

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

374DX-190920-C-1410

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)

☒ Crude Oil	Volume Released (bbls) 2	Volume Recovered (bbls) 1.5
☒ 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?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ 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: September 20, 2019

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: _____



September 12, 2019

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

Closure Report
Ross Draw Unit #057
2RP-5450
API #: 30-015-41978
Eddy County, New Mexico

374DX-190920-C-1410

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). 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

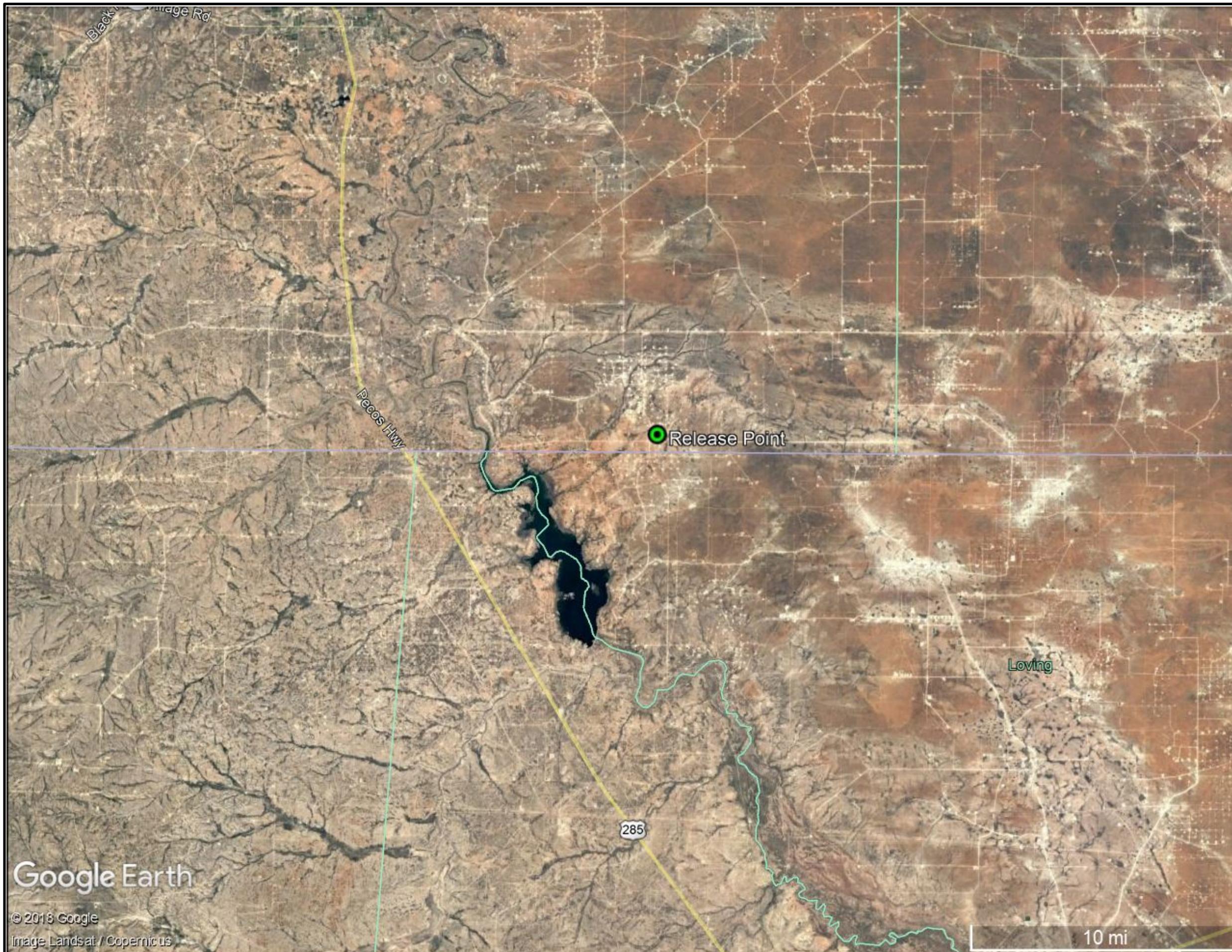


Figure 1: Site Location Map

Ross Draw Unit #57

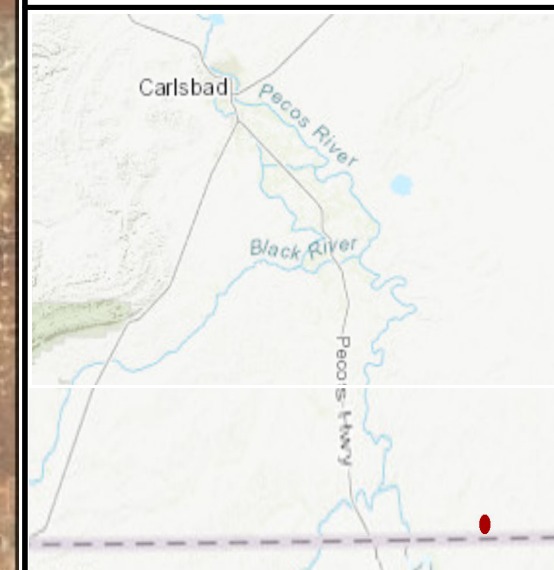
32.010612 -103.872356
Section 27, Township 26 South, Range 30 East

