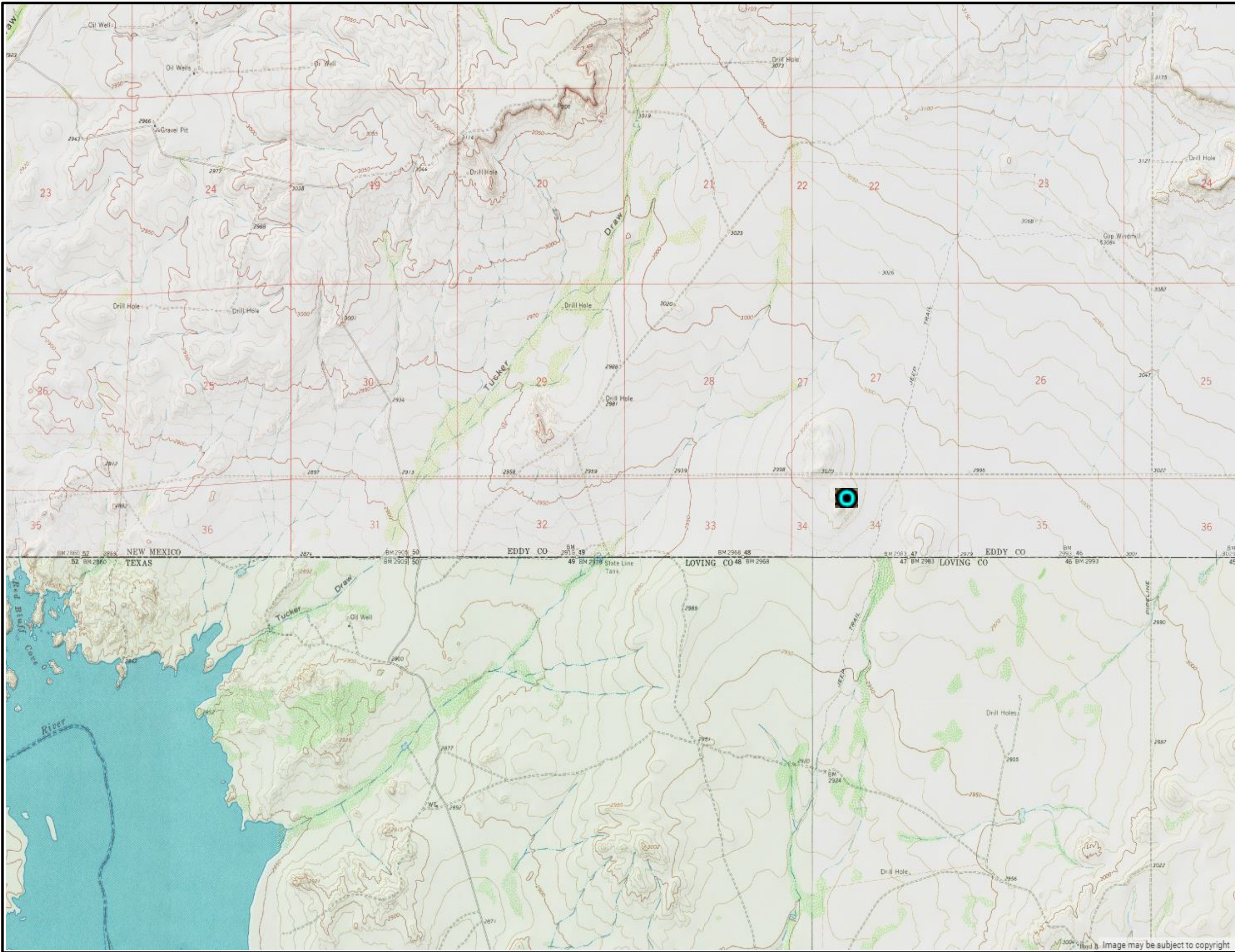


Figure 3: Topographic Assessment Map

Ross Draw Unit #57
32.0104772,-103.871.8488
Section 27, Township 26 South, Range 30 East

Mapped Features



Point of Release

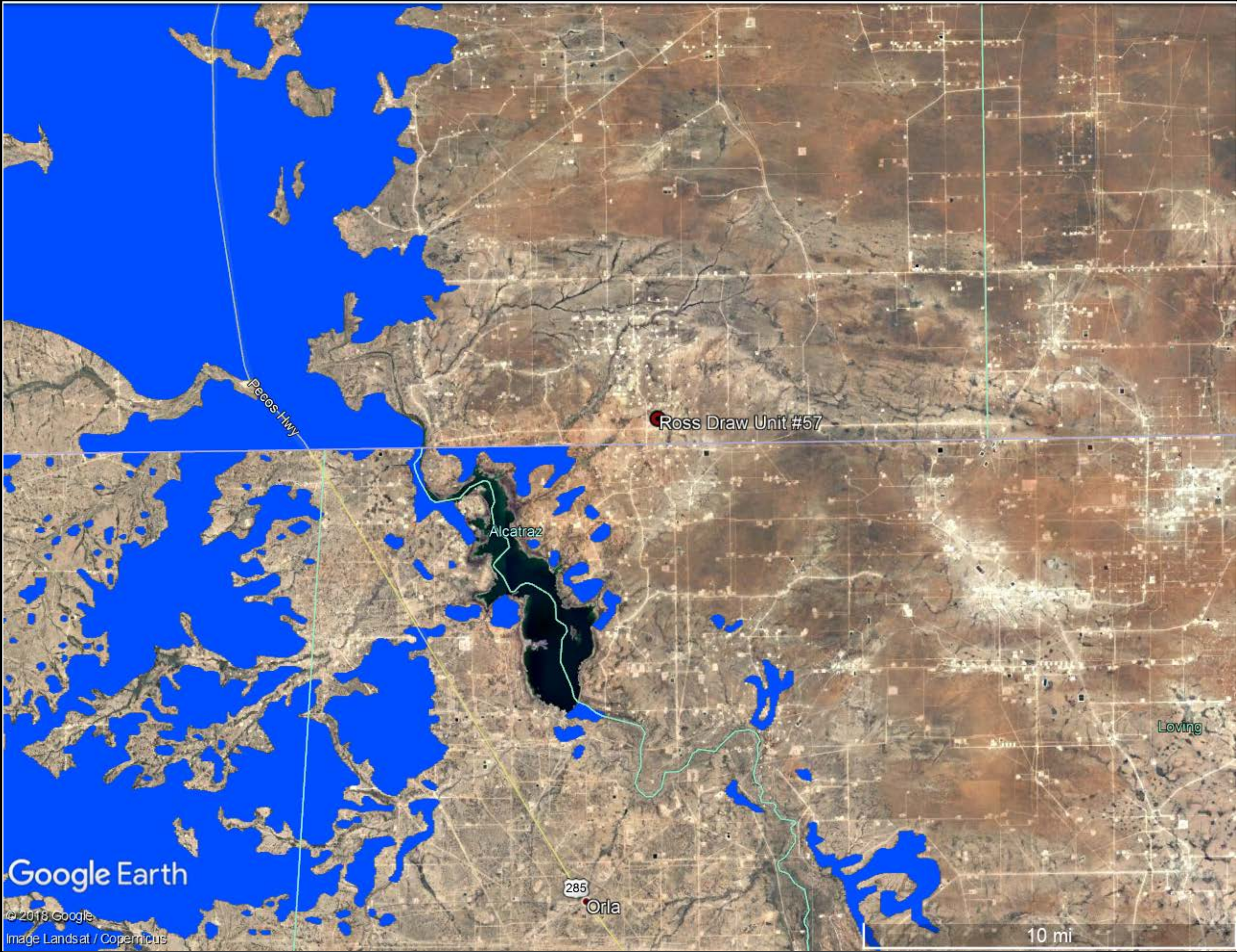
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Author: K. Smith

Rev: 0

Date: 9/11/2019



:][i fY' (.Karst
Location Map
Ross Draw Unit #57
32.0104772,-103.871.8488
Section 27, Township 26 South, Range
30 East

Mapped Features

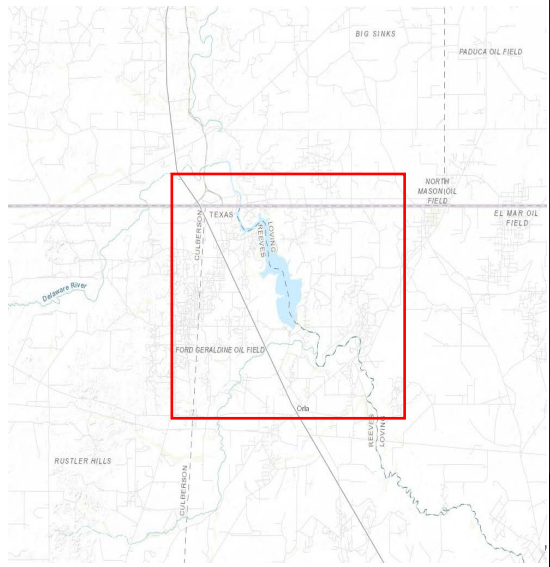


Karst Formations



Release Location

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Author: K.Smith

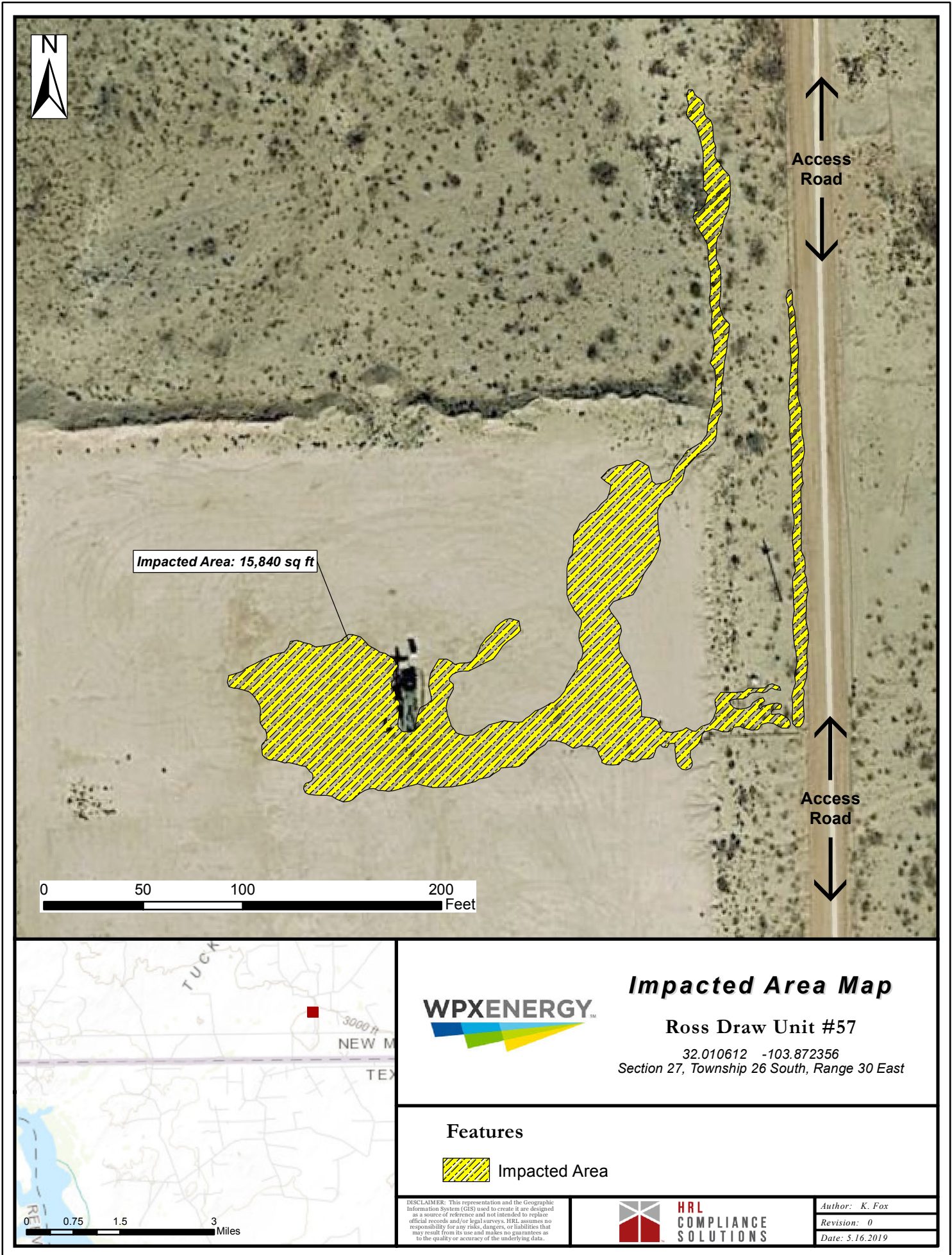
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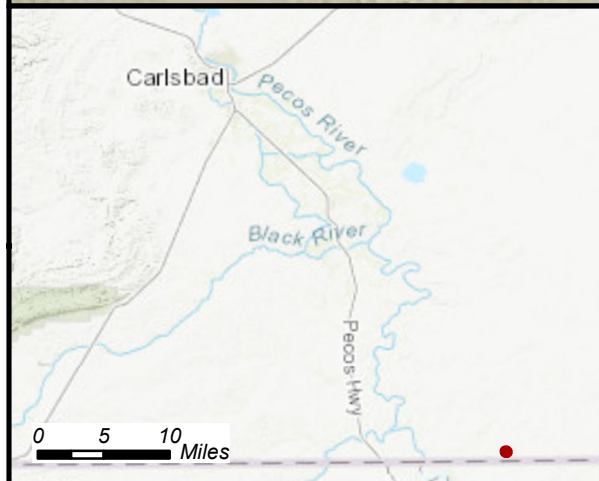
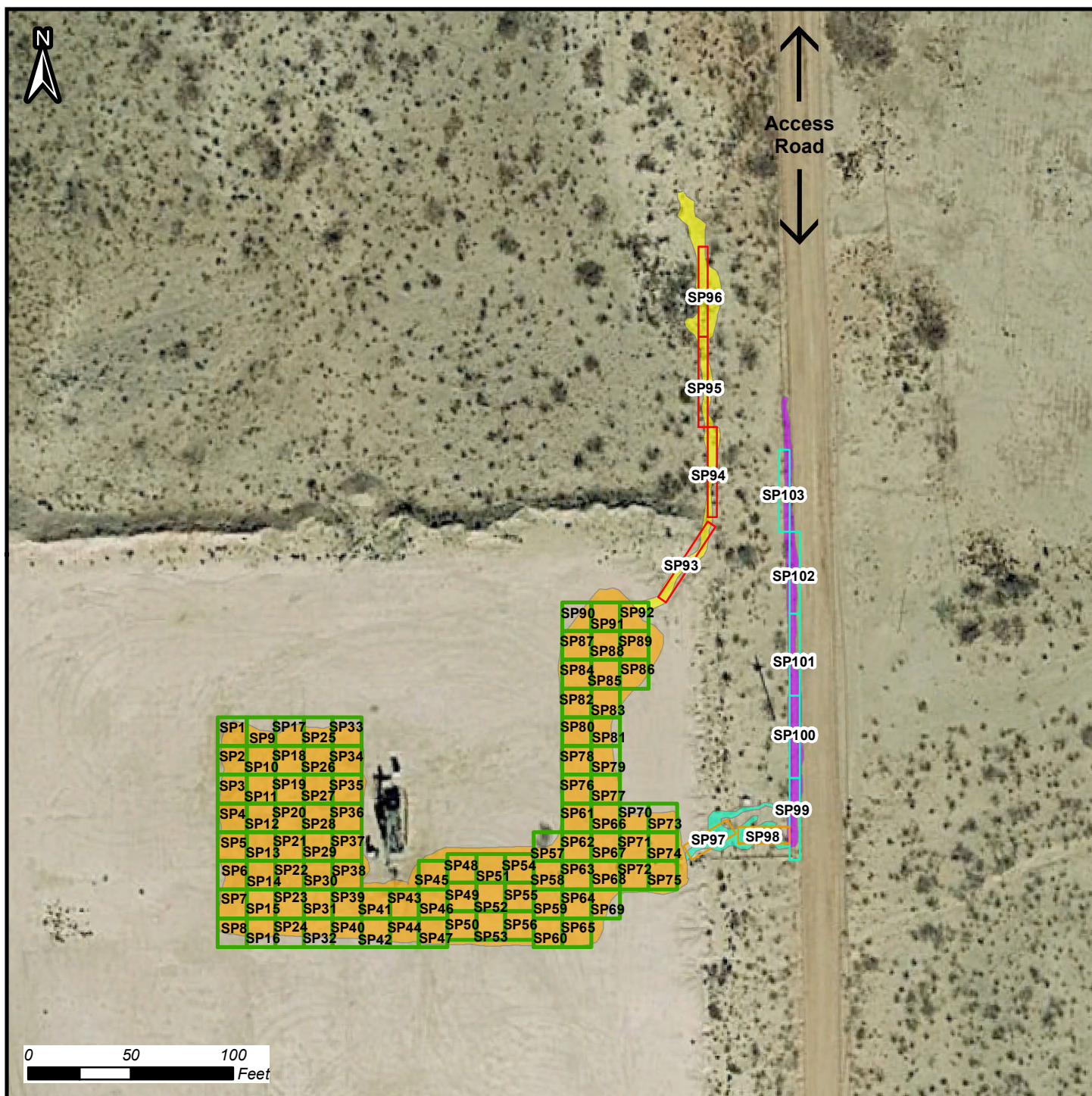
Date: 5/16/2019

Google Earth

© 2018 Google
Image Landsat / Copernicus

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Confirmation Sample Map

Ross Draw Unit #57
Excavation Footprint

32.010612 -103.872356
Section 27, Township 26 South, Range 30 East

Mapped Features

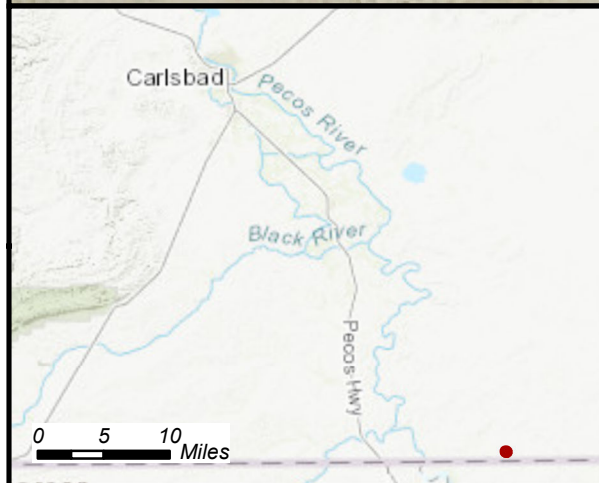
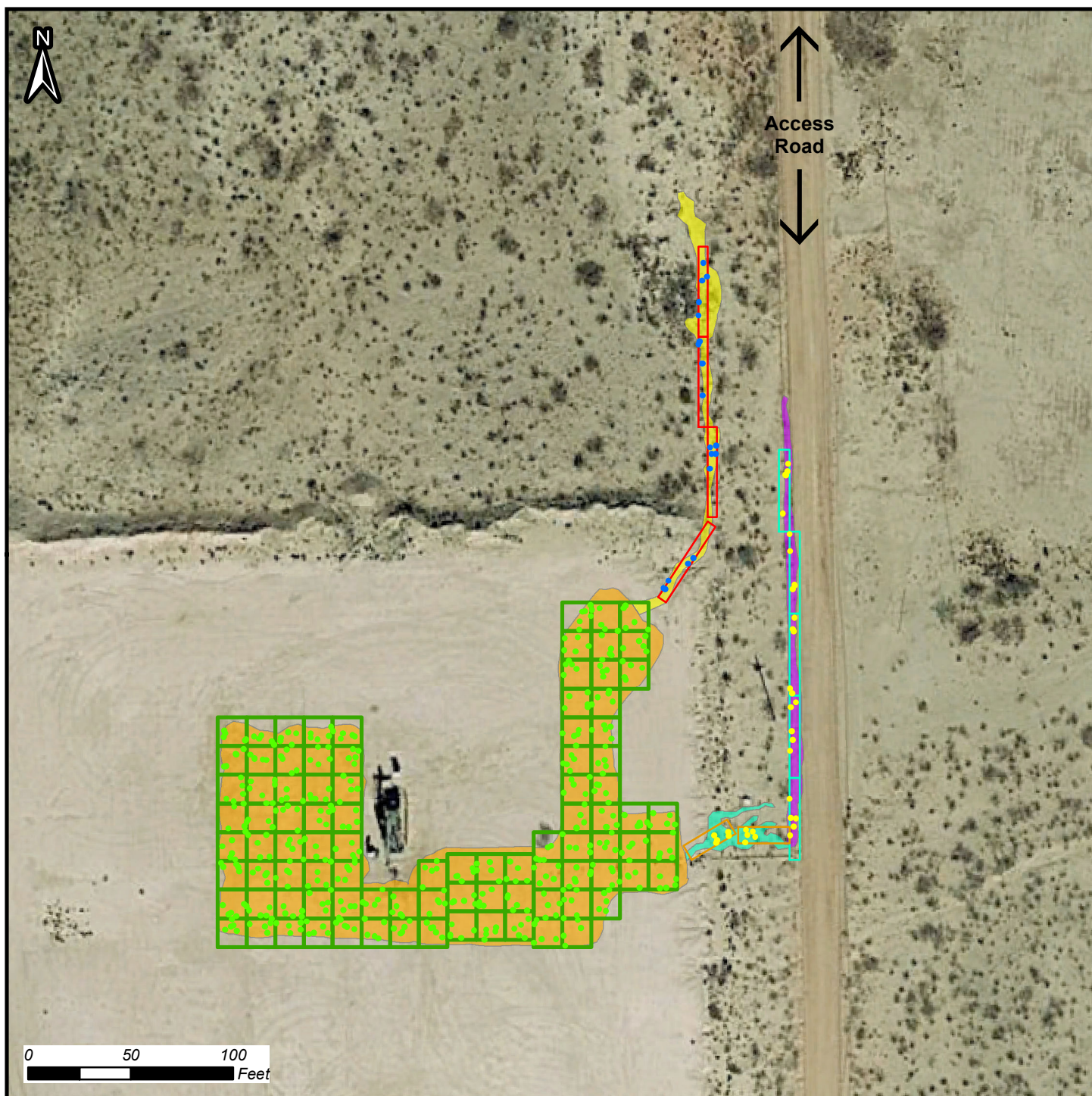
| | | |
|-----------------|------------------|---------------|
| Excavation Area | Access Road Area | 8' X 25' Grid |
| Off-Pad Area 1 | 14' X 14' Grid | 40' X 5' Grid |
| Off-Pad Area 2 | 44' X 4.5' Grid | |