Mapped Features



Ross Draw Unit #57

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Author: K. Smith

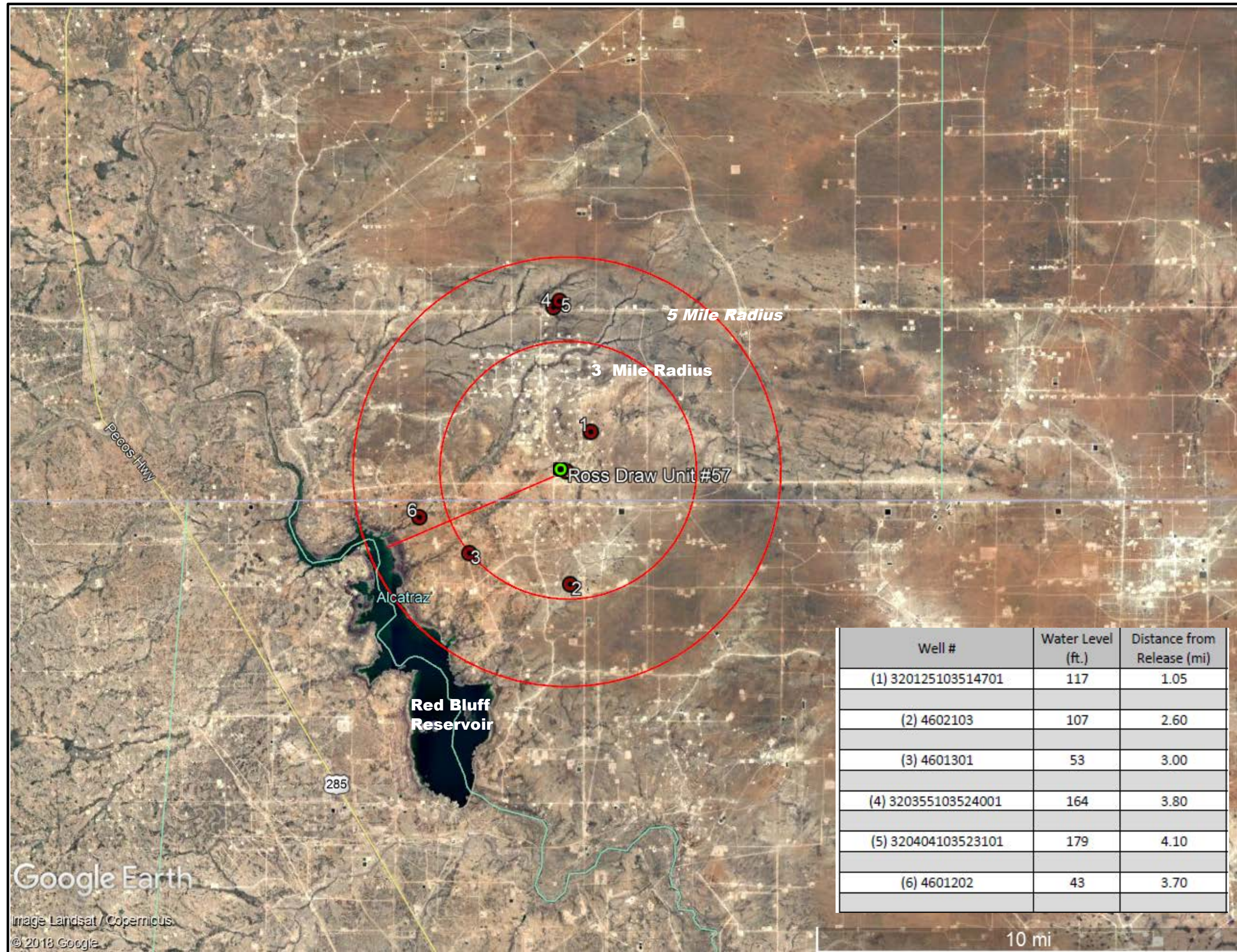
Rev: 0

Date: 8/1/2019

Google Earth

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Image Landsat / Copernicus

10 mi



WPXENERGY.

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

Google Earth

Image Landsat / Copernicus

© 2018 Google

10 mi

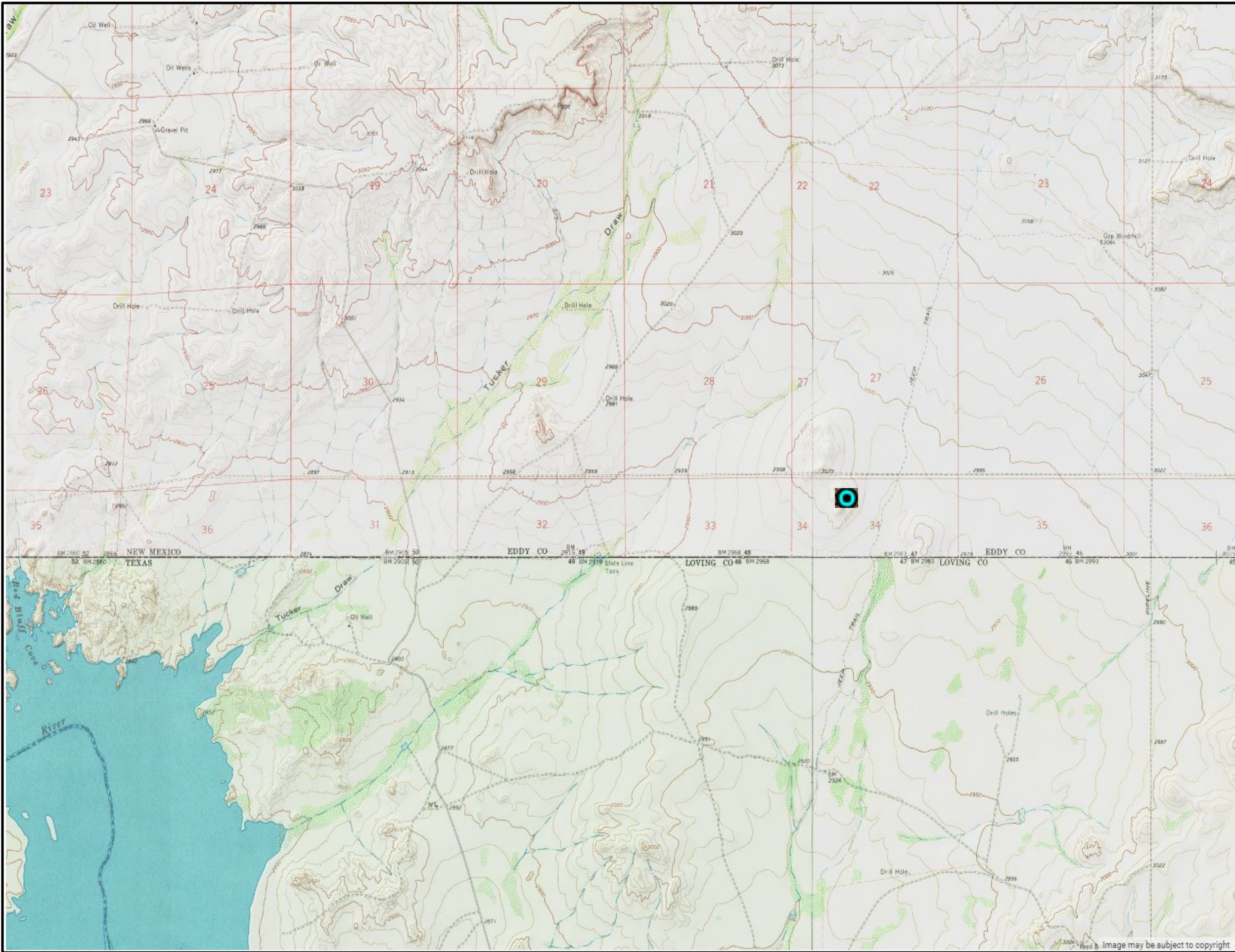


Figure 3: Topographic Assessment Map

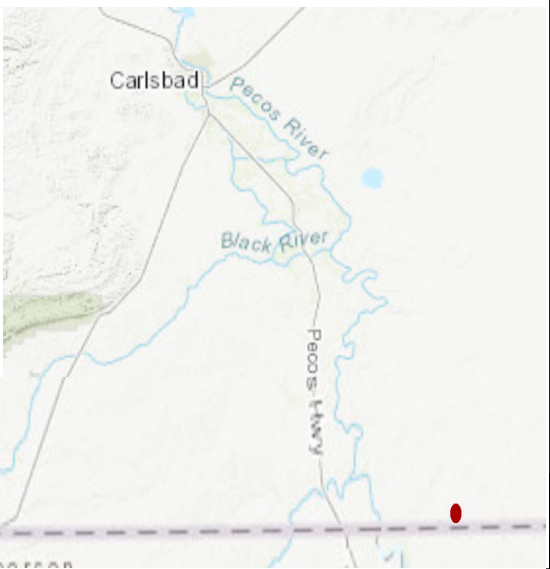
Ross Draw Unit #57
32.0104772,-103.871.8488
Section 27, Township 26 South, Range 30 East

Mapped Features



Point of Release

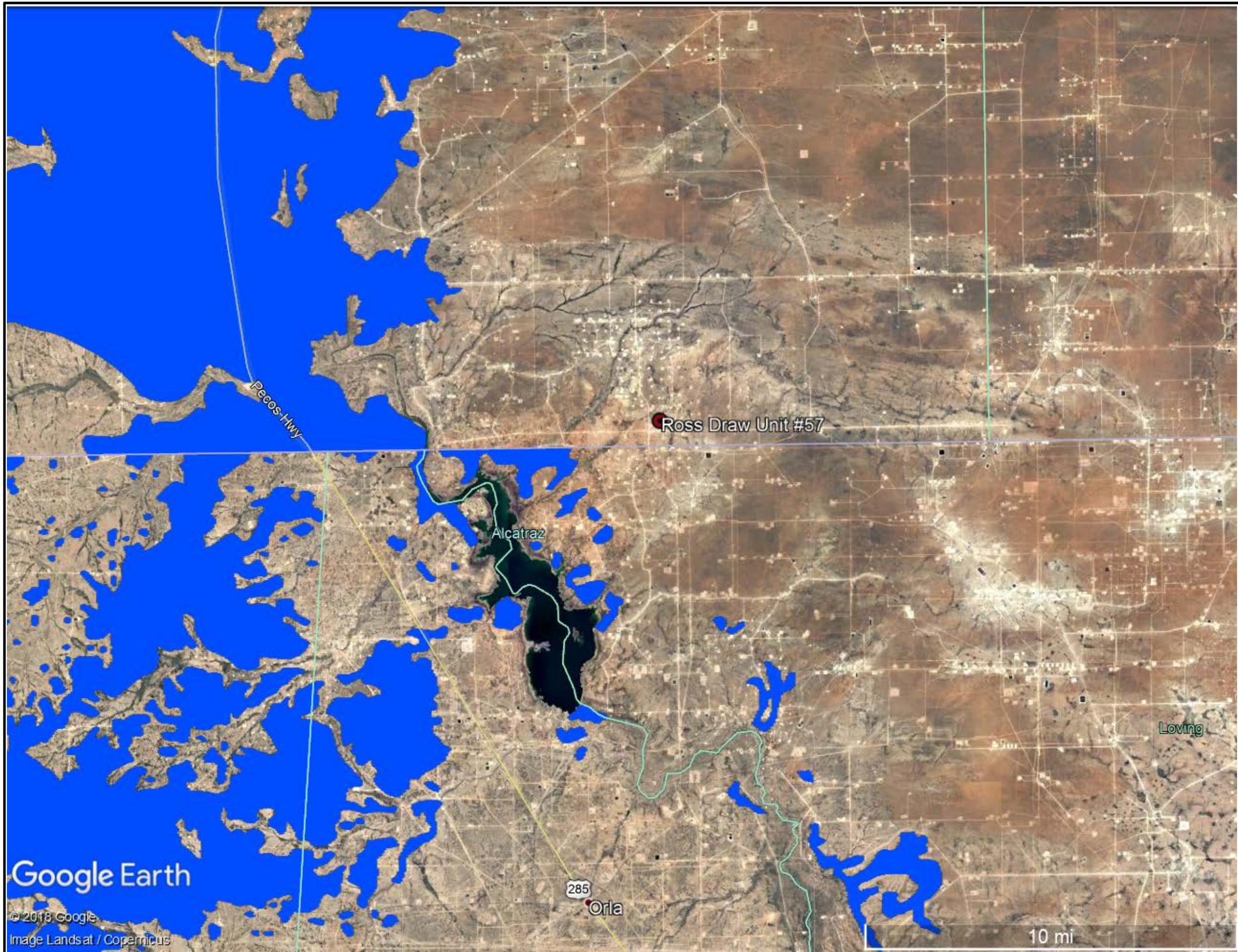
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Author: K. Smith