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Author: A. Asay
Revision: 0
Date: 6/25/2019

T:\CLIENTS\WPX\2019\PERMANENT\Ross Draw Unit #57\MAPS\Ross Draw Unit #57 Stratified Random Sample Map (Labeled) 062519.mxd



Confirmation Sample Map

Ross Draw Unit #57
Excavation Footprint

32.010612 -103.872356
Section 27, Township 26 South, Range 30 East

Mapped Features

- Excavation Area Composite Sample Location
- Offsite Spill 1 Composite Sample Location
- Offsite Spill 2 Composite Sample Location

14' X 14' Grid

44' X 4.5' Grid

40' X 5' Grid

8' X 25' Grid

Excavation Area

Off-Pad Area 1

Off-Pad Area 2

Access Road Area

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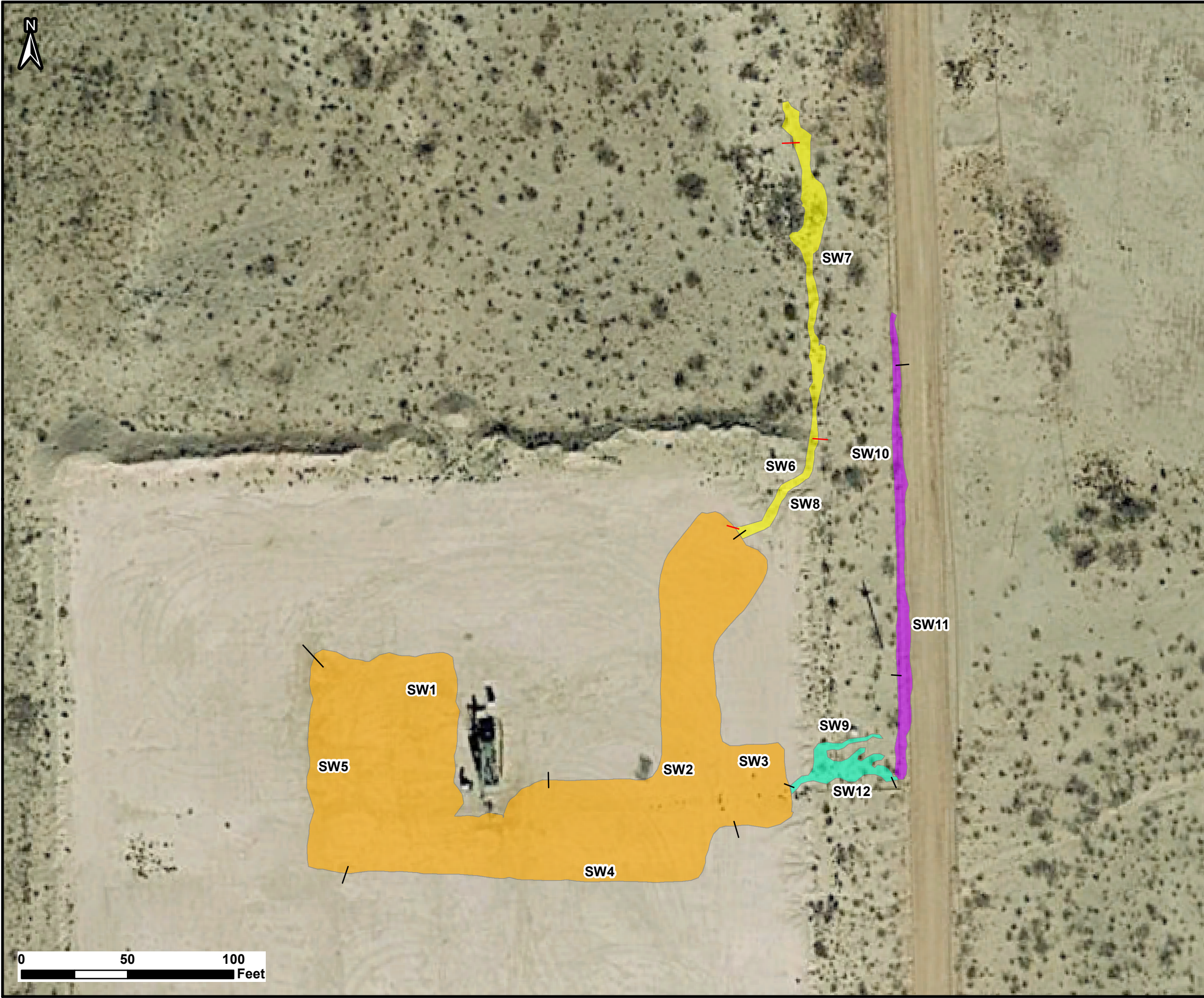
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Author: A. Asay

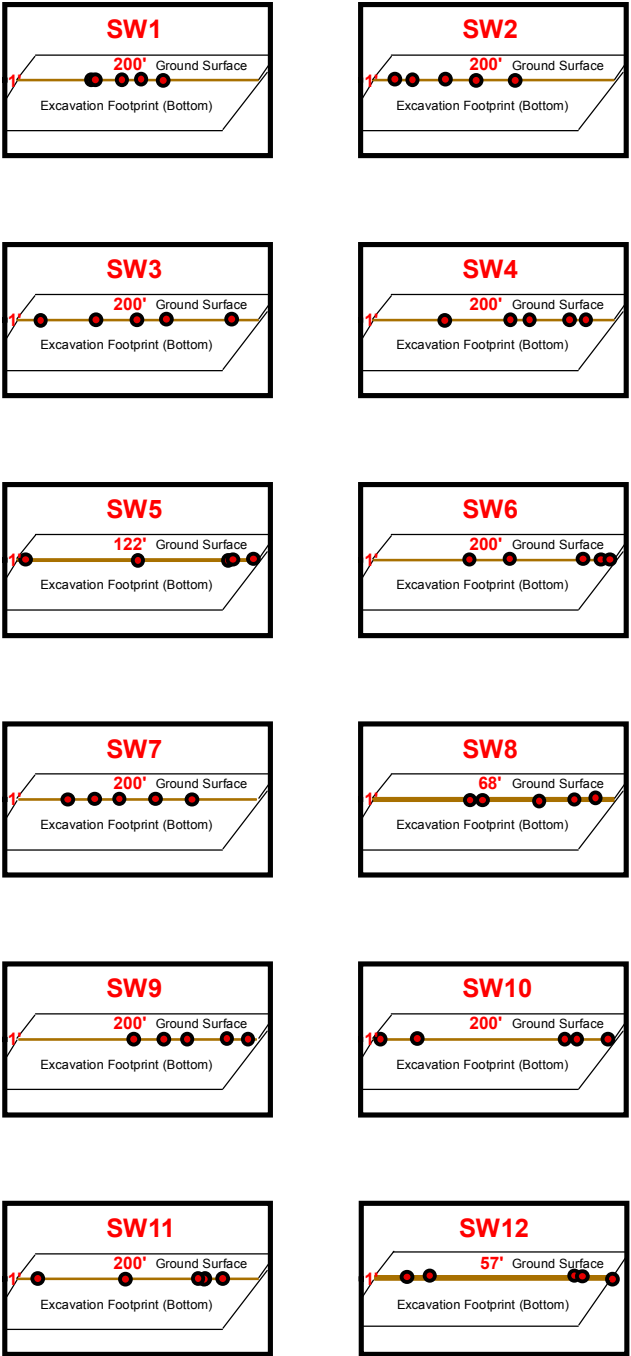
Revision: 0

Date: 6/25/2019

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Composite Sample Diagrams



Confirmation Sample Map

Ross Draw Unit #57 Sidewalls

32.010612 -103.872356

Section 27, Township 26 South, Range 30 East

Mapped Features

| | | |
|--------------------------|----------------|------------------|
| Sidewall Sample Location | Off-Pad Area 1 | Access Road Area |
| Excavation Area | Off-Pad Area 2 | |

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| |
|-----------------|
| Author: A. Asay |
| Revision: 0 |
| Date: 6/25/2019 |



Table A: Laboratory Results Summary

| Ross Draw Unit #57 WPX Energy Permian, LLC Excavation Footprint | | | Analytical Results - Envirotech Inc. | | | | | | |
|---|------------|---------------|--------------------------------------|---------|------|-----|-----|-----|-----------|
| NM OCD Table 1 Thresholds (GW | | | 600 | 10 | 50 | 100 | | | |
| Sample ID | Depth (ft) | Sampling Date | Chloride | Benzene | BTEX | GRO | DRO | MRO | Total TPH |
| SP1 | 1 | 6/10/2019 | 757 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 563 | | | | | | |
| SP2 | 1 | 6/10/2019 | 791 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 201 | | | | | | |
| SP3 | 1 | 6/10/2019 | 629 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 296 | | | | | | |
| SP4 | 1 | 6/10/2019 | 1130 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 466 | | | | | | |
| SP5 | 1 | 6/10/2019 | 1930 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 229 | | | | | | |
| SP6 | 1 | 6/10/2019 | 1200 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 123 | | | | | | |
| SP7 | 1 | 6/10/2019 | 306 | ND | ND | ND | ND | ND | ND |
| SP8 | 1 | 6/10/2019 | 239 | ND | ND | ND | ND | ND | ND |
| SP9 | 1 | 6/10/2019 | 10500 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 151 | | | | | | |
| SP10 | 1 | 6/10/2019 | 5490 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 343 | | | | | | |
| SP11 | 1 | 6/10/2019 | 806 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 260 | | | | | | |
| SP12 | 1 | 6/10/2019 | 3100 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 151 | | | | | | |
| SP13 | 1 | 6/10/2019 | 305 | ND | ND | ND | ND | ND | ND |
| SP14 | 1 | 6/10/2019 | 456 | ND | ND | ND | ND | ND | ND |
| SP15 | 1 | 6/10/2019 | 192 | ND | ND | ND | ND | ND | ND |
| SP16 | 1 | 6/10/2019 | 353 | ND | ND | ND | ND | ND | ND |
| SP17 | 1 | 6/10/2019 | 197 | ND | ND | ND | ND | ND | ND |
| SP18 | 1 | 6/10/2019 | 357 | ND | ND | ND | ND | ND | ND |
| SP19 | 1 | 6/10/2019 | 472 | ND | ND | ND | ND | ND | ND |
| SP20 | 1 | 6/10/2019 | 1490 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 75.2 | | | | | | |

| Ross Draw Unit #57 | | | Analytical Results - Envirotech Inc. | | | | | | |
|--------------------------------|------------|---------------|--------------------------------------|---------|------|-----|-----|-----|-----------|
| Excavation Footprint | | | Reported in mg/kg | | | | | | |
| NM OCD Table 1 Thresholds (GW) | | | 600 | 10 | 50 | 100 | | | |
| Sample ID | Depth (ft) | Sampling Date | Chloride | Benzene | BTEX | GRO | DRO | MRO | Total TPH |
| SP21 | 1 | 6/10/2019 | 398 | ND | ND | ND | ND | ND | ND |
| SP22 | 1 | 6/10/2019 | 127 | ND | ND | ND | ND | ND | ND |
| SP23 | 1 | 6/10/2019 | 320 | ND | ND | ND | ND | ND | ND |
| SP24 | 1 | 6/10/2019 | 326 | ND | ND | ND | ND | ND | ND |
| SP25 | 1 | 6/10/2019 | 306 | ND | ND | ND | ND | ND | ND |
| SP26 | 1 | 6/10/2019 | 20.6 | ND | ND | ND | ND | ND | ND |
| SP27 | 1 | 6/10/2019 | 330 | ND | ND | ND | ND | ND | ND |
| SP28 | 1 | 6/10/2019 | 293 | ND | ND | ND | ND | ND | ND |
| SP29 | 1 | 6/10/2019 | 426 | ND | ND | ND | ND | ND | ND |
| SP30 | 1 | 6/10/2019 | 208 | ND | ND | ND | ND | ND | ND |
| SP31 | 1 | 6/10/2019 | 1370 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 200 | | | | | | |
| SP32 | 1 | 6/10/2019 | 246 | ND | ND | ND | ND | ND | ND |
| SP33 | 1 | 6/10/2019 | 347 | ND | ND | ND | ND | ND | ND |
| SP34 | 1 | 6/10/2019 | 1100 | ND | ND | ND | ND | ND | ND |
| | | 7/12/2019 | 40.2 | | | | | | |
| SP35 | 1 | 6/10/2019 | 1030 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 131 | | | | | | |
| SP36 | 1 | 6/10/2019 | 381 | ND | ND | ND | ND | ND | ND |
| SP37 | 1 | 6/10/2019 | 454 | ND | ND | ND | ND | ND | ND |
| SP38 | 1 | 6/10/2019 | 824 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 104 | | | | | | |
| SP39 | 1 | 6/10/2019 | 204 | ND | ND | ND | ND | ND | ND |
| SP40 | 1 | 6/10/2019 | 449 | ND | ND | ND | ND | ND | ND |
| SP41 | 1 | 6/10/2019 | 1210 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 111 | | | | | | |

| Ross Draw Unit #57 | | | Analytical Results - Envirotech Inc. | | | | | | |
|--------------------------------|------------|---------------|--------------------------------------|---------|------|-----|-----|-----|-------------------|
| Excavation Footprint | | | | | | | | | Reported in mg/kg |
| NM OCD Table 1 Thresholds (GW) | | | 600 | 10 | 50 | 100 | | | |
| Sample ID | Depth (ft) | Sampling Date | Chloride | Benzene | BTEX | GRO | DRO | MRO | Total TPH |
| SP42 | 1 | 6/10/2019 | 1260 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 107 | | | | | | |
| SP43 | 1 | 6/10/2019 | 175 | ND | ND | ND | ND | ND | ND |
| SP44 | 1 | 6/10/2019 | 451 | ND | ND | ND | ND | ND | ND |
| SP45 | 1 | 6/10/2019 | ND | ND | ND | ND | ND | ND | ND |
| SP46 | 1 | 6/10/2019 | 185 | ND | ND | ND | ND | ND | ND |
| SP47 | 1 | 6/10/2019 | 232 | ND | ND | ND | ND | ND | ND |
| SP48 | 1 | 6/10/2019 | 294 | ND | ND | ND | ND | ND | ND |
| SP49 | 1 | 6/10/2019 | 186 | ND | ND | ND | ND | ND | ND |
| SP50 | 1 | 6/10/2019 | 229 | ND | ND | ND | ND | ND | ND |
| SP51 | 1 | 6/10/2019 | 294 | ND | ND | ND | ND | ND | ND |
| SP52 | 1 | 6/10/2019 | 105 | ND | ND | ND | ND | ND | ND |
| SP53 | 1 | 6/10/2019 | 62.4 | ND | ND | ND | ND | ND | ND |
| SP54 | 1 | 6/10/2019 | 314 | ND | ND | ND | ND | ND | ND |
| SP55 | 1 | 6/10/2019 | 1070 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 48.6 | | | | | | |
| SP56 | 1 | 6/10/2019 | 299 | ND | ND | ND | ND | ND | ND |
| SP57 | 1 | 6/10/2019 | 941 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 177 | | | | | | |
| SP58 | 1 | 6/10/2019 | 251 | ND | ND | ND | ND | ND | ND |
| SP59 | 1 | 6/10/2019 | 243 | ND | ND | ND | ND | ND | ND |
| SP60 | 1 | 6/10/2019 | 1590 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 40.6 | | | | | | |
| SP61 | 1 | 6/10/2019 | 1310 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 34.8 | | | | | | |
| SP62 | 1 | 6/10/2019 | 512 | ND | ND | ND | ND | ND | ND |
| SP63 | 1 | 6/10/2019 | 396 | ND | ND | ND | ND | ND | ND |

| Ross Draw Unit #57 | | | Analytical Results - Envirotech Inc. | | | | | | |
|---------------------------|------------|---------------|--------------------------------------|---------|------|-----|-----|-------------------|-----------|
| Excavation Footprint | | | | | | | | Reported in mg/kg | |
| NM OCD Table 1 Thresholds | | | 600 | 10 | 50 | 100 | | | |
| Sample ID | Depth (ft) | Sampling Date | Chloride | Benzene | BTEX | GRO | DRO | MRO | Total TPH |
| SP64 | 1 | 6/10/2019 | 859 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 156 | | | | | | |
| SP65 | 1 | 6/10/2019 | 310 | ND | ND | ND | ND | ND | ND |
| SP66 | 1 | 6/10/2019 | 989 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 79 | | | | | | |
| SP67 | 1 | 6/10/2019 | 243 | ND | ND | ND | ND | ND | ND |
| SP68 | 1 | 6/10/2019 | 323 | ND | ND | ND | ND | ND | ND |
| SP69 | 1 | 6/10/2019 | 920 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 118 | | | | | | |
| SP70 | 1 | 6/10/2019 | 853 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 99.5 | | | | | | |
| SP71 | 1 | 6/10/2019 | 336 | ND | ND | ND | ND | ND | ND |
| SP72 | 2 | 6/10/2019 | 568 | ND | ND | ND | ND | ND | ND |
| SP73 | 1 | 6/10/2019 | 515 | ND | ND | ND | ND | ND | ND |
| SP74 | 1 | 6/10/2019 | 196 | ND | ND | ND | ND | ND | ND |
| SP75 | 1 | 6/10/2019 | 250 | ND | ND | ND | ND | ND | ND |
| SP76 | 1 | 6/10/2019 | 3430 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 192 | | | | | | |
| SP77 | 1 | 6/10/2019 | 1480 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 192 | | | | | | |
| SP78 | 1 | 6/10/2019 | 6150 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | ND | | | | | | |
| SP79 | 1 | 6/10/2019 | 7720 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 99.1 | | | | | | |
| SP80 | 1 | 6/10/2019 | 226 | ND | ND | ND | ND | ND | ND |
| SP81 | 1 | 6/10/2019 | 2690 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 26.6 | | | | | | |
| SP82 | 1 | 6/10/2019 | 287 | ND | ND | ND | ND | ND | ND |
| SP83 | 1 | 6/10/2019 | 70.3 | ND | ND | ND | ND | ND | ND |
| SP84 | 1 | 6/10/2019 | 297 | ND | ND | ND | ND | ND | ND |
| SP85 | 1 | 6/10/2019 | 307 | ND | ND | ND | ND | ND | ND |