Rev: 0

Date: 9/11/2019



**Figure 4: Karst
Location Map**
Ross Draw Unit #57
32.0104772, -103.871.8488
Section 27, Township 26 South, Range
30 East

Mapped Features

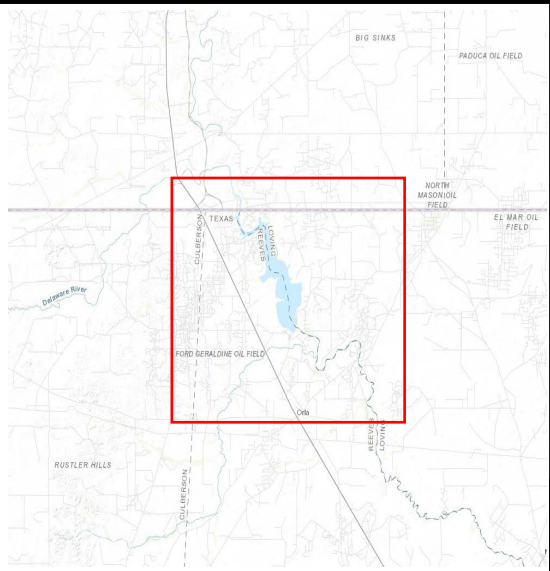


Karst Formations



Release Location

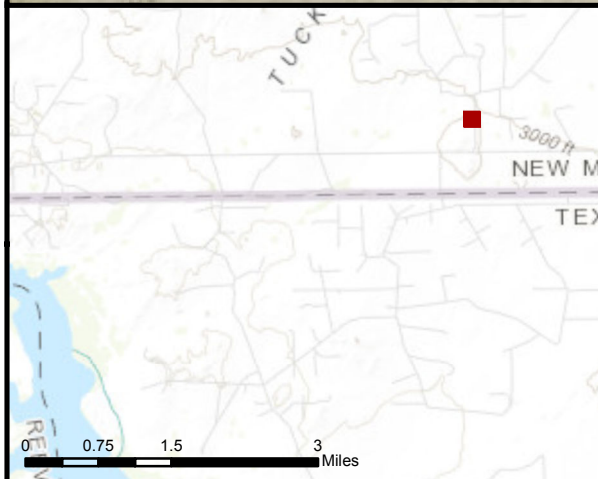
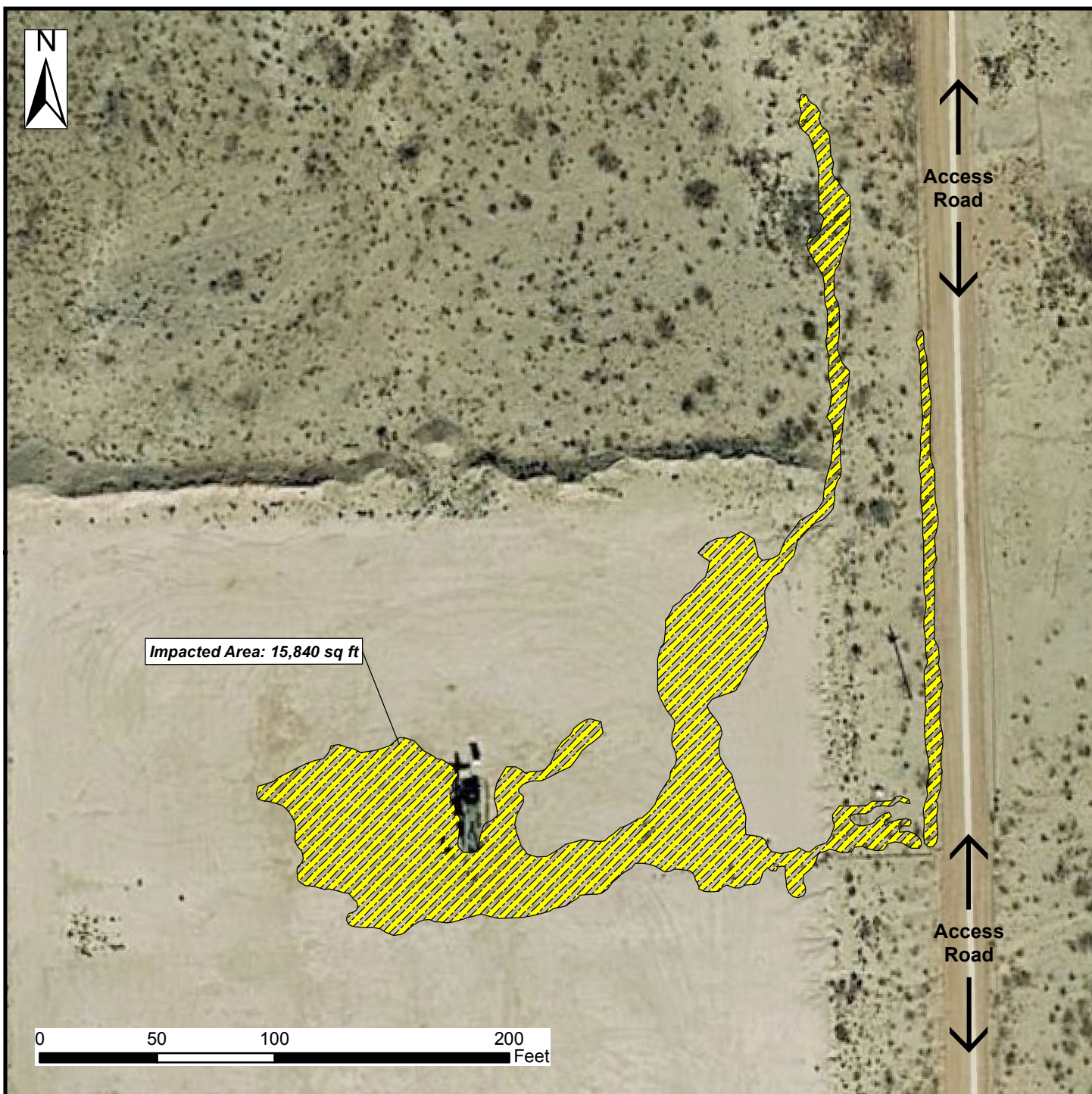
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Author: K.Smith