| Ross Draw Unit #57 | | | Analytical Results - Envirotech Inc. | | | | | | |
|--------------------------------|------------|---------------|--------------------------------------|---------|------|-----|------|-----|-------------------|
| Excavation Footprint | | | | | | | | | Reported in mg/kg |
| NM OCD Table 1 Thresholds (GW) | | | 600 | 10 | 50 | 100 | | | |
| Sample ID | Depth (ft) | Sampling Date | Chloride | Benzene | BTEX | GRO | DRO | MRO | Total TPH |
| SP86 | 1 | 6/10/2019 | 462 | ND | ND | ND | ND | ND | ND |
| SP87 | 1 | 6/10/2019 | 628 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 69.7 | | | | | | |
| SP88 | 1 | 6/10/2019 | 381 | ND | ND | ND | ND | ND | ND |
| SP89 | 1 | 6/10/2019 | 206 | ND | ND | ND | ND | ND | ND |
| SP90 | 1 | 6/10/2019 | 597 | ND | ND | ND | ND | ND | ND |
| SP91 | 1 | 6/10/2019 | 2070 | ND | ND | ND | ND | ND | ND |
| | 2 | 7/12/2019 | 78.7 | | | | | | |
| SP92 | 1 | 6/10/2019 | 691 | ND | ND | ND | ND | ND | ND |
| | 2.5 | 11/7/2019 | 254 | | | | | | |
| SP93 | 2 | 6/10/2019 | 4000 | ND | ND | ND | 108 | ND | 108 |
| | 2.5 | 7/12/2019 | 149 | | | ND | ND | ND | |
| SP94 | 2 | 6/10/2019 | 218 | ND | ND | ND | ND | ND | ND |
| SP95 | 2 | 6/10/2019 | 655 | ND | ND | ND | 3820 | 674 | 4494 |
| | 2.5 | 7/12/2019 | 133 | | | | ND | ND | ND |
| SP96 | 2 | 6/10/2019 | 604 | ND | ND | ND | ND | ND | ND |
| SP97 | 2 | 6/10/2019 | 288 | ND | ND | ND | ND | ND | ND |
| SP98 | 2 | 6/10/2019 | 281 | ND | ND | ND | ND | ND | ND |
| SP99 | 2 | 6/10/2019 | 295 | ND | ND | ND | ND | ND | ND |
| SP100 | 2 | 6/10/2019 | 24.6 | ND | ND | ND | ND | ND | ND |
| SP101 | 2 | 6/10/2019 | 358 | ND | ND | ND | ND | ND | ND |
| SP102 | 2 | 6/10/2019 | 1800 | ND | ND | ND | ND | ND | ND |
| | 2.5 | 7/12/2019 | 146 | | | | | | |
| SP103 | 2 | 6/10/2019 | 46.3 | ND | ND | ND | ND | ND | ND |

| Ross Draw Unit #57 | | | Analytical Results - Envirotech Inc. | | | | | | |
|--------------------------------|------------|---------------|--------------------------------------|---------|------|-----|-----|------|-------------------|
| Excavation Sidewalls | | | | | | | | | Reported in mg/kg |
| NM OCD Table 1 Thresholds (GW) | | | 600 | 10 | 50 | 100 | | | |
| Sample ID | Depth (ft) | Sampling Date | Chloride | Benzene | BTEX | GRO | DRO | MRO | Total TPH |
| SW1 | Composite | 6/10/2019 | 3210 | ND | ND | ND | ND | ND | ND |
| | Composite | 7/12/2019 | 23.4 | | | | | | |
| SW2 | Composite | 6/10/2019 | 1720 | ND | ND | ND | ND | ND | ND |
| | Composite | 7/12/2019 | 208 | | | | | | |
| SW3 | Composite | 6/10/2019 | 873 | ND | ND | ND | 119 | ND | 119 |
| | Composite | 7/12/2019 | 364 | | | ND | ND | ND | ND |
| SW4 | Composite | 6/10/2019 | 1540 | ND | ND | ND | ND | ND | ND |
| | Composite | 7/12/2019 | 213 | | | | | | |
| SW5 | Composite | 6/10/2019 | 925 | ND | ND | ND | ND | ND | ND |
| | Composite | 7/12/2019 | 126 | | | | | | |
| SW6 | Composite | 6/10/2019 | 447 | ND | ND | ND | ND | ND | ND |
| SW7 | Composite | 6/10/2019 | 826 | ND | ND | ND | ND | ND | ND |
| | Composite | 7/12/2019 | 118 | | | | | | |
| SW8 | Composite | 6/10/2019 | 397 | ND | ND | ND | ND | ND | ND |
| SW9 | Composite | 6/10/2019 | 3880 | ND | ND | ND | 196 | 54.8 | 250.8 |
| | Composite | 7/12/2019 | 275 | | | ND | ND | ND | ND |
| SW10 | Composite | 6/10/2019 | 313 | ND | ND | ND | ND | ND | ND |
| SW11 | Composite | 6/10/2019 | 4760 | ND | ND | ND | 248 | 74.7 | 342.7 |
| | Composite | 7/12/2019 | 219 | | | ND | ND | ND | ND |
| SW12 | Composite | 6/10/2019 | 1470 | ND | ND | ND | ND | ND | ND |
| | Composite | 7/12/2019 | 95.2 | | | | | | |



Appendix A: C-141 Release Notification

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

State of New Mexico
Energy Minerals and Natural
Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

| | |
|----------------|---------------|
| Incident ID | NAB1914935384 |
| District RP | 2RP-5450 |
| Facility ID | |
| Application ID | pAB1914935143 |

Release Notification

Responsible Party

| | |
|---|--|
| Responsible Party: WPX Energy Permian, LLC | OGRID: 246289 |
| Contact Name: Deborah Watson | Contact Telephone: 575-885-7561 |
| Contact email: deborah.watson@wpxenergy.com | Incident # (assigned by OCD) NAB1914935384 |
| Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88220 | |

Location of Release Source

Latitude 32.01059 Longitude -103.87236
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|---------------------------------------|-----------------------------------|
| Site Name: Ross Draw Unit #057 | Site Type: Well Pad |
| Date Release Discovered: May 12, 2019 | API# (if applicable) 30-015-41978 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| K | 27 | 26S | 30E | Eddy |

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | |
|--|--|---|
| <input checked="" type="checkbox"/> Crude Oil | Volume Released (bbls) 2 | Volume Recovered (bbls) 1.5 |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 8 | Volume Recovered (bbls) 6.5 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release



Stuffing box failure-leak at wellhead resulted in the release of 10 bbl of production fluids, a truck was called and 8 bbl of fluid were recovered.

| | |
|----------------|---------------|
| Incident ID | NAB1914935384 |
| District RP | 2RP-5450 |
| Facility ID | |
| Application ID | pAB1914935143 |

| | |
|--|---|
| <p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> | <p>If YES, for what reason(s) does the responsible party consider this a major release?</p> |
| <p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p> <p>Email notification was sent on May 15, 2015 to BLM and OCD.</p> | |

Initial Response

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

| | |
|--|-------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. | |
| If all the actions described above have <u>not</u> been undertaken, explain why: | |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| Printed Name: Deborah Watson Title: Environmental Specialist | |
| Signature:  | Date: 05/24/2019 |
| email: deborah.watson@wpxenergy.com | Telephone: 575-885-7561 |
| <u>OCD Only</u> | |
| Received by:  | Date: <u>5/29/2019</u> |



Appendix B: Confirmation Sampling Notification

From: [Watson, Debbie](#)
To: [Venegas, Victoria, EMNRD](#); [Bratcher, Mike, EMNRD](#); [Hamlet, Robert, EMNRD](#); [Amos, James](#)
Cc: [Kevin Smith](#)
Subject: RDU 057 (30-015-419782/2RP-5450) Confirmation Sampling Notification-Resample
Date: Wednesday, July 10, 2019 11:07:00 AM

Good Morning,

WPX has scheduled confirmation resampling for Friday, July 12 around 11:15 AM at the RDU #057. A few areas are being further excavated and HRL Compliance will be collecting samples from within these areas on Friday.

Please contact me with any questions.

Thank you,

Debbie

From: Watson, Debbie
Sent: Thursday, June 6, 2019 1:49 PM
To: Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Amos, James <jamos@blm.gov>
Subject: RDU 057 (30-015-419782/2RP-5450) Confirmation Sampling Notification

Good Afternoon,

WPX has scheduled confirmation sampling for Monday, June 10, 2019 at the RDU #057. HRL Compliance will be on site to collect the samples. Collection of samples is scheduled for around 1:30 PM.

Please contact me with any questions.

Thank you,

Debbie Watson

Deborah Watson
Environmental Specialist
5315 Buena Vista Drive | Carlsbad, NM 88220
office 575.885.7561 | cell 505.386.9693
deborah.watson@wpxenergy.com



If you have received this message in error, please reply to advise the sender of the error and then immediately delete this message. Thank you.

From: [Watson, Debbie](#)
To: [Kevin Smith](#); [Lori O'Brien](#)
Subject: FW: RDU 057 (30-015-419782/2RP-5450) Confirmation Sampling Notification
Date: Monday, June 10, 2019 5:41:21 AM

From: Watson, Debbie
Sent: Thursday, June 6, 2019 1:49 PM
To: Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Amos, James <jamos@blm.gov>
Subject: RDU 057 (30-015-419782/2RP-5450) Confirmation Sampling Notification

Good Afternoon,

WPX has scheduled confirmation sampling for Monday, June 10, 2019 at the RDU #057. HRL Compliance will be on site to collect the samples. Collection of samples is scheduled for around 1:30 PM.

Please contact me with any questions.

Thank you,

Debbie Watson

Deborah Watson
Environmental Specialist
5315 Buena Vista Drive | Carlsbad, NM 88220
office 575.885.7561 | cell 505.386.9693
deborah.watson@wpxenergy.com



If you have received this message in error, please reply to advise the sender of the error and then immediately delete this message. Thank you.

From: Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>
Sent: Wednesday, May 29, 2019 11:38 AM
To: Watson, Debbie <Deborah.Watson@wpxenergy.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: McKinney, Deborah <dmckinne@blm.gov>; jamos@blm.gov
Subject: [EXTERNAL] RE: C-141 RDU 057 (30-015-41978)

CAUTION: This email was sent from an EXTERNAL source. Use caution when clicking links or opening attachments.

From: Kevin Smith
To: ["Robert.Hamlet@state.nm.us"](mailto:Robert.Hamlet@state.nm.us); ["Victoria.Venegas@state.nm.us"](mailto:Victoria.Venegas@state.nm.us); ["mike.bratcher@state.nm.us"](mailto:mike.bratcher@state.nm.us); [Amos.James](mailto:Amos.James@state.nm.us)
Cc: ["deborah.watson@wpenergy.com"](mailto:deborah.watson@wpenergy.com)
Subject: Ross Draw Unit #57 (2RP-5450) - Confirmation Sampling Notification - SP 92
Date: Tuesday, November 05, 2019 8:48:00 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)

Good Morning,

This email serves as confirmation sampling notification for the Ross Draw Unit #57 (2RP-5450) which occurred on June 21, 2019. HRL will be on location November 7 at 10 AM MST to resample SP 92.

Please contact me if you any questions.

Thanks,

Kevin Smith | Environmental Scientist

HRL Compliance Solutions, Inc.

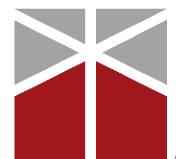
P.O. Box 1708 | Artesia, NM 88211-1708

main 575.616.7398 | mobile 936.689.0078

[Web](#) | [vCard](#) | [Map](#) | [f](#) | [in](#)



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Appendix C: Laboratory Analytical Results



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 6/12/2019

Job Number: 04108-0369

Work Order: P906042

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

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.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
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 10:31

Analytical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| SP1 | P906042-01A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP2 | P906042-02A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP3 | P906042-03A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP4 | P906042-04A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP5 | P906042-05A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP6 | P906042-06A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP7 | P906042-07A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP8 | P906042-08A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP9 | P906042-09A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP10 | P906042-10A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP11 | P906042-11A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP12 | P906042-12A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP13 | P906042-13A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP14 | P906042-14A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP15 | P906042-15A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP16 | P906042-16A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP17 | P906042-17A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP18 | P906042-18A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP19 | P906042-19A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP20 | P906042-20A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP1**P906042-01 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.2 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 98.3 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 97.5 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 101 % | | 50-200 | 1924016 | 06/12/19 | 06/12/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.2 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 98.3 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 97.5 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 757 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP2**P906042-02 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.4 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 99.5 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 97.7 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 101 % | | 50-200 | 1924016 | 06/12/19 | 06/12/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.4 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 99.5 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 97.7 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 791 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP3**P906042-03 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.0 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 98.6 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 96.4 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 99.2 % | | 50-200 | 1924016 | 06/12/19 | 06/12/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.0 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 98.6 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 96.4 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 629 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP4
P906042-04 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.6 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 99.8 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 98.3 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 100 % | | 50-200 | 1924016 | 06/12/19 | 06/12/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.6 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 99.8 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 98.3 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-------------|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 1130 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|-------------|------|-------|---|---------|----------|----------|-----------------|--|

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| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP5**P906042-05 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 98.2 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 96.2 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 102 % | | 50-200 | 1924016 | 06/12/19 | 06/12/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 98.2 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 96.2 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-------------|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 1930 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|-------------|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP6**P906042-06 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.5 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 98.8 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 95.8 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 101 % | | 50-200 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.5 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 98.8 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 95.8 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 1200 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|

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| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP7**P906042-07 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.3 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 99.1 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 97.1 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 102 % | | 50-200 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.3 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 99.1 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 97.1 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 306 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP8**P906042-08 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.1 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 98.5 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 98.7 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 102 % | | 50-200 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.1 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 98.5 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 98.7 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 2390 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP9**P906042-09 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.3 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 100 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 96.3 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 102 % | | 50-200 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.3 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 100 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 96.3 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-------|-----|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 10500 | 100 | mg/kg | 5 | 1924019 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-------|-----|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP10
P906042-10 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 103 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 99.0 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 97.3 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 101 % | | 50-200 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 103 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 99.0 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 97.3 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 5490 | 40.0 | mg/kg | 2 | 1924019 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP11**P906042-11 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 99.7 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 97.3 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 101 % | | 50-200 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 99.7 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 97.3 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 806 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP12
P906042-12 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.4 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 100 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 97.0 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 101 % | | 50-200 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.4 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 100 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 97.0 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 3100 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP13
P906042-13 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.2 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 99.0 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 95.1 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 102 % | | 50-200 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.2 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 99.0 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 95.1 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 305 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP14
P906042-14 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 103 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 97.9 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 95.4 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 100 % | | 50-200 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 103 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 97.9 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 95.4 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 456 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP15
P906042-15 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 99.1 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 95.3 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 102 % | | 50-200 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 99.1 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 95.3 % | | 70-130 | 1924017 | 06/12/19 | 06/13/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 192 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP16
P906042-16 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 94.6 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 105 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 97.2 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 100 % | | 50-200 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 94.6 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 105 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 97.2 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 353 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP17
P906042-17 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 104 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 96.7 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 98.3 % | | 50-200 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 104 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 96.7 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 197 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP18
P906042-18 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.5 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 104 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 96.9 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 99.4 % | | 50-200 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.5 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 104 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 96.9 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 357 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP19
P906042-19 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 104 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 104 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 96.2 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 101 % | | 50-200 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 104 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 104 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 96.2 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 472 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

SP20
P906042-20 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.4 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 105 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 95.5 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 98.2 % | | 50-200 | 1924016 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.4 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 105 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 95.5 % | | 70-130 | 1924017 | 06/12/19 | 06/12/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 1490 | 20.0 | mg/kg | 1 | 1924019 | 06/12/19 | 06/12/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|

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| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

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 1924017 - Purge and Trap EPA 5030A

Blank (1924017-BLK1)

Prepared & Analyzed: 06/12/19 1

| | | | | | | | | | | |
|----------------------------------|-------|--------|-------|-------|--|------|--------|--|--|--|
| 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 | 0.495 | | " | 0.500 | | 98.9 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.499 | | " | 0.500 | | 99.8 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.487 | | " | 0.500 | | 97.3 | 70-130 | | | |

LCS (1924017-BS1)

Prepared & Analyzed: 06/12/19 1

| | | | | | | | | | | |
|----------------------------------|-------|--------|-------|-------|--|------|--------|--|--|--|
| Benzene | 2.83 | 0.0250 | mg/kg | 2.50 | | 113 | 70-130 | | | |
| Toluene | 2.92 | 0.0250 | " | 2.50 | | 117 | 70-130 | | | |
| Ethylbenzene | 2.90 | 0.0250 | " | 2.50 | | 116 | 70-130 | | | |
| p,m-Xylene | 5.75 | 0.0500 | " | 5.00 | | 115 | 70-130 | | | |
| o-Xylene | 2.85 | 0.0250 | " | 2.50 | | 114 | 70-130 | | | |
| Total Xylenes | 8.60 | 0.0250 | " | 7.50 | | 115 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.496 | | " | 0.500 | | 99.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.498 | | " | 0.500 | | 99.6 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.479 | | " | 0.500 | | 95.8 | 70-130 | | | |

Matrix Spike (1924017-MS1)

Source: P906042-01

Prepared & Analyzed: 06/12/19 1

| | | | | | | | | | | |
|----------------------------------|-------|--------|-------|-------|----|------|--------|--|--|--|
| Benzene | 2.70 | 0.0250 | mg/kg | 2.50 | ND | 108 | 48-131 | | | |
| Toluene | 2.79 | 0.0250 | " | 2.50 | ND | 112 | 48-130 | | | |
| Ethylbenzene | 2.77 | 0.0250 | " | 2.50 | ND | 111 | 45-135 | | | |
| p,m-Xylene | 5.50 | 0.0500 | " | 5.00 | ND | 110 | 43-135 | | | |
| o-Xylene | 2.72 | 0.0250 | " | 2.50 | ND | 109 | 43-135 | | | |
| Total Xylenes | 8.22 | 0.0250 | " | 7.50 | ND | 110 | 43-135 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.507 | | " | 0.500 | | 101 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.496 | | " | 0.500 | | 99.2 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.490 | | " | 0.500 | | 97.9 | 70-130 | | | |

Matrix Spike Dup (1924017-MSD1)

Source: P906042-01

Prepared & Analyzed: 06/12/19 1

| | | | | | | | | | | |
|----------------------------------|-------|--------|-------|-------|----|------|--------|-------|----|--|
| Benzene | 2.63 | 0.0250 | mg/kg | 2.50 | ND | 105 | 48-131 | 2.55 | 23 | |
| Toluene | 2.72 | 0.0250 | " | 2.50 | ND | 109 | 48-130 | 2.54 | 24 | |
| Ethylbenzene | 2.73 | 0.0250 | " | 2.50 | ND | 109 | 45-135 | 1.27 | 27 | |
| p,m-Xylene | 5.43 | 0.0500 | " | 5.00 | ND | 109 | 43-135 | 1.13 | 27 | |
| o-Xylene | 2.69 | 0.0250 | " | 2.50 | ND | 108 | 43-135 | 0.979 | 27 | |
| Total Xylenes | 8.13 | 0.0250 | " | 7.50 | ND | 108 | 43-135 | 1.08 | 27 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.510 | | " | 0.500 | | 102 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.500 | | " | 0.500 | | 99.9 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.493 | | " | 0.500 | | 98.5 | 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 10:31

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 1924016 - DRO Extraction EPA 3570

Blank (1924016-BLK1)

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

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | | | | | | | |
| Oil Range Organics (C28-C40) | ND | 50.0 | " | | | | | | | |
| Surrogate: n-Nonane | 53.2 | | " | 50.0 | | 106 | 50-200 | | | |

LCS (1924016-BS1)

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

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 505 | 25.0 | mg/kg | 500 | | 101 | 38-132 | | | |
| Surrogate: n-Nonane | 50.6 | | " | 50.0 | | 101 | 50-200 | | | |

Matrix Spike (1924016-MS1)

Source: P906042-01

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

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|----|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 500 | 25.0 | mg/kg | 500 | ND | 100 | 38-132 | | | |
| Surrogate: n-Nonane | 51.0 | | " | 50.0 | | 102 | 50-200 | | | |

Matrix Spike Dup (1924016-MSD1)

Source: P906042-01

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

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|----|-----|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 508 | 25.0 | mg/kg | 500 | ND | 102 | 38-132 | 1.56 | 20 | |
| Surrogate: n-Nonane | 50.7 | | " | 50.0 | | 101 | 50-200 | | | |

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

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 1924017 - Purge and Trap EPA 5030A

Blank (1924017-BLK1)

Prepared & Analyzed: 06/12/19 1

| | | | | | | | | | | |
|----------------------------------|-------|------|-------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.495 | | " | 0.500 | | 98.9 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.499 | | " | 0.500 | | 99.8 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.487 | | " | 0.500 | | 97.3 | 70-130 | | | |

LCS (1924017-BS2)

Prepared & Analyzed: 06/12/19 1

| | | | | | | | | | | |
|----------------------------------|-------|------|-------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 50.4 | 20.0 | mg/kg | 50.0 | | 101 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.496 | | " | 0.500 | | 99.1 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.492 | | " | 0.500 | | 98.4 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.482 | | " | 0.500 | | 96.4 | 70-130 | | | |

Matrix Spike (1924017-MS2)

Source: P906042-01

Prepared & Analyzed: 06/12/19 1

| | | | | | | | | | | |
|----------------------------------|-------|------|-------|-------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 51.8 | 20.0 | mg/kg | 50.0 | ND | 104 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.506 | | " | 0.500 | | 101 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.497 | | " | 0.500 | | 99.4 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.484 | | " | 0.500 | | 96.8 | 70-130 | | | |

Matrix Spike Dup (1924017-MSD2)

Source: P906042-01

Prepared & Analyzed: 06/12/19 1

| | | | | | | | | | | |
|----------------------------------|-------|------|-------|-------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 52.6 | 20.0 | mg/kg | 50.0 | ND | 105 | 70-130 | 1.55 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.502 | | " | 0.500 | | 100 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.493 | | " | 0.500 | | 98.6 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.485 | | " | 0.500 | | 96.9 | 70-130 | | | |

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:31 |

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 1924019 - Anion Extraction EPA 300.0/9056A**Blank (1924019-BLK1)**