Rev: 0

Date: 5/16/2019



Impacted Area Map

Ross Draw Unit #57

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

Features

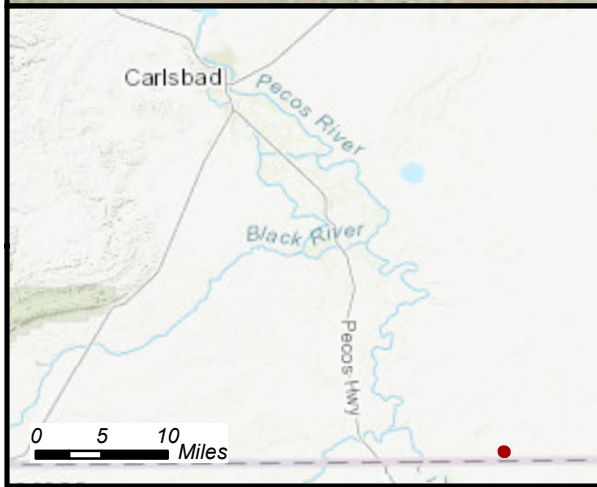
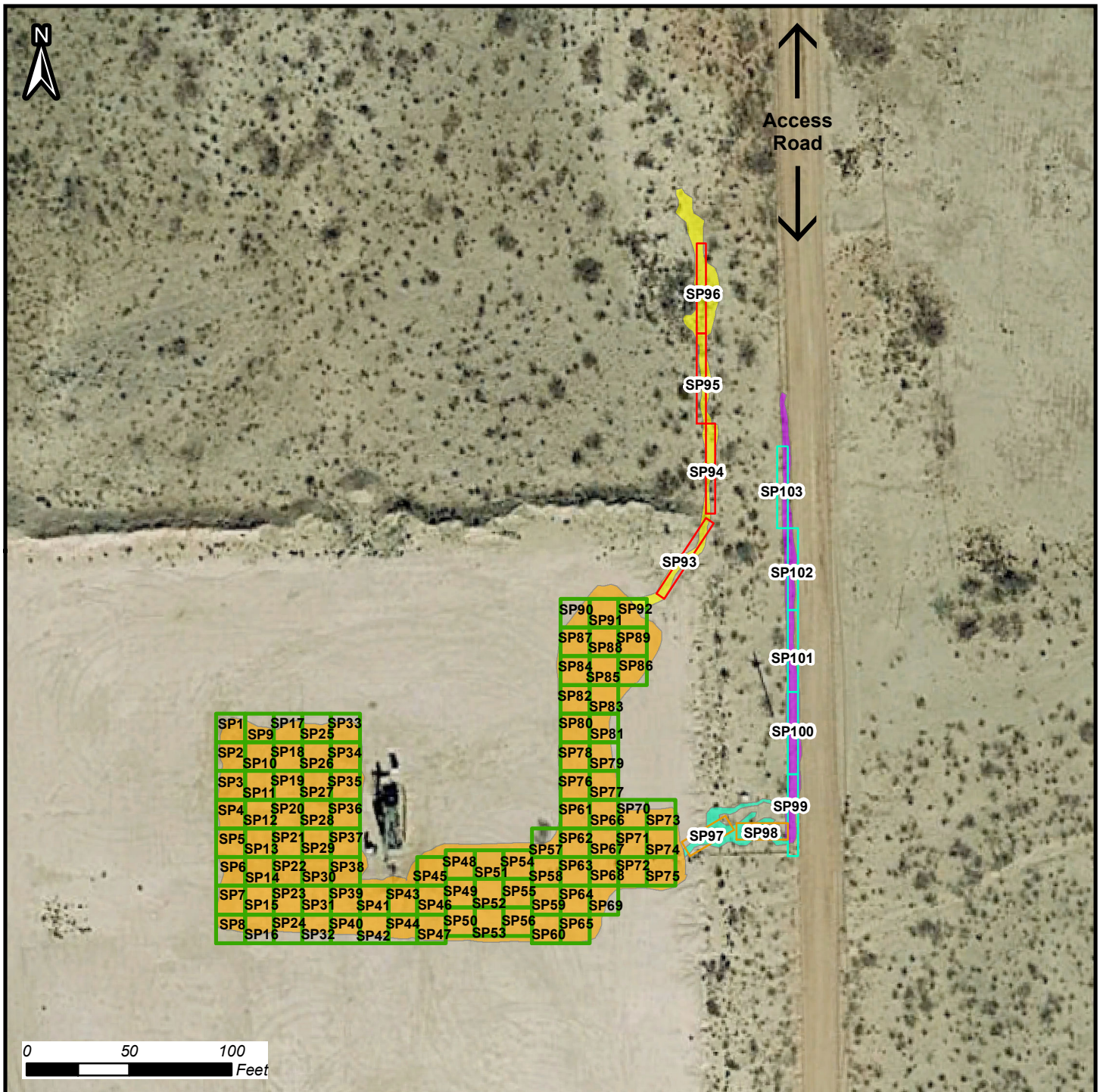
 Impacted Area