Prepared & Analyzed: 06/12/19 1

Chloride ND 20.0 mg/kg

LCS (1924019-BS1)

Prepared & Analyzed: 06/12/19 1

Chloride 256 20.0 mg/kg 250 102 90-110

Matrix Spike (1924019-MS1)**Source: P906042-01**

Prepared & Analyzed: 06/12/19 1

Chloride 1060 20.0 mg/kg 250 757 120 80-120

Matrix Spike Dup (1924019-MSD1)**Source: P906042-01**

Prepared & Analyzed: 06/12/19 1

Chloride 1010 20.0 mg/kg 250 757 99.5 80-120 4.94 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 10:31

Notes and Definitions

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>WPA Carlsbad</u> | Report Attention | Lab Use Only | | TAT | | EPA Program | | |
| Project: <u>Ross Draw Unit #57</u> | Report due by: _____ | Lab WO# <u>P906042</u> | Job Number <u>04108-0369</u> | 1D | 3D | RCRA | CWA | SDWA |
| Project Manager: <u>Alex Rowe</u> | Attention: _____ | Analysis and Method | | | | State | | |
| Address: <u>on file</u> | Address: _____ | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | |
| City, State, Zip | City, State, Zip | | | | | | | NM CO UT AZ |
| Phone: _____ | Phone: _____ | | | | | | | |
| Email: _____ | Email: _____ | | | | | | | |

| 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 |
|--------------|--------------|--------|---------------|-----------|------------|-----------------|-----------------|--------------|-------------|-------------|----------------|---------|
| 2:10 | 6/10 | Soil | 1 | SP1 | 1 | X | X | X | | | X | |
| | | | | SP2 | 2 | | | | | | | |
| | | | | SP3 | 3 | | | | | | | |
| | | | | SP4 | 4 | | | | | | | |
| | | | | SP5 | 5 | | | | | | | |
| | | | | SP6 | 6 | | | | | | | |
| | | | | SP7 | 7 | | | | | | | |
| | | | | SP8 | 8 | | | | | | | |
| | | | | SP9 | 9 | | | | | | | |
| | | | | SP10 | 10 | | | | | | | |

Additional Instructions:

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

vis in cooler
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

| | | | | | | |
|--|-----------------------|-------------------|--|---------------------|-------------------|-----------------------------|
| Relinquished by: (Signature) <u>Kevin</u> | Date <u>6/11/2019</u> | Time <u>10:45</u> | Received by: (Signature) <u>Carlynn Small</u> | Date <u>6/11/19</u> | Time <u>10:45</u> | Lab Use Only |
| Relinquished by: (Signature) <u>FedEx</u> | Date <u>6/12/19</u> | Time <u>10:00</u> | Received by: (Signature) <u>Jessie A. Wyff</u> | Date <u>6/12/19</u> | Time <u>10:00</u> | Received on ice: <u>Y</u> N |
| Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ | | | | | | AVG Temp °C <u>4</u> |

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.

| Client: <u>WPA Cuckstad</u> Project: <u>Ross Draw Unit #57</u> Project Manager: <u>Kris Rame</u> Address: <u>on file</u> City, State, Zip: <u>↓</u> Phone: <u>↓</u> Email: <u>↓</u> | | | | | Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ | | | | | Lab Use Only Lab WO# <u>P906042</u> Job Number <u>04108-0369</u> Analysis and Method: _____ DRO/ORO by 8015 _____ GRO/DRO by 8015 _____ BTEX by 8021 _____ VOC by 8260 _____ Metals 6010 _____ Chloride 300.0 _____ | | | | | | TAT 1D _____ 3D _____ | | EPA Program RCRA _____ CWA _____ SDWA _____ State: _____ NM _____ CO _____ UT _____ AZ _____ | | | |
|---|--------------|--------|---------------|-----------|--|-----------------|-----------------|--------------|-------------|--|----------------|---------|--|--|--|---------------------------------|--|--|--|--|--|
| 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 | | | | | | | | | |
| | 6/16 | Soil | 1 | SP11 | 11 | X | X | X | | | X | | | | | | | | | | |
| | | | | SP12 | 12 | | | | | | | | | | | | | | | | |
| | | | | SP13 | 13 | | | | | | | | | | | | | | | | |
| | | | | SP14 | 14 | | | | | | | | | | | | | | | | |
| | | | | SP15 | 15 | | | | | | | | | | | | | | | | |
| | | | | SP16 | 16 | | | | | | | | | | | | | | | | |
| | | | | SP17 | 17 | | | | | | | | | | | | | | | | |
| | | | | SP18 | 18 | | | | | | | | | | | | | | | | |
| | | | | SP19 | 19 | | | | | | | | | | | | | | | | |
| | | | | SP20 | 20 | | | | | | | | | | | | | | | | |

Additional Instructions:

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

v. site in cooler

| | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|---|--|--|--|
| Relinquished by: (Signature) <u>Kevin Amos</u> Date <u>6/11/2019</u> Time <u>10:45</u> | | | | Received by: (Signature) <u>Brittney Stovall</u> Date <u>6/11/19</u> Time <u>10:45</u> | | | | Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u> | | | |
| Relinquished by: (Signature) <u>FedEx</u> Date <u>6/12/19</u> Time <u>10:00</u> | | | | Received by: (Signature) <u>Jason J. Myer</u> Date <u>6/12/19</u> Time <u>10:00</u> | | | | | | | |

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.



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 6/12/2019

Job Number: 04108-0369

Work Order: P906043

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

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 10:29

Analytical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| SP21 | P906043-01A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP22 | P906043-02A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP23 | P906043-03A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP24 | P906043-04A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP25 | P906043-05A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP26 | P906043-06A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP27 | P906043-07A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP28 | P906043-08A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP29 | P906043-09A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP30 | P906043-10A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP31 | P906043-11A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP32 | P906043-12A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP33 | P906043-13A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP34 | P906043-14A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP35 | P906043-15A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP36 | P906043-16A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP37 | P906043-17A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP38 | P906043-18A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP39 | P906043-19A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP40 | P906043-20A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP21**P906043-01 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 94.9 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 104 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 98.7 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 97.7 % | | 50-200 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 94.9 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 104 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 98.7 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 398 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP22**P906043-02 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.2 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 105 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 98.5 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 101 % | | 50-200 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.2 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 105 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 98.5 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 127 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP23
P906043-03 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 103 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 106 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 97.2 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 99.0 % | | 50-200 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 103 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 106 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 97.2 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 320 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP24
P906043-04 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.5 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 106 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 97.6 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 102 % | | 50-200 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.5 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 106 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 97.6 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 326 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP25
P906043-05 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.8 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 105 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 96.6 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 97.6 % | | 50-200 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.8 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 105 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 96.6 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 306 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP26**P906043-06 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.0 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 103 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 99.4 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8260B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 98.9 % | | 50-200 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.0 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 103 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 99.4 % | | 70-130 | 1924022 | 06/12/19 | 06/13/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 20.6 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|

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| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP27**P906043-07 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 104 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 99.4 % | | 70-130 | 1924022 | 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 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 97.4 % | | 50-200 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 104 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 99.4 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 330 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP28**P906043-08 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 105 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 103 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 97.9 % | | 70-130 | 1924022 | 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 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 98.0 % | | 50-200 | 1924023 | 06/12/19 | 06/13/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 105 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 103 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 97.9 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 293 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP29**P906043-09 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.8 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 106 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 99.7 % | | 70-130 | 1924022 | 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 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 100 % | | 50-200 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.8 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 106 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 99.7 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 426 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP30
P906043-10 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.6 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 102 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 98.2 % | | 70-130 | 1924022 | 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 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 101 % | | 50-200 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.6 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 102 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 98.2 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 208 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP31**P906043-11 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.2 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 103 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 98.3 % | | 70-130 | 1924022 | 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 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 98.9 % | | 50-200 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.2 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 103 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 98.3 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 1370 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP32
P906043-12 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 106 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 105 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 97.8 % | | 70-130 | 1924022 | 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 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 97.4 % | | 50-200 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 106 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 105 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 97.8 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 246 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP33
P906043-13 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.2 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 102 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 96.5 % | | 70-130 | 1924022 | 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 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 98.1 % | | 50-200 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.2 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 102 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 96.5 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 347 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP34
P906043-14 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 104 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 98.5 % | | 70-130 | 1924022 | 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 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 101 % | | 50-200 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 104 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 98.5 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 1100 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|

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| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP35
P906043-15 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.2 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 103 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 101 % | | 70-130 | 1924022 | 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 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 99.7 % | | 50-200 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.2 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 103 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 101 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 1030 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP36**P906043-16 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 105 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 99.1 % | | 70-130 | 1924022 | 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 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 102 % | | 50-200 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 105 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 99.1 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 381 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP37
P906043-17 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.6 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 102 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 98.5 % | | 70-130 | 1924022 | 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 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 99.5 % | | 50-200 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.6 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 102 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 98.5 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 454 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP38
P906043-18 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.4 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 102 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 98.0 % | | 70-130 | 1924022 | 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 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 100 % | | 50-200 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.4 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 102 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 98.0 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 824 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP39**P906043-19 (Solid)**

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 103 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 98.6 % | | 70-130 | 1924022 | 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 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 99.1 % | | 50-200 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 103 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 98.6 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 204 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

SP40
P906043-20 (Solid)

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

Volatile Organic Compounds by 8260

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: 1,2-Dichloroethane-d4 | | 104 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 104 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 98.0 % | | 70-130 | 1924022 | 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 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: n-Nonane | | 99.0 % | | 50-200 | 1924023 | 06/12/19 | 06/14/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|----------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: 1,2-Dichloroethane-d4 | | 104 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 104 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 98.0 % | | 70-130 | 1924022 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 449 | 20.0 | mg/kg | 1 | 1924029 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

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 1924022 - Purge and Trap EPA 5030A

Blank (1924022-BLK1)

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

| | | | | | | | | | | |
|----------------------------------|-------|--------|-------|-------|--|------|--------|--|--|--|
| 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 | 0.488 | | " | 0.500 | | 97.5 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.517 | | " | 0.500 | | 103 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.501 | | " | 0.500 | | 100 | 70-130 | | | |

LCS (1924022-BS1)

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

| | | | | | | | | | | |
|----------------------------------|-------|--------|-------|-------|--|------|--------|--|--|--|
| Benzene | 2.59 | 0.0250 | mg/kg | 2.50 | | 103 | 70-130 | | | |
| Toluene | 2.60 | 0.0250 | " | 2.50 | | 104 | 70-130 | | | |
| Ethylbenzene | 2.60 | 0.0250 | " | 2.50 | | 104 | 70-130 | | | |
| p,m-Xylene | 4.94 | 0.0500 | " | 5.00 | | 98.8 | 70-130 | | | |
| o-Xylene | 2.42 | 0.0250 | " | 2.50 | | 97.0 | 70-130 | | | |
| Total Xylenes | 7.37 | 0.0250 | " | 7.50 | | 98.2 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.472 | | " | 0.500 | | 94.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.522 | | " | 0.500 | | 104 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.487 | | " | 0.500 | | 97.4 | 70-130 | | | |

Matrix Spike (1924022-MS1)

Source: P906043-01

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

| | | | | | | | | | | |
|----------------------------------|-------|--------|-------|-------|----|------|--------|--|--|--|
| Benzene | 2.56 | 0.0250 | mg/kg | 2.50 | ND | 102 | 48-131 | | | |
| Toluene | 2.61 | 0.0250 | " | 2.50 | ND | 104 | 48-130 | | | |
| Ethylbenzene | 2.57 | 0.0250 | " | 2.50 | ND | 103 | 45-135 | | | |
| p,m-Xylene | 4.91 | 0.0500 | " | 5.00 | ND | 98.2 | 43-135 | | | |
| o-Xylene | 2.41 | 0.0250 | " | 2.50 | ND | 96.6 | 43-135 | | | |
| Total Xylenes | 7.32 | 0.0250 | " | 7.50 | ND | 97.7 | 43-135 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.509 | | " | 0.500 | | 102 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.526 | | " | 0.500 | | 105 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.491 | | " | 0.500 | | 98.2 | 70-130 | | | |

Matrix Spike Dup (1924022-MSD1)

Source: P906043-01

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

| | | | | | | | | | | |
|----------------------------------|-------|--------|-------|-------|----|------|--------|-------|----|--|
| Benzene | 2.57 | 0.0250 | mg/kg | 2.50 | ND | 103 | 48-131 | 0.293 | 23 | |
| Toluene | 2.57 | 0.0250 | " | 2.50 | ND | 103 | 48-130 | 1.24 | 24 | |
| Ethylbenzene | 2.57 | 0.0250 | " | 2.50 | ND | 103 | 45-135 | 0.195 | 27 | |
| p,m-Xylene | 4.90 | 0.0500 | " | 5.00 | ND | 97.9 | 43-135 | 0.265 | 27 | |
| o-Xylene | 2.40 | 0.0250 | " | 2.50 | ND | 95.9 | 43-135 | 0.665 | 27 | |
| Total Xylenes | 7.30 | 0.0250 | " | 7.50 | ND | 97.3 | 43-135 | 0.397 | 27 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.492 | | " | 0.500 | | 98.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.528 | | " | 0.500 | | 106 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.491 | | " | 0.500 | | 98.2 | 70-130 | | | |

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

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 1924023 - DRO Extraction EPA 3570

Blank (1924023-BLK1)

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

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | | | | | | | |
| Oil Range Organics (C28-C40) | ND | 50.0 | " | | | | | | | |
| Surrogate: n-Nonane | 52.4 | | " | 50.0 | | 105 | 50-200 | | | |

LCS (1924023-BS1)

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

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 528 | 25.0 | mg/kg | 500 | | 106 | 38-132 | | | |
| Surrogate: n-Nonane | 53.8 | | " | 50.0 | | 108 | 50-200 | | | |

Matrix Spike (1924023-MS1)

Source: P906043-01

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

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|----|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 465 | 25.0 | mg/kg | 500 | ND | 93.0 | 38-132 | | | |
| Surrogate: n-Nonane | 49.8 | | " | 50.0 | | 99.6 | 50-200 | | | |

Matrix Spike Dup (1924023-MSD1)

Source: P906043-01

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

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|----|------|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 444 | 25.0 | mg/kg | 500 | ND | 88.9 | 38-132 | 4.54 | 20 | |
| Surrogate: n-Nonane | 48.6 | | " | 50.0 | | 97.2 | 50-200 | | | |

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

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 1924022 - Purge and Trap EPA 5030A

Blank (1924022-BLK1)

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

| | | | | | | | | | | |
|----------------------------------|-------|------|-------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.488 | | " | 0.500 | | 97.5 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.517 | | " | 0.500 | | 103 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.501 | | " | 0.500 | | 100 | 70-130 | | | |

LCS (1924022-BS2)

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

| | | | | | | | | | | |
|----------------------------------|-------|------|-------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 59.3 | 20.0 | mg/kg | 50.0 | | 119 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.493 | | " | 0.500 | | 98.5 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.528 | | " | 0.500 | | 106 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.486 | | " | 0.500 | | 97.2 | 70-130 | | | |

Matrix Spike (1924022-MS2)

Source: P906043-01

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

| | | | | | | | | | | |
|----------------------------------|-------|------|-------|-------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 59.1 | 20.0 | mg/kg | 50.0 | ND | 118 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.502 | | " | 0.500 | | 100 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.523 | | " | 0.500 | | 105 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.495 | | " | 0.500 | | 98.9 | 70-130 | | | |

Matrix Spike Dup (1924022-MSD2)

Source: P906043-01

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

| | | | | | | | | | | |
|----------------------------------|-------|------|-------|-------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 53.9 | 20.0 | mg/kg | 50.0 | ND | 108 | 70-130 | 9.20 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.487 | | " | 0.500 | | 97.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.528 | | " | 0.500 | | 106 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.513 | | " | 0.500 | | 103 | 70-130 | | | |

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 10:29 |

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 1924029 - Anion Extraction EPA 300.0/9056A**Blank (1924029-BLK1)**

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

| | | | | | | | | | | |
|----------|----|------|-------|--|--|--|--|--|--|--|
| Chloride | ND | 20.0 | mg/kg | | | | | | | |
|----------|----|------|-------|--|--|--|--|--|--|--|

LCS (1924029-BS1)

Prepared: 06/12/19 1 Analyzed: 06/13/19 0

| | | | | | | | | | | |
|----------|-----|------|-------|-----|--|-----|--------|--|--|--|
| Chloride | 257 | 20.0 | mg/kg | 250 | | 103 | 90-110 | | | |
|----------|-----|------|-------|-----|--|-----|--------|--|--|--|

Matrix Spike (1924029-MS1)**Source: P906043-02**

Prepared: 06/12/19 1 Analyzed: 06/13/19 0

| | | | | | | | | | | |
|----------|-----|------|-------|-----|-----|-----|--------|--|--|--|
| Chloride | 406 | 20.0 | mg/kg | 250 | 127 | 112 | 80-120 | | | |
|----------|-----|------|-------|-----|-----|-----|--------|--|--|--|

Matrix Spike Dup (1924029-MSD1)**Source: P906043-02**

Prepared: 06/12/19 1 Analyzed: 06/13/19 0

| | | | | | | | | | | |
|----------|-----|------|-------|-----|-----|-----|--------|------|----|--|
| Chloride | 392 | 20.0 | mg/kg | 250 | 127 | 106 | 80-120 | 3.57 | 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 10:29

Notes and Definitions

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 Carlisbad</u> Project: <u>Rock Draw Unit #157</u> Project Manager: <u>Kris Rowe</u> Address: <u>un file</u> City, State, Zip: <u>↓</u> Phone: <u>↓</u> Email: <u>↓</u> | | | | | Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ | | | | | Lab Use Only Lab WO# <u>P906043</u> Job Number <u>04108-0369</u> Analysis and Method: _____ DRO/ORO by 8015 _____ GRO/DRO by 8015 _____ BTEX by 8021 _____ VOC by 8260 _____ Metals 6010 _____ Chloride 300.0 _____ | | | | | TAT 1D _____ 3D _____ | | EPA Program RCRA _____ CWA _____ SDWA _____ State: _____ NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> Remarks: _____ | | |
|---|--------------|--------|---------------|-----------|--|-----------------|-----------------|--------------|-------------|--|----------------|--|--|--|---------------------------------|--|---|--|--|
| 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 | | | | | | | | |
| | 6/10/19 | soil | 1 | SP21 | 1 | X | X | X | | | X | | | | | | | | |
| | ↓ | ↓ | ↓ | SP22 | 2 | | | | | | | | | | | | | | |
| | ↓ | ↓ | ↓ | SP23 | 3 | | | | | | | | | | | | | | |
| | ↓ | ↓ | ↓ | SP24 | 4 | | | | | | | | | | | | | | |
| | ↓ | ↓ | ↓ | SP25 | 5 | | | | | | | | | | | | | | |
| | ↓ | ↓ | ↓ | SP26 | 6 | | | | | | | | | | | | | | |
| | ↓ | ↓ | ↓ | SP27 | 7 | | | | | | | | | | | | | | |
| | ↓ | ↓ | ↓ | SP28 | 8 | | | | | | | | | | | | | | |
| | ↓ | ↓ | ↓ | SP29 | 9 | | | | | | | | | | | | | | |
| | ↓ | ↓ | ↓ | SP30 | 10 | | | | | | | | | | | | | | |

Additional Instructions:

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

U's ice in cooler

| | | | | | | | | | |
|---|--|--|--|---|--|--|--|---|--|
| Relinquished by: (Signature) <u>Kevin</u> Date <u>6/11/2019</u> Time <u>10:45</u> | | | | Received by: (Signature) <u>Carney Swall</u> Date <u>6/11/19</u> Time <u>10:45</u> | | | | Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u> | |
| Relinquished by: (Signature) <u>FedEx</u> Date <u>6/12/19</u> Time <u>10:00</u> | | | | Received by: (Signature) <u>Jessica A. Hoff</u> Date <u>6-12-19</u> Time <u>10:00</u> | | | | | |

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.

| Client: <u>WPX Carlsbad</u> Project: <u>ROSS DRAW UNIT #57</u> Project Manager: <u>KRIS ROWE</u> Address: <u>on file</u> City, State, Zip: <u> </u> Phone: <u> </u> Email: <u> </u> | | | | Report Attention Report due by: <u> </u> Attention: <u> </u> Address: <u> </u> City, State, Zip: <u> </u> Phone: <u> </u> Email: <u> </u> | | | | Lab Use Only Lab WO# <u>P906043</u> Job Number <u>04108-0369</u> Analysis and Method DRO/ORO by 8015 <u> </u> GRO/DRO by 8015 <u> </u> BTEX by 8021 <u> </u> VOC by 8260 <u> </u> Metals 6010 <u> </u> Chloride 300.0 <u> </u> | | | | | | TAT 1D <u> </u> 3D <u> </u> | | EPA Program RCRA <u> </u> CWA <u> </u> SDWA <u> </u> State NM <u>X</u> CO <u> </u> UT <u> </u> AZ <u> </u> | | | |
|--|--------------|--------|---------------|--|------------|-----------------|-----------------|--|-------------|-------------|----------------|---------|--|---|--|--|--|--|--|
| 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 31 | 11 | X | X | X | | | X | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 32 | 12 | ↓ | ↓ | ↓ | | | ↓ | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 33 | 13 | ↓ | ↓ | ↓ | | | ↓ | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 34 | 14 | ↓ | ↓ | ↓ | | | ↓ | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 35 | 15 | ↓ | ↓ | ↓ | | | ↓ | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 36 | 16 | ↓ | ↓ | ↓ | | | ↓ | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 37 | 17 | ↓ | ↓ | ↓ | | | ↓ | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 38 | 18 | ↓ | ↓ | ↓ | | | ↓ | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 39 | 19 | ↓ | ↓ | ↓ | | | ↓ | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 40 | 20 | ↓ | ↓ | ↓ | | | ↓ | | | | | | | | |

Additional Instructions:

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

viside in cooler

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

| | | | | | | |
|---|-----------------------|-------------------|--|---------------------|-------------------|---|
| Relinquished by: (Signature) <u>Kevin</u> | Date <u>6/11/2019</u> | Time <u>10:45</u> | Received by: (Signature) <u>Courtney Small</u> | Date <u>6/11/19</u> | Time <u>10:45</u> | Lab Use Only Received on ice: <u>Y</u> / N T1 <u> </u> T2 <u> </u> T3 <u> </u> AVG Temp °C <u>4</u> |
| Relinquished by: (Signature) <u>FedEx</u> | Date <u>6/12/19</u> | Time <u>10:00</u> | Received by: (Signature) <u>Jessica M. M.</u> | Date <u>6/12/19</u> | Time <u>10:00</u> | |

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.



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:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light pink rectangular background.

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) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.7 % | | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 100 % | | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | | 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 | |
| Surrogate: n-Nonane | | 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 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.7 % | | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Toluene-d8 | | 100 % | | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D | |
| Surrogate: Bromofluorobenzene | | 98.8 % | | 70-130 | 1924024 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

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

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 103 % | | 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 | | 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 | | 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 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 103 % | | 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 | | 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 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.5 % | | 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 | | 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 | |
| Surrogate: n-Nonane | | 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 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.5 % | | 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 | | 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 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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 | 1070 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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 | 1590 | 20.0 | mg/kg | 1 | 1924032 | 06/12/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 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) | Project Name: | Ross Draw Unit #57 | Reported: 06/18/19 13:28 |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

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

Additional Instructions:

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

| | | | | | | |
|---|---------------------|-------------------|--|---------------------|-------------------|-----------------------------|
| Relinquished by: (Signature) <u>Kevin Arana</u> | Date <u>6/11/19</u> | Time <u>10:46</u> | Received by: (Signature) <u>Courtney Small</u> | Date <u>6/11/19</u> | Time <u>10:46</u> | Lab Use Only |
| Relinquished by: (Signature) <u>FedEx</u> | Date <u>6/12/19</u> | Time <u>10:00</u> | Received by: (Signature) <u>Jessica M...</u> | Date <u>6/12/19</u> | Time <u>10:00</u> | Received on ice: <u>Y</u> N |
| | | | | | | T1 <u>4</u> T2 T3 |
| | | | | | | AVG Temp °C <u>4</u> |

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.



5795 US Highway 64, Farmington, NM 87401
24 Hour Emergency Response Phone: (800) 362-1879

Ph (505) 632-1881 Fx (505) 632-1865

envirotech-inc.com
labadmin@envirotech-inc.com

| | | | | | | | | | | | | | |
|-----------------------------------|------------------|------------------|------------------------|------------------------------|--------------|-------------|-------------|----------------|-----------|----|----|----|----|
| Client: <u>WPX Carlsbad</u> | Report Attention | Lab Use Only | | TAT | | EPA Program | | | | | | | |
| Project: <u>ROSS DRAW UNIT#57</u> | | Report due by: | Lab WO# <u>P906044</u> | Job Number <u>04108-0369</u> | 1D | 3D | RCRA | CWA | SDWA | | | | |
| Project Manager: <u>KRIS ROWE</u> | | Attention: | Analysis and Method | | | State | | | | | | | |
| Address: <u>on file</u> | | Address: | DRO/DRO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | TPH 418.1 | NM | CO | UT | AZ |
| City, State, Zip | | City, State, Zip | Remarks | | | | | | | | | | |
| Phone: | Phone: | | | | | | | | | | | | |
| Email: | Email: | | | | | | | | | | | | |

| Time Sampled | Date Sampled | Matrix | No Containers | Sample ID | Lab Number | DRO/DRO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | TPH 418.1 | | | | | | | |
|--------------|--------------|--------|---------------|-----------|------------|-----------------|-----------------|--------------|-------------|-------------|----------------|-----------|--|--|--|--|--|--|--|
| | 6/10/19 | soil | 1 | SP 51 | 11 | X | X | X | | | X | | | | | | | | |
| | | | | SP 52 | 12 | | | | | | | | | | | | | | |
| | | | | SP 53 | 13 | | | | | | | | | | | | | | |
| | | | | SP 54 | 14 | | | | | | | | | | | | | | |
| | | | | SP 55 | 15 | | | | | | | | | | | | | | |
| | | | | SP 56 | 16 | | | | | | | | | | | | | | |
| | | | | SP 57 | 17 | | | | | | | | | | | | | | |
| | | | | SP 58 | 18 | | | | | | | | | | | | | | |
| | | | | SP 59 | 19 | | | | | | | | | | | | | | |
| | | | | SP 60 | 20 | | | | | | | | | | | | | | |

Additional Instructions:

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

| | | | | | | | |
|--|-----------------------|-------------------|---|---------------------|-------------------|--|----|
| Relinquished by: (Signature) <u>Kevin</u> | Date <u>6/11/2019</u> | Time <u>10:40</u> | Received by: (Signature) <u>Courtney Small</u> | Date <u>6/11/19</u> | Time <u>10:45</u> | Lab Use Only | |
| Relinquished by: (Signature) <u>Fed Ex</u> | Date <u>6/12/19</u> | Time <u>10:00</u> | Received by: (Signature) <u>Jessie A. McPherson</u> | Date <u>6/12/19</u> | Time <u>10:00</u> | Received on ice: <u>Y</u> / N | |
| | | | | | | T1 | T2 |
| | | | | | | AVG Temp °C <u>4</u> | T3 |
| 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.



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 6/12/2019

Job Number: 04108-0369

Work Order: P906045

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

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 12:20

Analytical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| SP61 | P906045-01A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP62 | P906045-02A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP63 | P906045-03A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP64 | P906045-04A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP65 | P906045-05A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP66 | P906045-06A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP67 | P906045-07A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP68 | P906045-08A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP69 | P906045-09A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP70 | P906045-10A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP71 | P906045-11A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP72 | P906045-12A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP73 | P906045-13A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP74 | P906045-14A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP75 | P906045-15A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP76 | P906045-16A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP77 | P906045-17A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP78 | P906045-18A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP79 | P906045-19A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP80 | P906045-20A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP61**P906045-01 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 97.0 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 102 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 103 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 1310 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP62**P906045-02 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 96.1 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 100 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 102 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 512 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP63**P906045-03 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 95.6 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 99.7 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 102 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 396 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP64**P906045-04 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 96.5 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 101 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 104 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 859 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP65**P906045-05 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 98.2 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 100 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 103 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 310 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP66**P906045-06 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 97.1 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 98.4 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 102 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 989 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP67
P906045-07 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 98.0 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 103 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 102 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 243 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP68**P906045-08 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 97.2 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 102 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 102 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 323 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP69**P906045-09 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 97.4 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 102 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 103 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 920 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP70
P906045-10 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 98.7 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 99.3 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 102 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 853 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP71**P906045-11 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 99.1 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 99.7 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 103 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 336 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP72
P906045-12 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 99.7 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 101 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 103 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 568 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP73
P906045-13 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 99.1 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 101 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 101 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 515 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP74**P906045-14 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 99.4 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 102 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 103 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 196 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP75
P906045-15 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 100 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 99.3 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 101 % | | 50-150 | 1924025 | 06/12/19 | 06/14/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 250 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP76**P906045-16 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 99.4 % | | 50-150 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|------|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | 34.2 | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 101 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 103 % | | 50-150 | 1924025 | 06/12/19 | 06/15/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 3430 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP77
P906045-17 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 101 % | | 50-150 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 104 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 101 % | | 50-150 | 1924025 | 06/12/19 | 06/15/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 1480 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP78**P906045-18 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 100 % | | 50-150 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 102 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 102 % | | 50-150 | 1924025 | 06/12/19 | 06/15/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 6150 | 40.0 | mg/kg | 2 | 1924037 | 06/13/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP79**P906045-19 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 99.7 % | | 50-150 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 102 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 102 % | | 50-150 | 1924025 | 06/12/19 | 06/15/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 7720 | 40.0 | mg/kg | 2 | 1924037 | 06/13/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

SP80
P906045-20 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 99.9 % | | 50-150 | 1924025 | 06/12/19 | 06/15/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 103 % | | 50-200 | 1924031 | 06/12/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924025 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 102 % | | 50-150 | 1924025 | 06/12/19 | 06/15/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 226 | 20.0 | mg/kg | 1 | 1924037 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

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

Batch 1924025 - Purge and Trap EPA 5030A

Blank (1924025-BLK1)

Prepared: 06/12/19 1 Analyzed: 06/15/19 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: 4-Bromochlorobenzene-PID 7.97 " 8.00 99.6 50-150

LCS (1924025-BS1)

Prepared: 06/12/19 1 Analyzed: 06/15/19 0

| | | | | | | | | | | |
|---------------|------|--------|-------|------|--|------|--------|--|--|--|
| Benzene | 4.46 | 0.0250 | mg/kg | 5.00 | | 89.2 | 70-130 | | | |
| Toluene | 4.86 | 0.0250 | " | 5.00 | | 97.3 | 70-130 | | | |
| Ethylbenzene | 4.84 | 0.0250 | " | 5.00 | | 96.7 | 70-130 | | | |
| p,m-Xylene | 9.93 | 0.0500 | " | 10.0 | | 99.3 | 70-130 | | | |
| o-Xylene | 4.83 | 0.0250 | " | 5.00 | | 96.6 | 70-130 | | | |
| Total Xylenes | 14.8 | 0.0250 | " | 15.0 | | 98.4 | 70-130 | | | |

Surrogate: 4-Bromochlorobenzene-PID 8.04 " 8.00 101 50-150

Matrix Spike (1924025-MS1)

Source: P906045-01

Prepared: 06/12/19 1 Analyzed: 06/15/19 0

| | | | | | | | | | | |
|---------------|------|--------|-------|------|----|------|----------|--|--|--|
| Benzene | 4.44 | 0.0250 | mg/kg | 5.00 | ND | 88.8 | 54.3-133 | | | |
| Toluene | 4.84 | 0.0250 | " | 5.00 | ND | 96.8 | 61.4-130 | | | |
| Ethylbenzene | 4.81 | 0.0250 | " | 5.00 | ND | 96.2 | 61.4-133 | | | |
| p,m-Xylene | 9.89 | 0.0500 | " | 10.0 | ND | 98.9 | 63.3-131 | | | |
| o-Xylene | 4.82 | 0.0250 | " | 5.00 | ND | 96.3 | 63.3-131 | | | |
| Total Xylenes | 14.7 | 0.0250 | " | 15.0 | ND | 98.0 | 63.3-131 | | | |

Surrogate: 4-Bromochlorobenzene-PID 8.04 " 8.00 101 50-150

Matrix Spike Dup (1924025-MSD1)

Source: P906045-01

Prepared: 06/12/19 1 Analyzed: 06/15/19 0

| | | | | | | | | | | |
|---------------|------|--------|-------|------|----|------|----------|-------|----|--|
| Benzene | 4.46 | 0.0250 | mg/kg | 5.00 | ND | 89.2 | 54.3-133 | 0.492 | 20 | |
| Toluene | 4.87 | 0.0250 | " | 5.00 | ND | 97.3 | 61.4-130 | 0.507 | 20 | |
| Ethylbenzene | 4.84 | 0.0250 | " | 5.00 | ND | 96.9 | 61.4-133 | 0.669 | 20 | |
| p,m-Xylene | 9.95 | 0.0500 | " | 10.0 | ND | 99.5 | 63.3-131 | 0.595 | 20 | |
| o-Xylene | 4.85 | 0.0250 | " | 5.00 | ND | 96.9 | 63.3-131 | 0.648 | 20 | |
| Total Xylenes | 14.8 | 0.0250 | " | 15.0 | ND | 98.6 | 63.3-131 | 0.612 | 20 | |

Surrogate: 4-Bromochlorobenzene-PID 8.00 " 8.00 100 50-150

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 06/18/19 12:20 |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

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 1924031 - DRO Extraction EPA 3570

Blank (1924031-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 | 54.3 | | " | 50.0 | | 109 | 50-200 | | | |

LCS (1924031-BS1)

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

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 532 | 25.0 | mg/kg | 500 | | 106 | 38-132 | | | |
| Surrogate: n-Nonane | 56.6 | | " | 50.0 | | 113 | 50-200 | | | |

Matrix Spike (1924031-MS1)

Source: P906045-01

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

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|----|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 306 | 25.0 | mg/kg | 500 | ND | 61.2 | 38-132 | | | |
| Surrogate: n-Nonane | 51.6 | | " | 50.0 | | 103 | 50-200 | | | |

Matrix Spike Dup (1924031-MSD1)

Source: P906045-01

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

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|----|------|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 334 | 25.0 | mg/kg | 500 | ND | 66.8 | 38-132 | 8.78 | 20 | |
| Surrogate: n-Nonane | 49.9 | | " | 50.0 | | 99.7 | 50-200 | | | |

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

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 1924025 - Purge and Trap EPA 5030A

Blank (1924025-BLK1)

Prepared: 06/12/19 1 Analyzed: 06/15/19 0

| | | | | | | | | | | |
|---|------|------|-------|------|--|-----|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.08 | | " | 8.00 | | 101 | 50-150 | | | |

LCS (1924025-BS2)

Prepared: 06/12/19 1 Analyzed: 06/15/19 0

| | | | | | | | | | | |
|---|------|------|-------|------|--|-----|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 50.7 | 20.0 | mg/kg | 50.0 | | 101 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.16 | | " | 8.00 | | 102 | 50-150 | | | |

Matrix Spike (1924025-MS2)

Source: P906045-01

Prepared: 06/12/19 1 Analyzed: 06/15/19 0

| | | | | | | | | | | |
|---|------|------|-------|------|----|-----|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 50.1 | 20.0 | mg/kg | 50.0 | ND | 100 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.22 | | " | 8.00 | | 103 | 50-150 | | | |

Matrix Spike Dup (1924025-MSD2)

Source: P906045-01

Prepared: 06/12/19 1 Analyzed: 06/15/19 0

| | | | | | | | | | | |
|---|------|------|-------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 48.8 | 20.0 | mg/kg | 50.0 | ND | 97.6 | 70-130 | 2.63 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.16 | | " | 8.00 | | 102 | 50-150 | | | |

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:20 |

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 1924037 - Anion Extraction EPA 300.0/9056A**Blank (1924037-BLK1)**

Prepared & Analyzed: 06/13/19 1

| | | | |
|----------|----|------|-------|
| Chloride | ND | 20.0 | mg/kg |
|----------|----|------|-------|

LCS (1924037-BS1)

Prepared & Analyzed: 06/13/19 1

| | | | | | | |
|----------|-----|------|-------|-----|-----|--------|
| Chloride | 252 | 20.0 | mg/kg | 250 | 101 | 90-110 |
|----------|-----|------|-------|-----|-----|--------|

Matrix Spike (1924037-MS1)**Source: P906045-01**

Prepared & Analyzed: 06/13/19 1

| | | | | | | | | |
|----------|------|------|-------|-----|------|----|--------|------|
| Chloride | 1280 | 20.0 | mg/kg | 250 | 1310 | NR | 80-120 | SPK1 |
|----------|------|------|-------|-----|------|----|--------|------|

Matrix Spike Dup (1924037-MSD1)**Source: P906045-01**

Prepared & Analyzed: 06/13/19 1

| | | | | | | | | | |
|----------|------|------|-------|-----|------|------|--------|------|----|
| Chloride | 1530 | 20.0 | mg/kg | 250 | 1310 | 88.8 | 80-120 | 18.1 | 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) | Project Name: | Ross Draw Unit #57 | Reported: 06/18/19 12:20 |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

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> Project: <u>ROSS DRAW Unit #57</u> Project Manager: <u>KRIS ROWE</u> Address: <u>on file</u> City, State, Zip: <u>↓</u> Phone: <u>↓</u> Email: <u>↓</u> | | | | Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ | | | | Lab Use Only Lab WO# <u>P906045</u> Job Number <u>04108-0369</u> Analysis and Method: _____ DRO/ORO by 8015 _____ GRO/DRO by 8015 _____ BTEX by 8021 _____ VOC by 8260 _____ Metals 6010 _____ Chloride 300.0 _____ | | | | TAT 1D _____ 3D _____ | | EPA Program RCRA _____ CWA _____ SDWA _____ State: _____ NM _____ CO _____ UT _____ AZ _____ Remarks: _____ | | | |
|---|--------------|--------|---------------|--|------------|-----------------|-----------------|--|-------------|-------------|----------------|---------------------------------|----|--|-----|------|--|
| 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 | 1D | 3D | RCRA | CWA | SDWA | |
| | 6/10/19 | soil | 1 | SP61 | 1 | X | X | X | | | X | | | | | | |
| | | | | SP62 | 2 | | | | | | | | | | | | |
| | | | | SP63 | 3 | | | | | | | | | | | | |
| | | | | SP64 | 4 | | | | | | | | | | | | |
| | | | | SP65 | 5 | | | | | | | | | | | | |
| | | | | SP66 | 6 | | | | | | | | | | | | |
| | | | | SP67 | 7 | | | | | | | | | | | | |
| | | | | SP68 | 8 | | | | | | | | | | | | |
| | | | | SP69 | 9 | | | | | | | | | | | | |
| | ↓ | ↓ | ↓ | SP70 | 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: <u>Kerr</u> Relinquished by: (Signature) <u>Kerr</u> Date <u>6/11/2019</u> Time <u>10:46</u> Received by: (Signature) <u>Courtney Stovall</u> Date <u>6/11/19</u> Time <u>10:46</u> Relinquished by: (Signature) <u>Fed Ex</u> Date <u>6/12/19</u> Time <u>10:00</u> Received by: (Signature) <u>Jessie A. Myff</u> Date <u>6/12/19</u> Time <u>10:00</u> 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. | | | | | | | | | | | | | | | | | |



envirotech
Analytical Laboratory

envirotech-inc.com
labadmin@envirotech-inc.com



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 6/12/2019

Job Number: 04108-0369

Work Order: P906046

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light pink rectangular background.