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Author: K. Fox
Revision: 0
Date: 5.16.2019



Confirmation Sample Map

Ross Draw Unit #57
Excavation Footprint

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

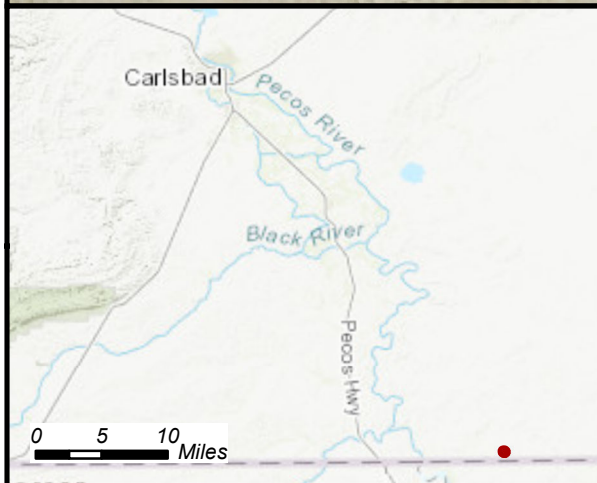
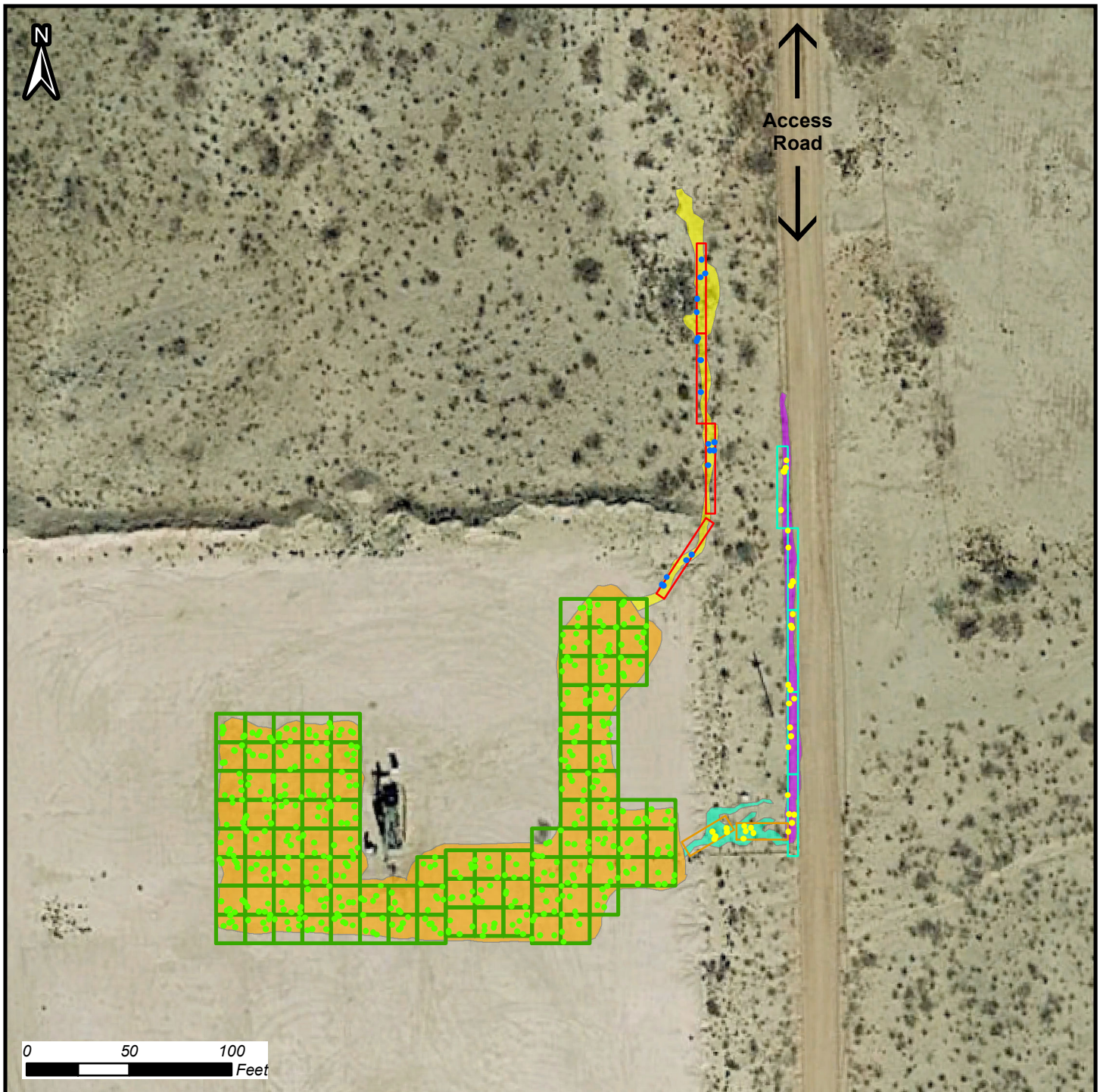
Mapped Features

- | | | |
|-----------------|------------------|---------------|
| 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



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

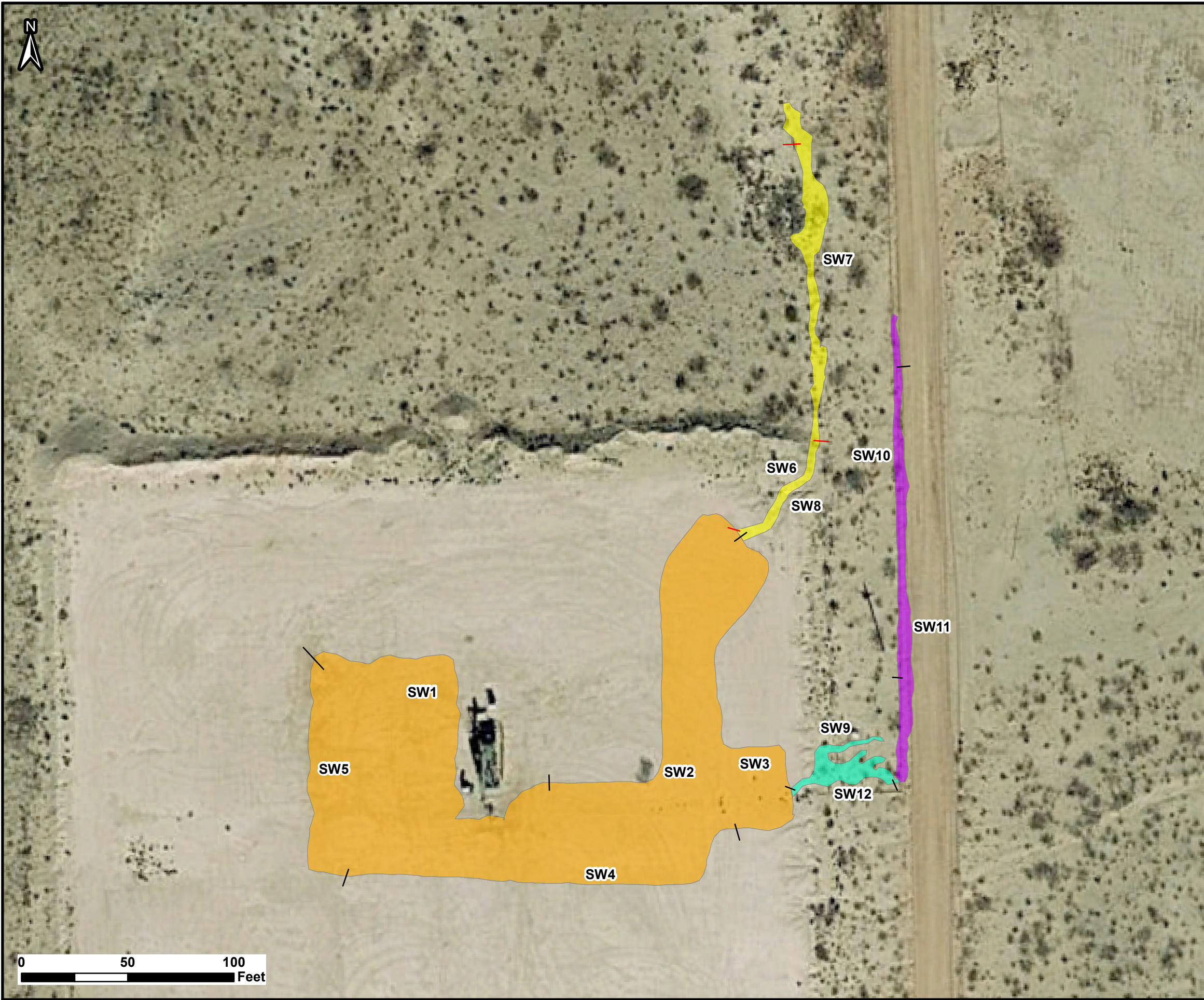
- 14' X 14' Grid
- 44' X 4.5' Grid
- 40' X 5' Grid
- 8' X 25' Grid