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 12:51

Analytical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| SP81 | P906046-01A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP82 | P906046-02A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP83 | P906046-03A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP84 | P906046-04A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP85 | P906046-05A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP86 | P906046-06A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP87 | P906046-07A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP88 | P906046-08A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP89 | P906046-09A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP90 | P906046-10A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP91 | P906046-11A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP92 | P906046-12A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP93 | P906046-13A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP94 | P906046-14A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP95 | P906046-15A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP96 | P906046-16A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

SP81**P906046-01 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 98.8 % | | 50-150 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|------|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | 43.7 | 25.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 102 % | | 50-200 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 103 % | | 50-150 | 1924026 | 06/12/19 | 06/15/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 2690 | 20.0 | mg/kg | 1 | 1924041 | 06/13/19 | 06/13/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

SP82**P906046-02 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 99.5 % | | 50-150 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 102 % | | 50-200 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 102 % | | 50-150 | 1924026 | 06/12/19 | 06/15/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 287 | 20.0 | mg/kg | 1 | 1924041 | 06/13/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

SP83**P906046-03 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 99.7 % | | 50-150 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 100 % | | 50-200 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 101 % | | 50-150 | 1924026 | 06/12/19 | 06/15/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 70.3 | 20.0 | mg/kg | 1 | 1924041 | 06/13/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

SP84**P906046-04 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 100 % | | 50-150 | 1924026 | 06/12/19 | 06/15/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 101 % | | 50-200 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924026 | 06/12/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 100 % | | 50-150 | 1924026 | 06/12/19 | 06/15/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 297 | 20.0 | mg/kg | 1 | 1924041 | 06/13/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

SP85**P906046-05 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 99.5 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 103 % | | 50-200 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 99.9 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 307 | 20.0 | mg/kg | 1 | 1924041 | 06/13/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

SP86**P906046-06 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 99.5 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 104 % | | 50-200 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 100 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 462 | 20.0 | mg/kg | 1 | 1924041 | 06/13/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

SP87**P906046-07 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 98.9 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 102 % | | 50-200 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 101 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 628 | 20.0 | mg/kg | 1 | 1924041 | 06/13/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

SP88**P906046-08 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 100 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 102 % | | 50-200 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 101 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 381 | 20.0 | mg/kg | 1 | 1924041 | 06/13/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

SP89**P906046-09 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 99.8 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 103 % | | 50-200 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 101 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 206 | 20.0 | mg/kg | 1 | 1924041 | 06/13/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

SP90
P906046-10 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 99.3 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 102 % | | 50-200 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 101 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 597 | 20.0 | mg/kg | 1 | 1924041 | 06/13/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

SP91**P906046-11 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 99.6 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 102 % | | 50-200 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 101 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 2070 | 20.0 | mg/kg | 1 | 1924041 | 06/13/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|-----------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

SP92
P906046-12 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 99.4 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 101 % | | 50-200 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 102 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 691 | 20.0 | mg/kg | 1 | 1924041 | 06/13/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

SP93**P906046-13 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 99.2 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|-----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | 108 | 25.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 103 % | | 50-200 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 100 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 4000 | 20.0 | mg/kg | 1 | 1924041 | 06/13/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

SP94**P906046-14 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 98.1 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 107 % | | 50-200 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 102 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 218 | 20.0 | mg/kg | 1 | 1924041 | 06/13/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

SP95
P906046-15 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|---------------|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Ethylbenzene | 0.0263 | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 98.9 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|-------------|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | 3820 | 125 | mg/kg | 5 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | 674 | 250 | mg/kg | 5 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 117 % | | 50-200 | 1924034 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 101 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 655 | 20.0 | mg/kg | 1 | 1924041 | 06/13/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

SP96**P906046-16 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 98.3 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/18/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924034 | 06/13/19 | 06/18/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 102 % | | 50-200 | 1924034 | 06/13/19 | 06/18/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 101 % | | 50-150 | 1924026 | 06/12/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 604 | 20.0 | mg/kg | 1 | 1924041 | 06/13/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

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

Batch 1924026 - Purge and Trap EPA 5030A

Blank (1924026-BLK1)

Prepared: 06/12/19 1 Analyzed: 06/15/19 1

| | | | | | | | | | | |
|-------------------------------------|------|--------|-------|------|--|------|--------|--|--|--|
| 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: 4-Bromochlorobenzene-PID | 7.86 | | " | 8.00 | | 98.2 | 50-150 | | | |

LCS (1924026-BS1)

Prepared: 06/12/19 1 Analyzed: 06/15/19 1

| | | | | | | | | | | |
|-------------------------------------|------|--------|-------|------|--|------|--------|--|--|--|
| Benzene | 3.94 | 0.0250 | mg/kg | 5.00 | | 78.7 | 70-130 | | | |
| Toluene | 4.28 | 0.0250 | " | 5.00 | | 85.7 | 70-130 | | | |
| Ethylbenzene | 4.28 | 0.0250 | " | 5.00 | | 85.5 | 70-130 | | | |
| p,m-Xylene | 8.81 | 0.0500 | " | 10.0 | | 88.1 | 70-130 | | | |
| o-Xylene | 4.28 | 0.0250 | " | 5.00 | | 85.7 | 70-130 | | | |
| Total Xylenes | 13.1 | 0.0250 | " | 15.0 | | 87.3 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.79 | | " | 8.00 | | 97.4 | 50-150 | | | |

Matrix Spike (1924026-MS1)

Source: P906046-01

Prepared: 06/12/19 1 Analyzed: 06/15/19 2

| | | | | | | | | | | |
|-------------------------------------|------|--------|-------|------|----|------|----------|--|--|--|
| Benzene | 4.16 | 0.0250 | mg/kg | 5.00 | ND | 83.2 | 54.3-133 | | | |
| Toluene | 4.52 | 0.0250 | " | 5.00 | ND | 90.4 | 61.4-130 | | | |
| Ethylbenzene | 4.51 | 0.0250 | " | 5.00 | ND | 90.2 | 61.4-133 | | | |
| p,m-Xylene | 9.28 | 0.0500 | " | 10.0 | ND | 92.8 | 63.3-131 | | | |
| o-Xylene | 4.51 | 0.0250 | " | 5.00 | ND | 90.2 | 63.3-131 | | | |
| Total Xylenes | 13.8 | 0.0250 | " | 15.0 | ND | 91.9 | 63.3-131 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.90 | | " | 8.00 | | 98.8 | 50-150 | | | |

Matrix Spike Dup (1924026-MSD1)

Source: P906046-01

Prepared: 06/12/19 1 Analyzed: 06/15/19 2

| | | | | | | | | | | |
|-------------------------------------|------|--------|-------|------|----|------|----------|------|----|--|
| Benzene | 4.03 | 0.0250 | mg/kg | 5.00 | ND | 80.5 | 54.3-133 | 3.25 | 20 | |
| Toluene | 4.40 | 0.0250 | " | 5.00 | ND | 88.0 | 61.4-130 | 2.72 | 20 | |
| Ethylbenzene | 4.38 | 0.0250 | " | 5.00 | ND | 87.7 | 61.4-133 | 2.87 | 20 | |
| p,m-Xylene | 9.03 | 0.0500 | " | 10.0 | ND | 90.3 | 63.3-131 | 2.69 | 20 | |
| o-Xylene | 4.38 | 0.0250 | " | 5.00 | ND | 87.6 | 63.3-131 | 2.88 | 20 | |
| Total Xylenes | 13.4 | 0.0250 | " | 15.0 | ND | 89.4 | 63.3-131 | 2.75 | 20 | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.00 | | " | 8.00 | | 100 | 50-150 | | | |

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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 12:51

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 1924034 - DRO Extraction EPA 3570

Blank (1924034-BLK1)

Prepared: 06/13/19 0 Analyzed: 06/18/19 1

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | | | | | | | |
| Oil Range Organics (C28-C40) | ND | 50.0 | " | | | | | | | |
| Surrogate: n-Nonane | 50.6 | | " | 50.0 | | 101 | 50-200 | | | |

LCS (1924034-BS1)

Prepared: 06/13/19 0 Analyzed: 06/17/19 1

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 451 | 25.0 | mg/kg | 500 | | 90.2 | 38-132 | | | |
| Surrogate: n-Nonane | 47.6 | | " | 50.0 | | 95.3 | 50-200 | | | |

Matrix Spike (1924034-MS1)

Source: P906046-01

Prepared: 06/13/19 0 Analyzed: 06/17/19 1

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|------|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 453 | 25.0 | mg/kg | 500 | 43.7 | 81.8 | 38-132 | | | |
| Surrogate: n-Nonane | 50.4 | | " | 50.0 | | 101 | 50-200 | | | |

Matrix Spike Dup (1924034-MSD1)

Source: P906046-01

Prepared: 06/13/19 0 Analyzed: 06/17/19 2

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|------|------|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 522 | 25.0 | mg/kg | 500 | 43.7 | 95.7 | 38-132 | 14.2 | 20 | |
| Surrogate: n-Nonane | 50.5 | | " | 50.0 | | 101 | 50-200 | | | |

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

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 1924026 - Purge and Trap EPA 5030A

Blank (1924026-BLK1)

Prepared: 06/12/19 1 Analyzed: 06/15/19 1

| | | | | | | | | | | |
|---|------|------|-------|------|--|-----|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.18 | | " | 8.00 | | 102 | 50-150 | | | |

LCS (1924026-BS2)

Prepared: 06/12/19 1 Analyzed: 06/15/19 1

| | | | | | | | | | | |
|---|------|------|-------|------|--|-----|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 50.2 | 20.0 | mg/kg | 50.0 | | 100 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.30 | | " | 8.00 | | 104 | 50-150 | | | |

Matrix Spike (1924026-MS2)

Source: P906046-01

Prepared: 06/12/19 1 Analyzed: 06/15/19 2

| | | | | | | | | | | |
|---|------|------|-------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 48.4 | 20.0 | mg/kg | 50.0 | ND | 96.9 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.06 | | " | 8.00 | | 101 | 50-150 | | | |

Matrix Spike Dup (1924026-MSD2)

Source: P906046-01

Prepared: 06/12/19 1 Analyzed: 06/15/19 2

| | | | | | | | | | | |
|---|------|------|-------|------|----|------|--------|-------|----|--|
| Gasoline Range Organics (C6-C10) | 48.0 | 20.0 | mg/kg | 50.0 | ND | 96.0 | 70-130 | 0.955 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.14 | | " | 8.00 | | 102 | 50-150 | | | |

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 12:51 |

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 1924041 - Anion Extraction EPA 300.0/9056A**Blank (1924041-BLK1)**

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

| | | | | | | | | | | |
|----------|----|------|-------|--|--|--|--|--|--|--|
| Chloride | ND | 20.0 | mg/kg | | | | | | | |
|----------|----|------|-------|--|--|--|--|--|--|--|

LCS (1924041-BS1)

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

| | | | | | | | | | | |
|----------|-----|------|-------|-----|--|-----|--------|--|--|--|
| Chloride | 274 | 20.0 | mg/kg | 250 | | 109 | 90-110 | | | |
|----------|-----|------|-------|-----|--|-----|--------|--|--|--|

Matrix Spike (1924041-MS1)**Source: P906046-01**

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

| | | | | | | | | | | |
|----------|------|------|-------|-----|------|------|--------|--|--|------|
| Chloride | 2860 | 20.0 | mg/kg | 250 | 2690 | 67.8 | 80-120 | | | SPK1 |
|----------|------|------|-------|-----|------|------|--------|--|--|------|

Matrix Spike Dup (1924041-MSD1)**Source: P906046-01**

Prepared: 06/13/19 1 Analyzed: 06/14/19 0

| | | | | | | | | | | |
|----------|------|------|-------|-----|------|-----|--------|------|----|------|
| Chloride | 3030 | 20.0 | mg/kg | 250 | 2690 | 137 | 80-120 | 5.90 | 20 | SPK1 |
|----------|------|------|-------|-----|------|-----|--------|------|----|------|

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 12:51

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> Project: <u>ROSS Draw Unit #57</u> Project Manager: <u>KRIS ROWE</u> Address: <u>on file</u> City, State, Zip: <u>↓</u> Phone: <u>↓</u> Email: <u>↓</u> | | | | Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ | | | | Lab Use Only Lab WO# <u>P906046</u> Job Number <u>04108-0369</u> Analysis and Method: _____ DRO/DRO by 8015: <u>X</u> GRO/DRO by 8015: <u>X</u> BTEX by 8021: <u>X</u> VOC by 8260: <u> </u> Metals 6010: <u> </u> Chloride 300.0: <u>X</u> | | | | | | TAT 1D <u> </u> 3D <u> </u> | | EPA Program RCRA <u> </u> CWA <u> </u> SDWA <u> </u> State: <u> </u> NM <u>X</u> CO <u> </u> UT <u> </u> AZ <u> </u> Remarks: _____ | | | |
|---|--------------|--------|---------------|--|------------|-----------------|-----------------|---|-------------|-------------|----------------|--|--|---|--|---|--|--|--|
| Time Sampled | Date Sampled | Matrix | No Containers | Sample ID | Lab Number | DRO/DRO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | | | | | | | | |
| | 6/10/19 | soil | 1 | SP 81 | 1 | X | X | X | | | X | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 82 | 2 | | | | | | | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 83 | 3 | | | | | | | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 84 | 4 | | | | | | | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 85 | 5 | | | | | | | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 86 | 6 | | | | | | | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 87 | 7 | | | | | | | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 88 | 8 | | | | | | | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 89 | 9 | | | | | | | | | | | | | | |
| | ↓ | ↓ | ↓ | SP 90 | 10 | ↓ | ↓ | ↓ | | | ↓ | | | | | | | | |

Additional Instructions:

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. ice in cooler

| | | | | | | | | | |
|---|--|---------------------|-------------------|--|--|---------------------|-------------------|---|--|
| Relinquished by: (Signature) <u>Kevin</u> | | Date <u>6/11/19</u> | Time <u>10:46</u> | Received by: (Signature) <u>Partners</u> | | Date <u>6/11/19</u> | Time <u>10:46</u> | Lab Use Only Received on ice: <u>Y</u> / N T1 <u> </u> T2 <u> </u> T3 <u> </u> AVG Temp °C <u>4</u> | |
| Relinquished by: (Signature) <u>Kevin</u> | | Date <u>6/12/19</u> | Time <u>10:00</u> | Received by: (Signature) <u>Kevin</u> | | Date <u>6/12/19</u> | Time <u>10:00</u> | | |

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.


 5796 US Highway 64, Farmington, NM 87401 Ph (505) 632-1881 Fx (505) 632-1865 envirotech-inc.com
 24 Hour Emergency Response Phone (800) 362-1879 labadmin@envirotech-inc.com



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 6/12/2019

Job Number: 04108-0369

Work Order: P906047

Project Name/Location: Ross Draw Unit #57

Draft

Report Reviewed By:

Walter Hinchman, Laboratory Director

Date: 6/18/19



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 16:46

Analytical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| SP97 | P906047-01A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP98 | P906047-02A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP99 | P906047-03A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP100 | P906047-04A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP101 | P906047-05A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP102 | P906047-06A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SP103 | P906047-07A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SW1 | P906047-08A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SW2 | P906047-09A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SW3 | P906047-10A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SW4 | P906047-11A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SW5 | P906047-12A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SW6 | P906047-13A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SW7 | P906047-14A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SW8 | P906047-15A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SW9 | P906047-16A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SW10 | P906047-17A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SW11 | P906047-18A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |
| SW12 | P906047-19A | Soil | 06/10/19 | 06/12/19 | Glass Jar, 4 oz. |

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 16:46 |

SP97**P906047-01 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 101 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 98.5 % | | 50-200 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 103 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 288 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 16:46 |

SP98**P906047-02 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 102 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 97.9 % | | 50-200 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 102 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 281 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 16:46 |

SP99**P906047-03 (Solid)**

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 101 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 99.0 % | | 50-200 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 103 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 295 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 16:46 |

SP100
P906047-04 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 98.9 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 98.8 % | | 50-200 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 103 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 24.6 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 16:46 |

SP101
P906047-05 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 99.8 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|-----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | 146 | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 96.6 % | | 50-200 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 102 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 358 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 16:46 |

SP102
P906047-06 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 97.0 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|------|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | 44.5 | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 97.2 % | | 50-200 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 104 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 1800 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 16:46 |

SP103
P906047-07 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 97.8 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 102 % | | 50-200 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 105 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 46.3 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 16:46 |

SW1
P906047-08 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 98.6 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|------|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | 50.2 | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 101 % | | 50-200 | 1924035 | 06/13/19 | 06/15/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 106 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 3210 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 16:46 |

SW2
P906047-09 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 98.0 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|------|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | 71.4 | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 99.8 % | | 50-200 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 104 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 1720 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 16:46 |

SW3
P906047-10 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 98.0 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|-----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | 119 | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 98.0 % | | 50-200 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 105 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | 873 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|-----------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 16:46 |

SW4
P906047-11 (Solid)

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

Volatile Organics by EPA 8021

| | | | | | | | | | |
|--|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 98.3 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8021B | |

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| <i>Surrogate: n-Nonane</i> | | 98.2 % | | 50-200 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|--|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 105 % | | 50-150 | 1924033 | 06/13/19 | 06/18/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 1540 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 06/18/19 16:46 |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SW5**P906047-12 (Solid)**

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

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Surrogate: <i>n</i> -Nonane | | 101 % | | 50-200 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 925 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/14/19 | 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 16:46

SW6
P906047-13 (Solid)

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

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|------|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | 39.0 | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Surrogate: <i>n</i> -Nonane | | 96.7 % | | 50-200 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 447 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/14/19 | 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 16:46

SW7
P906047-14 (Solid)

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

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|------|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | 48.8 | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Surrogate: <i>n</i> -Nonane | | 98.1 % | | 50-200 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 826 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 16:46 |

SW8**P906047-15 (Solid)**

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

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Surrogate: <i>n</i> -Nonane | | 98.4 % | | 50-200 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 397 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/14/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 16:46 |

SW9**P906047-16 (Solid)**

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

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|-------------|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | 196 | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | 54.8 | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Surrogate: <i>n</i> -Nonane | | 97.0 % | | 50-200 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 3880 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/15/19 | EPA 300.0/9056A | |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 06/18/19 16:46 |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SW10
P906047-17 (Solid)

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

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|------|--------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | 37.8 | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Surrogate: <i>n</i> -Nonane | | 98.3 % | | 50-200 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 313 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/15/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 16:46 |

SW11
P906047-18 (Solid)

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

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|-------------|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | 248 | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | 74.7 | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Surrogate: <i>n</i> -Nonane | | 106 % | | 50-200 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 4760 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/15/19 | EPA 300.0/9056A | |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 16:46 |

SW12
P906047-19 (Solid)

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

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|-------------|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | 61.2 | 25.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |
| Surrogate: <i>n</i> -Nonane | | 103 % | | 50-200 | 1924035 | 06/13/19 | 06/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 1470 | 20.0 | mg/kg | 1 | 1924055 | 06/14/19 | 06/15/19 | EPA 300.0/9056A | |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 16:46 |

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

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

Batch 1924033 - Purge and Trap EPA 5030A

Blank (1924033-BLK1)

Prepared: 06/13/19 0 Analyzed: 06/18/19 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: 4-Bromochlorobenzene-PID 8.01 " 8.00 100 50-150

LCS (1924033-BS1)

Prepared: 06/13/19 0 Analyzed: 06/18/19 0

| | | | | | | | | | | |
|---------------|------|--------|-------|------|--|------|--------|--|--|--|
| Benzene | 4.32 | 0.0250 | mg/kg | 5.00 | | 86.3 | 70-130 | | | |
| Toluene | 4.76 | 0.0250 | " | 5.00 | | 95.1 | 70-130 | | | |
| Ethylbenzene | 4.76 | 0.0250 | " | 5.00 | | 95.2 | 70-130 | | | |
| p,m-Xylene | 9.80 | 0.0500 | " | 10.0 | | 98.0 | 70-130 | | | |
| o-Xylene | 4.78 | 0.0250 | " | 5.00 | | 95.6 | 70-130 | | | |
| Total Xylenes | 14.6 | 0.0250 | " | 15.0 | | 97.2 | 70-130 | | | |

Surrogate: 4-Bromochlorobenzene-PID 8.09 " 8.00 101 50-150

Matrix Spike (1924033-MS1)

Source: P906047-01

Prepared: 06/13/19 0 Analyzed: 06/18/19 0

| | | | | | | | | | | |
|---------------|------|--------|-------|------|----|------|----------|--|--|--|
| Benzene | 4.06 | 0.0250 | mg/kg | 5.00 | ND | 81.2 | 54.3-133 | | | |
| Toluene | 4.47 | 0.0250 | " | 5.00 | ND | 89.3 | 61.4-130 | | | |
| Ethylbenzene | 4.46 | 0.0250 | " | 5.00 | ND | 89.2 | 61.4-133 | | | |
| p,m-Xylene | 9.18 | 0.0500 | " | 10.0 | ND | 91.8 | 63.3-131 | | | |
| o-Xylene | 4.48 | 0.0250 | " | 5.00 | ND | 89.6 | 63.3-131 | | | |
| Total Xylenes | 13.7 | 0.0250 | " | 15.0 | ND | 91.0 | 63.3-131 | | | |

Surrogate: 4-Bromochlorobenzene-PID 8.12 " 8.00 101 50-150

Matrix Spike Dup (1924033-MSD1)

Source: P906047-01

Prepared: 06/13/19 0 Analyzed: 06/18/19 0

| | | | | | | | | | | |
|---------------|------|--------|-------|------|----|------|----------|------|----|--|
| Benzene | 3.87 | 0.0250 | mg/kg | 5.00 | ND | 77.4 | 54.3-133 | 4.85 | 20 | |
| Toluene | 4.27 | 0.0250 | " | 5.00 | ND | 85.3 | 61.4-130 | 4.59 | 20 | |
| Ethylbenzene | 4.27 | 0.0250 | " | 5.00 | ND | 85.5 | 61.4-133 | 4.23 | 20 | |
| p,m-Xylene | 8.81 | 0.0500 | " | 10.0 | ND | 88.1 | 63.3-131 | 4.05 | 20 | |
| o-Xylene | 4.30 | 0.0250 | " | 5.00 | ND | 85.9 | 63.3-131 | 4.12 | 20 | |
| Total Xylenes | 13.1 | 0.0250 | " | 15.0 | ND | 87.4 | 63.3-131 | 4.08 | 20 | |

Surrogate: 4-Bromochlorobenzene-PID 8.11 " 8.00 101 50-150

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 06/18/19 16:46 |

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 1924035 - DRO Extraction EPA 3570

Blank (1924035-BLK1)

Prepared: 06/13/19 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 | 49.0 | | " | 50.0 | | 98.0 | 50-200 | | | |

LCS (1924035-BS1)

Prepared: 06/13/19 1 Analyzed: 06/17/19 1

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 453 | 25.0 | mg/kg | 500 | | 90.6 | 38-132 | | | |
| Surrogate: n-Nonane | 50.2 | | " | 50.0 | | 100 | 50-200 | | | |

Matrix Spike (1924035-MS1)

Source: P906047-01

Prepared: 06/13/19 1 Analyzed: 06/17/19 2

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|----|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 310 | 25.0 | mg/kg | 500 | ND | 62.0 | 38-132 | | | |
| Surrogate: n-Nonane | 42.9 | | " | 50.0 | | 85.7 | 50-200 | | | |

Matrix Spike Dup (1924035-MSD1)

Source: P906047-01

Prepared: 06/13/19 1 Analyzed: 06/17/19 2

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|----|------|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 264 | 25.0 | mg/kg | 500 | ND | 52.8 | 38-132 | 16.0 | 20 | |
| Surrogate: n-Nonane | 49.5 | | " | 50.0 | | 99.0 | 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 16:46

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 1924033 - Purge and Trap EPA 5030A

Blank (1924033-BLK1)

Prepared: 06/13/19 0 Analyzed: 06/18/19 0

| | | | | | | | | | | |
|---|------|------|-------|------|--|-----|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.21 | | " | 8.00 | | 103 | 50-150 | | | |

LCS (1924033-BS2)

Prepared: 06/13/19 0 Analyzed: 06/18/19 0

| | | | | | | | | | | |
|---|------|------|-------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 48.2 | 20.0 | mg/kg | 50.0 | | 96.4 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.31 | | " | 8.00 | | 104 | 50-150 | | | |

Matrix Spike (1924033-MS2)

Source: P906047-01

Prepared: 06/13/19 0 Analyzed: 06/18/19 0

| | | | | | | | | | | |
|---|------|------|-------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 48.9 | 20.0 | mg/kg | 50.0 | ND | 97.9 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.20 | | " | 8.00 | | 103 | 50-150 | | | |

Matrix Spike Dup (1924033-MSD2)

Source: P906047-01

Prepared: 06/13/19 0 Analyzed: 06/18/19 0

| | | | | | | | | | | |
|---|------|------|-------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 47.7 | 20.0 | mg/kg | 50.0 | ND | 95.5 | 70-130 | 2.51 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.25 | | " | 8.00 | | 103 | 50-150 | | | |

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 06/18/19 16:46 |
| 5315 Buena Vista Dr | Project Number: | 04108-0369 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

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 1924055 - Anion Extraction EPA 300.0/9056A**Blank (1924055-BLK1)**

Prepared & Analyzed: 06/14/19 1

| | | | |
|----------|----|------|-------|
| Chloride | ND | 20.0 | mg/kg |
|----------|----|------|-------|

LCS (1924055-BS1)

Prepared & Analyzed: 06/14/19 1

| | | | | | | |
|----------|-----|------|-------|-----|-----|--------|
| Chloride | 255 | 20.0 | mg/kg | 250 | 102 | 90-110 |
|----------|-----|------|-------|-----|-----|--------|

Matrix Spike (1924055-MS1)**Source: P906047-01**

Prepared & Analyzed: 06/14/19 1

| | | | | | | | |
|----------|-----|------|-------|-----|-----|------|--------|
| Chloride | 511 | 20.0 | mg/kg | 250 | 288 | 89.1 | 80-120 |
|----------|-----|------|-------|-----|-----|------|--------|

Matrix Spike Dup (1924055-MSD1)**Source: P906047-01**

Prepared & Analyzed: 06/14/19 1

| | | | | | | | | | |
|----------|-----|------|-------|-----|-----|------|--------|------|----|
| Chloride | 499 | 20.0 | mg/kg | 250 | 288 | 84.3 | 80-120 | 2.40 | 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 16:46

Notes and Definitions

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 (Carlisle)</u> Project: <u>Ross Draw Unit #57</u> Project Manager: <u>Kris Rowe</u> Address: <u>on file</u> City, State, Zip: <u> </u> Phone: <u> </u> Email: <u> </u> | | | | Report Attention Report due by: <u> </u> Attention: <u> </u> Address: <u> </u> City, State, Zip: <u> </u> Phone: <u> </u> Email: <u> </u> | | | | Lab Use Only Lab WO# <u>P 906047</u> Job Number <u>04108-0369</u> Analysis and Method: <u> </u> | | | | TAT 1D <u> </u> 3D <u> </u> | | EPA Program RCRA <u> </u> CWA <u> </u> SDWA <u> </u> State: <u> </u> NM <u>X</u> CO <u> </u> UT <u> </u> AZ <u> </u> Remarks: <u> </u> | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|---|--|---|--|--|--|

| 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 | 1D | 3D | RCRA | CWA | SDWA | Remarks | |
|--------------|--------------|--------|---------------|-----------|------------|-----------------|-----------------|--------------|-------------|-------------|----------------|----|----|------|-----|------|---------|--|
| | 6/10/19 | Soil | 1 | SP97 | 1 | X | X | X | | | X | | | | | | | |
| | | | | SP98 | 2 | | | | | | | | | | | | | |
| | | | | SP99 | 3 | | | | | | | | | | | | | |
| | | | | SP100 | 4 | | | | | | | | | | | | | |
| | | | | SP101 | 5 | | | | | | | | | | | | | |
| | | | | SP102 | 6 | | | | | | | | | | | | | |
| | | | | SP103 | 7 | | | | | | | | | | | | | |
| | | | | SW1 | 8 | | | | | | | | | | | | | |
| | | | | SW2 | 9 | | | | | | | | | | | | | |
| | | | | SW3 | 10 | | | | | | | | | | | | | |

Additional Instructions:

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 Duna Date 6/11/19 Time 2:00p Received by: (Signature) Courtney Stovall Date 6/11/19 Time 2:00

Relinquished by: (Signature) FedEx Date 6/12/19 Time 10:00 Received by: (Signature) Justin A. Hoff 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.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|--|--|--|--|-------------------------------|--|--|--|--|------------------------|--|--|--|--|------------------------------|--|-------------|-----------------|--|-------|--|----|--|------|--|--------------|--|------|--|----|--|----|--|-------------|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|----------------|--|--|--|--|--|--|--|
| Client: <u>WPX Carlsbad</u> | | | | | Report Attention | | | | | Lab Use Only | | | | | TAT | | EPA Program | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project: <u>Ross Draw Unit #57</u> | | | | | Report due by: <u>on file</u> | | | | | Lab WO# <u>P906047</u> | | | | | Job Number <u>04108-0369</u> | | | | | 1D | | 3D | | RCRA | | CWA | | SDWA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: <u>Kniz Rave</u> | | | | | Attention: | | | | | Analysis and Method | | | | | | | | | | State | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: <u>on file</u> | | | | | Address: | | | | | | | | | | | | | | | NM | | | | | | | | CO | | UT | | AZ | | | | | | | | | | | | | | | | | | | | | | | | | |
| City, State, Zip | | | | | City, State, Zip | | | | | DRO/ORO by 8015 | | | | | | | | GRO/DRO by 8015 | | | | | | | | BTEX by 8021 | | | | | | | | VOC by 8260 | | | | | | | | Metals 6010 | | | | | | | | Chloride 300.0 | | | | | | | |
| Phone: | | | | | Phone: | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Email: | | | | | Email: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 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 | SW4 | 11 | X | X | X | | | X | | | | | | | | | | | | | | | | |
| | | | | SW5 | 12 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | SW6 | 13 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | SW7 | 14 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | SW8 | 15 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | SW9 | 16 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | SW10 | 17 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | SW11 | 18 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | SW12 | 19 | | | | | | | | | | | | | | | | | | | | | | |

Additional Instructions:

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) Kevin Date 6/11/19 Time 2:00p Received by: (Signature) Kevin Date 6/11/19 Time 2:00pm

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



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 7/13/2019

Job Number: 04108-0639

Work Order: P907036

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

Date: 7/17/19

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: 04108-0639
Project Manager: Kris Rowe

Reported:
07/17/19 14:32

Analytical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| SP1 | P907036-01A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP2 | P907036-02A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP3 | P907036-03A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP4 | P907036-04A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP5 | P907036-05A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP6 | P907036-06A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP9 | P907036-07A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP10 | P907036-08A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP11 | P907036-09A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP12 | P907036-10A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP20 | P907036-11A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP31 | P907036-12A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP34 | P907036-13A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP35 | P907036-14A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP38 | P907036-15A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP41 | P907036-16A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP42 | P907036-17A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP55 | P907036-18A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP57 | P907036-19A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP60 | P907036-20A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:32 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP1**P907036-01 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 563 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | 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: 04108-0639
Project Manager: Kris Rowe

Reported:
07/17/19 14:32

SP2

P907036-02 (Solid)

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 201 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:32 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP3**P907036-03 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 296 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:32 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP4**P907036-04 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 466 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:32 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP5**P907036-05 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 229 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:32 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP6**P907036-06 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 123 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:32 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP9**P907036-07 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 151 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | EPA 300.0/9056A | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:32 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP10**P907036-08 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 343 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:32 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP11**P907036-09 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 260 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:32 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP12**P907036-10 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 151 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | EPA 300.0/9056A | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:32 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP20**P907036-11 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 75.2 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 07/17/19 14:32 |

SP31
P907036-12 (Solid)

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 200 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:32 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP34**P907036-13 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 40.2 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 07/17/19 14:32 |

SP35**P907036-14 (Solid)**

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 131 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | EPA 300.0/9056A | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:32 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP38**P907036-15 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 104 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | EPA 300.0/9056A | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:32 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP41**P907036-16 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 111 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | 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: 04108-0639
Project Manager: Kris Rowe

Reported:
07/17/19 14:32

SP42

P907036-17 (Solid)

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 107 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:32 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP55**P907036-18 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 48.6 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:32 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP57**P907036-19 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 177 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | 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: 04108-0639
Project Manager: Kris Rowe

Reported:
07/17/19 14:32

SP60

P907036-20 (Solid)

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 40.6 | 20.0 | mg/kg | 1 | 1929001 | 07/15/19 | 07/15/19 | 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: 04108-0639
Project Manager: Kris Rowe

Reported:
07/17/19 14:32

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 1929001 - Anion Extraction EPA 300.0/9056A

Blank (1929001-BLK1)

Prepared: 07/15/19 0 Analyzed: 07/15/19 1

| | | | |
|----------|----|------|-------|
| Chloride | ND | 20.0 | mg/kg |
|----------|----|------|-------|

LCS (1929001-BS1)

Prepared: 07/15/19 0 Analyzed: 07/15/19 1

| | | | | | | |
|----------|-----|------|-------|-----|-----|--------|
| Chloride | 254 | 20.0 | mg/kg | 250 | 102 | 90-110 |
|----------|-----|------|-------|-----|-----|--------|

Matrix Spike (1929001-MS1)

Source: P907036-01

Prepared: 07/15/19 0 Analyzed: 07/15/19 1

| | | | | | | | |
|----------|-----|------|-------|-----|-----|------|--------|
| Chloride | 785 | 20.0 | mg/kg | 250 | 563 | 89.0 | 80-120 |
|----------|-----|------|-------|-----|-----|------|--------|

Matrix Spike Dup (1929001-MSD1)

Source: P907036-01

Prepared: 07/15/19 0 Analyzed: 07/15/19 1

| | | | | | | | | | | |
|----------|-----|------|-------|-----|-----|------|--------|------|----|------|
| Chloride | 742 | 20.0 | mg/kg | 250 | 563 | 71.9 | 80-120 | 5.59 | 20 | SPK1 |
|----------|-----|------|-------|-----|-----|------|--------|------|----|------|

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: 04108-0639 Project Manager: Kris Rowe | Reported: 07/17/19 14:32 |
|---|--|------------------------------------|

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> | | | | Report Attention | | | | Lab Use Only | | | | TAT | | EPA Program | | | | | |
| Project: <u>Ross Draw Unit #57</u> | | | | Report due by: <u>On file</u> | | | | Lab WO# <u>P 907036</u> | | Job Number <u>04108-0639</u> | | 1D | 3D | RCRA | CWA | SDWA | | | |
| Project Manager: <u>Kris Rowe</u> | | | | Attention: | | | | Analysis and Method | | | | | | | | State | | | |
| Address: <u>on file</u> | | | | Address: | | | | | | | | | | | | NM CO UT AZ | | | |
| City, State, Zip | | | | City, State, Zip | | | | | | | | | | | | | | | |
| Phone: | | | | Phone: | | | | | | | | | | | | | | | |
| Email: | | | | Email: | | | | | | | | | | | | | | | |

| 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 |
|--------------|--------------|--------|---------------|------------------|------------|-----------------|-----------------|--------------|-------------|-------------|----------------|--|--|--|--|--|--|--|---------|
| 11:30am | 7/12/2019 | Soil | 1 | SP ₁ | 1 | | | | | | X | | | | | | | | |
| | | | | SP ₂ | 2 | | | | | | | | | | | | | | |
| | | | | SP ₃ | 3 | | | | | | | | | | | | | | |
| | | | | SP ₄ | 4 | | | | | | | | | | | | | | |
| | | | | SP ₅ | 5 | | | | | | | | | | | | | | |
| | | | | SP ₆ | 6 | | | | | | | | | | | | | | |
| | | | | SP ₉ | 7 | | | | | | | | | | | | | | |
| | | | | SP ₁₀ | 8 | | | | | | | | | | | | | | |
| | | | | SP ₁₁ | 9 | | | | | | | | | | | | | | |
| | | | | SP ₁₂ | 10 | | | | | | | | | | | | | | |

Additional Instructions:

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 Date 7/12/2019 Time 2:40pm Received by: (Signature) Courtney Ford Date 7/12/19 Time 2:50

Relinquished by: (Signature) Ron Lopez Date 7/13/19 Time 10:15am Received by: (Signature) _____ Date _____ Time _____

Lab Use Only

Received on ice: Y / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sl - 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.

| Client: <u>WPA Carlisle</u> Project: <u>Ros Draw #57</u> Project Manager: <u>Kris Rowe</u> Address: <u>on file</u> City, State, Zip: <u> </u> Phone: <u> </u> Email: <u> </u> | | | | | Report Attention Report due by: <u>on file</u> Attention: <u> </u> Address: <u> </u> City, State, Zip: <u> </u> Phone: <u> </u> Email: <u> </u> | | | | | Lab Use Only Lab WO# <u>P907036</u> Job Number <u>04108-0639</u> Analysis and Method: <u> </u> | | | | | TAT 1D <input checked="" type="checkbox"/> 3D <input type="checkbox"/> | | EPA Program RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> State: <u> </u> NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> Remarks: <u> </u> | | | |
|--|--------------|--------|---------------|-----------|---|-----------------|-----------------|--------------|-------------|--|----------------|--|--|--|--|--|--|--|--|--|
| 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 | | | | | | | | | |
| 11:45 | 7/12/2019 | Soil | 1 | SP20 | 11 | | | | | | X | | | | | | | | | |
| | | | | SP31 | 12 | | | | | | | | | | | | | | | |
| | | | | SP34 | 13 | | | | | | | | | | | | | | | |
| | | | | SP35 | 14 | | | | | | | | | | | | | | | |
| | | | | SP38 | 15 | | | | | | | | | | | | | | | |
| | | | | SP41 | 16 | | | | | | | | | | | | | | | |
| | | | | SP42 | 17 | | | | | | | | | | | | | | | |
| | | | | SP55 | 18 | | | | | | | | | | | | | | | |
| | | | | SP57 | 19 | | | | | | | | | | | | | | | |
| | | | | SP60 | 20 | | | | | | | | | | | | | | | |

Additional Instructions:
 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) <u>Kevin</u> | Date <u>7/12/2019</u> | Time <u>2:40pm</u> | Received by: (Signature) <u>Colin Henry</u> | Date <u>7/12/19</u> | Time <u>2:50</u> |
| Relinquished by: (Signature) <u>Karla Lopez</u> | Date <u>7/13/19</u> | Time <u>10:15am</u> | Received by: (Signature) <u> </u> | Date <u> </u> | Time <u> </u> |

Lab Use Only
 Received on ice: ☒ Y / ☐ N
 T1 T2 T3
 AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sl - 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.



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 7/13/2019

Job Number: 04108-0639

Work Order: P907037

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is placed over a light pink rectangular background.

Date: 7/17/19

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: 04108-0639
Project Manager: Kris Rowe

Reported:
07/17/19 14:45

Analytical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| SP61 | P907037-01A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP64 | P907037-02A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP66 | P907037-03A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP69 | P907037-04A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP70 | P907037-05A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP76 | P907037-06A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP78 | P907037-07A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP79 | P907037-08A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP81 | P907037-09A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP87 | P907037-10A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP91 | P907037-11A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP93 | P907037-12A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP95 | P907037-13A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP102 | P907037-14A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SW1 | P907037-15A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SW2 | P907037-16A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SW3 | P907037-17A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SW4 | P907037-18A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SW5 | P907037-19A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SW7 | P907037-20A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SW9 | P907037-21A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SW11 | P907037-22A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SW12 | P907037-23A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |
| SP101 | P907037-24A | Soil | 07/12/19 | 07/13/19 | Glass Jar, 4 oz. |

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:45 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP61**P907037-01 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 34.8 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:45 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP64**P907037-02 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 156 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:45 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP66**P907037-03 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 79.3 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:45 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP69**P907037-04 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 118 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:45 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP70**P907037-05 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 99.5 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:45 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP76**P907037-06 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 192 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:45 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP78**P907037-07 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | ND | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:45 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP79**P907037-08 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 99.1 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 07/17/19 14:45 |

SP81**P907037-09 (Solid)**

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 26.6 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:45 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP87**P907037-10 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 69.7 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:45 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP91**P907037-11 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 78.7 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 07/17/19 14:45 |

SP93**P907037-12 (Solid)**

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

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Surrogate: <i>n</i> -Nonane | | 104 % | | 50-200 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|---|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1929002 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 103 % | | 50-150 | 1929002 | 07/15/19 | 07/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 149 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 07/17/19 14:45 |

SP95**P907037-13 (Solid)**

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

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Surrogate: <i>n</i> -Nonane | | 100 % | | 50-200 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|---|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1929002 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 102 % | | 50-150 | 1929002 | 07/15/19 | 07/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 133 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:45 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SP102
P907037-14 (Solid)

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 146 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:45 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SW1
P907037-15 (Solid)

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 23.4 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:45 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SW2**P907037-16 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 208 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 07/17/19 14:45 |

SW3**P907037-17 (Solid)**

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

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Surrogate: <i>n</i> -Nonane | | 106 % | | 50-200 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|---|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1929002 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 103 % | | 50-150 | 1929002 | 07/15/19 | 07/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 364 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:45 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SW4**P907037-18 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 213 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 07/17/19 14:45 |

SW5**P907037-19 (Solid)**

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 126 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:45 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SW7**P907037-20 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 118 | 20.0 | mg/kg | 1 | 1929005 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 07/17/19 14:45 |

SW9**P907037-21 (Solid)**

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

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Surrogate: <i>n</i> -Nonane | | 106 % | | 50-200 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|---|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1929002 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 103 % | | 50-150 | 1929002 | 07/15/19 | 07/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 275 | 20.0 | mg/kg | 1 | 1929006 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 07/17/19 14:45 |

SW11
P907037-22 (Solid)

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

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Surrogate: <i>n</i> -Nonane | | 103 % | | 50-200 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|---|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1929002 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 103 % | | 50-150 | 1929002 | 07/15/19 | 07/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 219 | 20.0 | mg/kg | 1 | 1929006 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | Reported: 07/17/19 14:45 |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | |

SW12
P907037-23 (Solid)

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 95.2 | 20.0 | mg/kg | 1 | 1929006 | 07/15/19 | 07/16/19 | EPA 300.0/9056A | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 07/17/19 14:45 |

SP101
P907037-24 (Solid)

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

Nonhalogenated Organics by 8015 - DRO/ORO

| | | | | | | | | | |
|---------------------------------|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Surrogate: <i>n</i> -Nonane | | 103 % | | 50-200 | 1929003 | 07/15/19 | 07/16/19 | EPA 8015D | |

Nonhalogenated Organics by 8015 - GRO

| | | | | | | | | | |
|---|----|-------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1929002 | 07/15/19 | 07/16/19 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 103 % | | 50-150 | 1929002 | 07/15/19 | 07/16/19 | EPA 8015D | |

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 81.2 | 20.0 | mg/kg | 1 | 1929006 | 07/15/19 | 07/16/19 | 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: 04108-0639 Project Manager: Kris Rowe | Reported: 07/17/19 14:45 |
|---|--|-----------------------------|

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 1929003 - DRO Extraction EPA 3570

Blank (1929003-BLK1)

Prepared: 07/15/19 1 Analyzed: 07/16/19 1

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | | | | | | | |
| Oil Range Organics (C28-C40) | ND | 50.0 | " | | | | | | | |
| Surrogate: n-Nonane | 50.2 | | " | 50.0 | | 100 | 50-200 | | | |

LCS (1929003-BS1)

Prepared: 07/15/19 1 Analyzed: 07/16/19 1

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 499 | 25.0 | mg/kg | 500 | | 99.7 | 38-132 | | | |
| Surrogate: n-Nonane | 50.0 | | " | 50.0 | | 100 | 50-200 | | | |

Matrix Spike (1929003-MS1)

Source: P907037-12

Prepared: 07/15/19 1 Analyzed: 07/16/19 1

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|----|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 487 | 25.0 | mg/kg | 500 | ND | 97.4 | 38-132 | | | |
| Surrogate: n-Nonane | 52.3 | | " | 50.0 | | 105 | 50-200 | | | |

Matrix Spike Dup (1929003-MSD1)

Source: P907037-12

Prepared: 07/15/19 1 Analyzed: 07/16/19 1

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|----|------|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 474 | 25.0 | mg/kg | 500 | ND | 94.8 | 38-132 | 2.75 | 20 | |
| Surrogate: n-Nonane | 50.4 | | " | 50.0 | | 101 | 50-200 | | | |

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

Project Name: Ross Draw Unit #57
Project Number: 04108-0639
Project Manager: Kris Rowe

Reported:
07/17/19 14:45

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 1929002 - Purge and Trap EPA 5030A

Blank (1929002-BLK1)

Prepared: 07/15/19 0 Analyzed: 07/16/19 1

| | | | | | | | | | | |
|---|------|------|-------|------|--|-----|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.27 | | " | 8.00 | | 103 | 50-150 | | | |

LCS (1929002-BS2)

Prepared: 07/15/19 0 Analyzed: 07/16/19 1

| | | | | | | | | | | |
|---|------|------|-------|------|--|-----|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 57.1 | 20.0 | mg/kg | 50.0 | | 114 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.30 | | " | 8.00 | | 104 | 50-150 | | | |

Matrix Spike (1929002-MS2)

Source: P907037-12

Prepared: 07/15/19 0 Analyzed: 07/16/19 1

| | | | | | | | | | | |
|---|------|------|-------|------|----|-----|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 55.9 | 20.0 | mg/kg | 50.0 | ND | 112 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.26 | | " | 8.00 | | 103 | 50-150 | | | |

Matrix Spike Dup (1929002-MSD2)

Source: P907037-12

Prepared: 07/15/19 0 Analyzed: 07/16/19 1

| | | | | | | | | | | |
|---|------|------|-------|------|----|-----|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 54.7 | 20.0 | mg/kg | 50.0 | ND | 109 | 70-130 | 2.27 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.18 | | " | 8.00 | | 102 | 50-150 | | | |

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

Project Name: Ross Draw Unit #57
Project Number: 04108-0639
Project Manager: Kris Rowe

Reported:
07/17/19 14:45

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 1929005 - Anion Extraction EPA 300.0/9056A

Blank (1929005-BLK1)

Prepared: 07/15/19 1 Analyzed: 07/16/19 0

| | | | |
|----------|----|------|-------|
| Chloride | ND | 20.0 | mg/kg |
|----------|----|------|-------|

LCS (1929005-BS1)

Prepared: 07/15/19 1 Analyzed: 07/16/19 0

| | | | | | | |
|----------|-----|------|-------|-----|-----|--------|
| Chloride | 253 | 20.0 | mg/kg | 250 | 101 | 90-110 |
|----------|-----|------|-------|-----|-----|--------|

Matrix Spike (1929005-MS1)

Source: P907037-01

Prepared: 07/15/19 1 Analyzed: 07/16/19 0

| | | | | | | | |
|----------|-----|------|-------|-----|------|-----|--------|
| Chloride | 289 | 20.0 | mg/kg | 250 | 34.8 | 102 | 80-120 |
|----------|-----|------|-------|-----|------|-----|--------|

Matrix Spike Dup (1929005-MSD1)

Source: P907037-01

Prepared: 07/15/19 1 Analyzed: 07/16/19 0

| | | | | | | | | | |
|----------|-----|------|-------|-----|------|------|--------|------|----|
| Chloride | 282 | 20.0 | mg/kg | 250 | 34.8 | 98.8 | 80-120 | 2.64 | 20 |
|----------|-----|------|-------|-----|------|------|--------|------|----|

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| | | | |
|---------------------|------------------|--------------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw Unit #57 | |
| 5315 Buena Vista Dr | Project Number: | 04108-0639 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kris Rowe | 07/17/19 14:45 |

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 1929006 - Anion Extraction EPA 300.0/9056A**Blank (1929006-BLK1)**

Prepared: 07/15/19 1 Analyzed: 07/16/19 1

| | | | | | | | | | | |
|----------|----|------|-------|--|--|--|--|--|--|--|
| Chloride | ND | 20.0 | mg/kg | | | | | | | |
|----------|----|------|-------|--|--|--|--|--|--|--|

LCS (1929006-BS1)

Prepared: 07/15/19 1 Analyzed: 07/16/19 1

| | | | | | | | | | | |
|----------|-----|------|-------|-----|--|-----|--------|--|--|--|
| Chloride | 257 | 20.0 | mg/kg | 250 | | 103 | 90-110 | | | |
|----------|-----|------|-------|-----|--|-----|--------|--|--|--|

Matrix Spike (1929006-MS1)**Source: P907037-21**

Prepared: 07/15/19 1 Analyzed: 07/16/19 1

| | | | | | | | | | | |
|----------|-----|------|-------|-----|-----|-----|--------|--|--|--|
| Chloride | 561 | 20.0 | mg/kg | 250 | 275 | 115 | 80-120 | | | |
|----------|-----|------|-------|-----|-----|-----|--------|--|--|--|

Matrix Spike Dup (1929006-MSD1)**Source: P907037-21**

Prepared: 07/15/19 1 Analyzed: 07/16/19 1

| | | | | | | | | | | |
|----------|-----|------|-------|-----|-----|-----|--------|------|----|--|
| Chloride | 551 | 20.0 | mg/kg | 250 | 275 | 111 | 80-120 | 1.73 | 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: 04108-0639
Project Manager: Kris Rowe

Reported:
07/17/19 14:45

Notes and Definitions

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 Carlisbad</u> | | | | Report Attention | | | | Lab Use Only | | | | TAT | | EPA Program | | | | | |
| Project: <u>Ross Draw Unit #57</u> | | | | Report due by: <u>on file</u> | | | | Lab WO# <u>P 907037</u> | | Job Number <u>04108-0639</u> | | 1D | 3D | RCRA | CWA | SDWA | | | |
| Project Manager: <u>Kris Rowe</u> | | | | Attention: | | | | Analysis and Method | | | | | | | | State | | | |
| Address: <u>on file</u> | | | | Address: | | | | | | | | | | | | NM | | | |
| City, State, Zip | | | | City, State, Zip | | | | DRO/ORO by 8015 | | | | GRO/DRO by 8015 | | | | BTEX by 8021 | | | |
| Phone: | | | | Phone: | | | | VOC by 8260 | | | | Metals 6010 | | | | Chloride 300.0 | | | |
| Email: | | | | Email: | | | | | | | | | | | | | | | |
| Time Sampled | Date Sampled | Matrix | No Containers | Sample ID | Lab Number | | | | | | | | | | | | | | |
| | | | | SP61 | 1 | | | | | | | | | | | | | | |
| | | | | SP64 | 2 | | | | | | | | | | | | | | |
| | | | | SP66 | 3 | | | | | | | | | | | | | | |
| | | | | SP69 | 4 | | | | | | | | | | | | | | |
| | | | | SP70 | 5 | | | | | | | | | | | | | | |
| | | | | SP76 | 6 | | | | | | | | | | | | | | |
| | | | | SP78 | 7 | | | | | | | | | | | | | | |
| | | | | SP79 | 8 | | | | | | | | | | | | | | |
| | | | | SP81 | 9 | | | | | | | | | | | | | | |
| | | | | SP87 | 10 | | | | | | | | | | | | | | |
| Additional Instructions: | | | | | | | | | | | | | | | | | | | |
| 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: <u>Kevin</u> | | | | | | | | | | | | Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. | | | | | | | |
| Relinquished by: (Signature) <u>Kevin Doria</u> | | | | Date <u>7/12/2019</u> | | Time <u>2:40pm</u> | | Received by: (Signature) <u>Carroll</u> | | | | Date <u>7/12/19</u> | | Time <u>2:50</u> | | Lab Use Only | | | |
| Relinquished by: (Signature) <u>Dorina Lopez</u> | | | | Date <u>7/13/19</u> | | Time <u>10:15am</u> | | Received by: (Signature) | | | | Date | | Time | | Received on ice: <u>0</u> / N | | | |
| Sample Matrix: S - Soil, Sd - Solid, Sl - 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. | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|--------------|--------|---------------|-------------------------------|------------|---------------------|---|---|-----------------|------------------------------|-------------|---|----------------|------------------|-----|-------------------------------|----|----|---------|----|
| Client: <u>WPX Carlsbad</u> | | | | Report Attention | | | | Lab Use Only | | | | TAT | | EPA Program | | | | | | |
| Project: <u>Ross Draw Unit #57</u> | | | | Report due by: <u>on file</u> | | | | Lab WO# <u>P907037</u> | | Job Number <u>04108-0639</u> | | 1D | 3D | RCRA | CWA | SDWA | | | | |
| Project Manager: <u>Kris Rowe</u> | | | | Attention: | | | | Analysis and Method | | | | | | | | State | | | | |
| Address: <u>on file</u> | | | | Address: | | | | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | | | | NM | CO | UT | AZ |
| City, State, Zip | | | | City, State, Zip | | | | | | | | | | | | | | | | |
| Phone: | | | | Phone: | | | | | | | | | | | | | | | | |
| Email: | | | | Email: | | | | | | | | | | | | | | | | |
| Time Sampled | Date Sampled | Matrix | No Containers | Sample ID | Lab Number | | | | | | | | | | | | | | Remarks | |
| | | | | SP 91 | 11 | | | | | | | | X | | | | | | | |
| | | | | SP 93 | 12 | X | X | | | | | | X | | | | | | | |
| | | | | SP 95 | 13 | X | X | | | | | | X | | | | | | | |
| | | | | SP 102 | 14 | | | | | | | | X | | | | | | | |
| | | | | SW 1 | 15 | | | | | | | | X | | | | | | | |
| | | | | SW 2 | 16 | | | | | | | | X | | | | | | | |
| | | | | SW 3 | 17 | X | X | | | | | | X | | | | | | | |
| | | | | SW 4 | 18 | | | | | | | | X | | | | | | | |
| | | | | SW 5 | 19 | | | | | | | | X | | | | | | | |
| | | | | SW 7 | 20 | | | | | | | | X | | | | | | | |
| Additional Instructions: | | | | | | | | | | | | | | | | | | | | |
| 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: <u>Kerin</u> | | | | | | | | | | | | Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. | | | | | | | | |
| Relinquished by: (Signature) <u>Karin Davis</u> | | | | Date <u>7/12/2019</u> | | Time <u>2:40pm</u> | | Received by: (Signature) <u>Courtney Stoval</u> | | | | Date <u>7/12/19</u> | | Time <u>2:50</u> | | Lab Use Only | | | | |
| Relinquished by: (Signature) <u>Karin Lopez</u> | | | | Date <u>7/13/19</u> | | Time <u>10:15am</u> | | Received by: (Signature) | | | | Date | | Time | | Received on ice: <u>Y</u> / N | | | | |
| 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. | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------------|--|-------------------------------|--|------------------------|--|------------------------------|--|-------------|----|-------------|-----|------|
| Client: <u>WPA Carlsbad</u> | | Report Attention | | Lab Use Only | | TAT | | EPA Program | | | | |
| Project: <u>Ross Draw Unit #57</u> | | Report due by: <u>on file</u> | | Lab WO# <u>P907037</u> | | Job Number <u>04108-0639</u> | | 1D | 3D | RCRA | CWA | SDWA |
| Project Manager: <u>Kris Rowe</u> | | Attention: | | | | | | | | | | |
| Address: <u>on file</u> | | Address: | | | | | | | | State | | |
| City, State, Zip | | City, State, Zip | | | | | | | | NM CO UT AZ | | |
| Phone: | | Phone: | | | | | | | | X | | |
| Email: | | Email: | | | | | | | | Remarks | | |

| 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 | | | | | | | | |
|--------------|--------------|--------|---------------|-----------|------------|-----------------|-----------------|--------------|-------------|-------------|----------------|--|--|--|--|--|--|--|--|
| | | | | SWa | 21 | X | X | | | | X | | | | | | | | |
| | | | | SW11 | 22 | X | X | | | | | | | | | | | | |
| | | | | SW12 | 23 | | | | | | | | | | | | | | |
| | | | | SP 101 | 24 | X | X | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |

Additional Instructions:

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

| | | | | | | | |
|--|-----------------------|---------------------|---|---------------------|------------------|-------------------------------|----|
| Relinquished by: (Signature) <u>Kevin</u> | Date <u>7/12/2019</u> | Time <u>2:40pm</u> | Received by: (Signature) <u>Courtney Stoval</u> | Date <u>7/12/19</u> | Time <u>2:50</u> | Lab Use Only | |
| Relinquished by: (Signature) <u>Patricia Lopez</u> | Date <u>7/13/19</u> | Time <u>10:15am</u> | Received by: (Signature) | Date | Time | Received on ice: <u>3</u> / N | |
| | | | | | | T1 | T2 |
| | | | | | | AVG Temp °C <u>4</u> | |

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.

| | | | | | | | | | | | | | |
|---|--------------|------------------------|---------------|-----------------|------------|---|-----------------|--------------|-------------|---|----------------|------------------------|----|
| Client: WPX Carlisbad | | Report Attention | | Lab Use Only | | | | TAT | | EPA Program | | | |
| Project: Ross Draw Unit #57 | | Report due by: on file | | Lab WO# P907037 | | Job Number 04108-0639 | | 1D | 3D | RCRA | CWA | SDWA | |
| Project Manager: Kris Rowe | | Attention: | | | | | | | | | | | |
| Address: on file | | Address: | | | | | | | | | | | |
| City, State, Zip | | City, State, Zip | | | | | | | | | | | |
| Phone: | | Phone: | | | | | | | | | | | |
| Email: | | Email: | | | | | | | | | | | |
| 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 | State | |
| | 7/12/2019 | per client | | SP61 | 1 | | | | | | X | NM | CO |
| | | | | SP64 | 2 | | | | | | | | |
| | | | | SP66 | 3 | | | | | | | | |
| | | | | SP69 | 4 | | | | | | | | |
| | | | | SP70 | 5 | | | | | | | | |
| | | | | SP76 | 6 | | | | | | | | |
| | | | | SP78 | 7 | | | | | | | | |
| | | | | SP79 | 8 | | | | | | | | |
| | | | | SP81 | 9 | | | | | | | | |
| | | | | SP87 | 10 | | | | | | | | |
| Additional Instructions: | | | | | | | | | | | | | |
| 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 | | | | | | | | | | Samples requiring thermal preservation must be received on ice the day they are sampled or received and packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. | | | |
| Relinquished by: (Signature) Kevin Drake | | Date 7/12/2019 | | Time 2:40 pm | | Received by: (Signature) Courtney Swall | | Date 7/12/19 | | Time 2:50 | | Lab Use Only | |
| Relinquished by: (Signature) Reina Lopez | | Date 7/13/19 | | Time 10:15 am | | Received by: (Signature) | | Date | | Time | | Received on ice: 0 / N | |
| Sample Matrix: S - Soil, Sd - Solid, Sl - 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. | | | | | | | | | | | | | |

| Client: <u>WJFX Carlsbad</u> Project: <u>Ross Draw Unit #57</u> Project Manager: <u>Kris Rowe</u> Address: <u>on file</u> City, State, Zip: _____ Phone: _____ Email: _____ | | | | Report Attention Report due by: <u>on file</u> Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ | | | | Lab Use Only Lab WO# <u>P907037</u> Job Number <u>04108-0639</u> Analysis and Method: _____ | | | | TAT 1D <input checked="" type="checkbox"/> 3D <input type="checkbox"/> | | EPA Program RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> State: _____ NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <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 | | | | | |
| | <u>7/12</u> | <u>8M Permitt</u> | | <u>SP 91</u> | <u>11</u> | | | | | | <u>X</u> | | | | | | |
| | | | | <u>SP 93</u> | <u>12</u> | <u>X</u> | <u>X</u> | | | | <u>X</u> | | | | | | |
| | | | | <u>SP 95</u> | <u>13</u> | <u>X</u> | <u>X</u> | | | | <u>X</u> | | | | | | |
| | | | | <u>SP 102</u> | <u>14</u> | | | | | | <u>X</u> | | | | | | |
| | | | | <u>SW 1</u> | <u>15</u> | | | | | | <u>X</u> | | | | | | |
| | | | | <u>SW 2</u> | <u>16</u> | | | | | | <u>X</u> | | | | | | |
| | | | | <u>SW 3</u> | <u>17</u> | <u>X</u> | <u>X</u> | | | | <u>X</u> | | | | | | |
| | | | | <u>SW 4</u> | <u>18</u> | | | | | | <u>X</u> | | | | | | |
| | | | | <u>SW 5</u> | <u>19</u> | | | | | | <u>X</u> | | | | | | |
| | | | | <u>SW 7</u> | <u>20</u> | | | | | | <u>X</u> | | | | | | |
| Additional Instructions: | | | | | | | | | | | | | | | | | |
| I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Kern</u> | | | | | | | | | | | | Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. | | | | | |
| Relinquished by: (Signature) <u>Kern</u> | | Date <u>7/12/2019</u> | | Time <u>2:40pm</u> | | Received by: (Signature) <u>Courtney Stoval</u> | | Date <u>7/12/19</u> | | Time <u>2:50</u> | | Lab Use Only | | | | | |
| Relinquished by: (Signature) <u>Rain Lopez</u> | | Date <u>7/13/19</u> | | Time <u>10:15am</u> | | Received by: (Signature) _____ | | Date _____ | | Time _____ | | Received on ice: <u>0</u> / N | | | | | |
| 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. | | | | | | | | | | | | | | | | | |

Page 37 of 37



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 11/9/2019

Job Number: 14078-0003

Work Order: P911039

Project Name/Location: Ross Draw #57

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is placed over a light blue rectangular background.

Date: 11/13/19

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.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



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

Project Name: Ross Draw #57
Project Number: 14078-0003
Project Manager: Kevin Smith

Reported:
11/13/19 16:23

Analytical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| SP92 | P911039-01A | Soil | 11/07/19 | 11/09/19 | Glass Jar, 4 oz. |

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| | | | |
|---------------------|------------------|---------------|------------------------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw #57 | Reported: 11/13/19 16:23 |
| 5315 Buena Vista Dr | Project Number: | 14078-0003 | |
| Carlsbad NM, 88220 | Project Manager: | Kevin Smith | |

SP92**P911039-01 (Solid)**

Reporting

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

Anions by 300.0/9056A

| | | | | | | | | | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 254 | 20.0 | mg/kg | 1 | 1946012 | 11/12/19 | 11/12/19 | EPA 300.0/9056A | |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|

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| | | | |
|---------------------|------------------|---------------|------------------|
| WPX (Carlsbad) | Project Name: | Ross Draw #57 | |
| 5315 Buena Vista Dr | Project Number: | 14078-0003 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Kevin Smith | 11/13/19 16:23 |

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 1946012 - Anion Extraction EPA 300.0/9056A**Blank (1946012-BLK1)**

Prepared: 11/12/19 0 Analyzed: 11/12/19 1

| | | | | | | | | | | |
|----------|----|------|-------|--|--|--|--|--|--|--|
| Chloride | ND | 20.0 | mg/kg | | | | | | | |
|----------|----|------|-------|--|--|--|--|--|--|--|

LCS (1946012-BS1)

Prepared: 11/12/19 0 Analyzed: 11/12/19 1

| | | | | | | | | | | |
|----------|-----|------|-------|-----|--|-----|--------|--|--|--|
| Chloride | 251 | 20.0 | mg/kg | 250 | | 100 | 90-110 | | | |
|----------|-----|------|-------|-----|--|-----|--------|--|--|--|

Matrix Spike (1946012-MS1)**Source: P911036-01**

Prepared: 11/12/19 0 Analyzed: 11/12/19 1

| | | | | | | | | | | |
|----------|-----|------|-------|-----|----|-----|--------|--|--|--|
| Chloride | 264 | 20.0 | mg/kg | 250 | ND | 106 | 80-120 | | | |
|----------|-----|------|-------|-----|----|-----|--------|--|--|--|

Matrix Spike Dup (1946012-MSD1)**Source: P911036-01**

Prepared: 11/12/19 0 Analyzed: 11/12/19 1

| | | | | | | | | | | |
|----------|-----|------|-------|-----|----|-----|--------|-------|----|--|
| Chloride | 262 | 20.0 | mg/kg | 250 | ND | 105 | 80-120 | 0.805 | 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) | Project Name: | Ross Draw #57 | Reported: 11/13/19 16:23 |
| 5315 Buena Vista Dr | Project Number: | 14078-0003 | |
| Carlsbad NM, 88220 | Project Manager: | Kevin Smith | |

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Received by OCD: 1/17/2020 1:04:28 PM
9 jo 9 age d

Additional Instructions:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

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.



Appendix D: Site Photos



Excavated Area

June 10, 2019





Excavated Area

June 10, 2019





Excavated Area

June 10, 2019





Excavated Area

June 10, 2019





Excavated Area

June 10, 2019





Excavated Area

June 10, 2019





Excavated Area

June 10, 2019





Excavated Area

June 10, 2019





Excavated Area

June 10, 2019





Excavated Area

June 10, 2019





Excavation Following Backfill

July 30, 2019





Excavation Following Backfill

July 30, 2019





Excavation Following Backfill

July 30, 2019