- Excavation Area
- Off-Pad Area 1
- Off-Pad Area 2
- Access Road Area

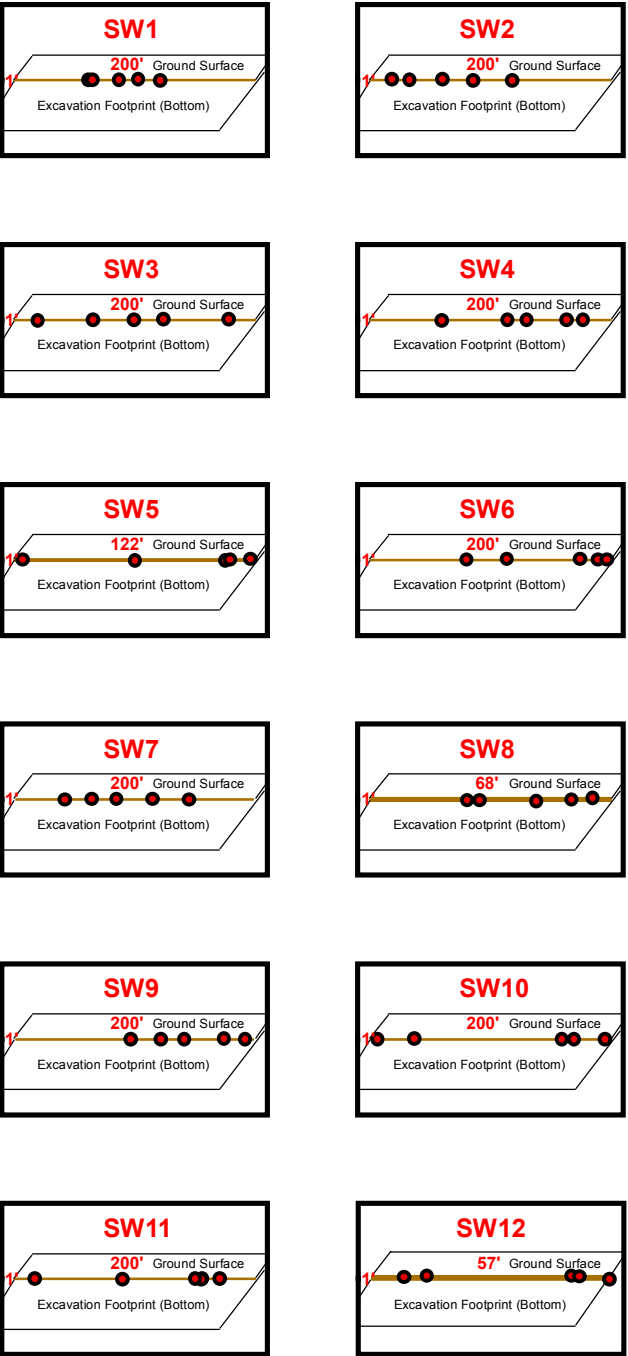
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Author: A. Asay
Revision: 0
Date: 6/25/2019



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
- Excavation Area
- Off-Pad Area 1
- Off-Pad Area 2
- Access Road Area

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Author: A. Asay

Revision: 0

Date: 6/25/2019

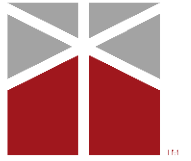


Table A: Laboratory Results Summary

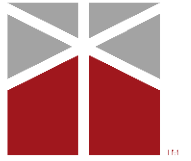
Ross Draw Unit #57			Analytical Results - Envirotech Inc.						
Excavation Footprint								Reported in mg/kg	
NM OCD Table 1 Thresholds (GW)			600	10	50	100			
Sample ID	Depth (ft)	Sampling Date	Chloride	Benzene	BTEX	GRO	DRO	MRO	Total TPH
SP1	1	6/10/2019	757	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	563						
SP2	1	6/10/2019	791	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	201						
SP3	1	6/10/2019	629	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	296						
SP4	1	6/10/2019	1130	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	466						
SP5	1	6/10/2019	1930	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	229						
SP6	1	6/10/2019	1200	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	123						
SP7	1	6/10/2019	306	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP8	1	6/10/2019	239	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP9	1	6/10/2019	10500	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	151						
SP10	1	6/10/2019	5490	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	343						
SP11	1	6/10/2019	806	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	260						
SP12	1	6/10/2019	3100	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	151						
SP13	1	6/10/2019	305	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP14	1	6/10/2019	456	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP15	1	6/10/2019	192	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP16	1	6/10/2019	353	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP17	1	6/10/2019	197	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP18	1	6/10/2019	357	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP19	1	6/10/2019	472	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP20	1	6/10/2019	1490	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	75.2						

Ross Draw Unit #57			Analytical Results - Envirotech Inc.						
Excavation Footprint								Reported in mg/kg	
NMOCD 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	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP22	1	6/10/2019	127	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP23	1	6/10/2019	320	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP24	1	6/10/2019	326	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP25	1	6/10/2019	306	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP26	1	6/10/2019	20.6	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP27	1	6/10/2019	330	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP28	1	6/10/2019	293	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP29	1	6/10/2019	426	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP30	1	6/10/2019	208	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP31	1	6/10/2019	1370	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	200						
SP32	1	6/10/2019	246	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP33	1	6/10/2019	347	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP34	1	6/10/2019	1100	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
		7/12/2019	40.2						
SP35	1	6/10/2019	1030	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	131						
SP36	1	6/10/2019	381	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP37	1	6/10/2019	454	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP38	1	6/10/2019	824	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	104						
SP39	1	6/10/2019	204	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP40	1	6/10/2019	449	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP41	1	6/10/2019	1210	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	111						
SP42	1	6/10/2019	1260	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	107						
SP43	1	6/10/2019	175	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP44	1	6/10/2019	451	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP45	1	6/10/2019	<20.0	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0

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
SP46	1	6/10/2019	185	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP47	1	6/10/2019	232	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP48	1	6/10/2019	294	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP49	1	6/10/2019	186	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP50	5	6/10/2019	229	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP51	5	6/10/2019	294	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP52	5	6/10/2019	105	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP53	5	6/10/2019	62.4	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP54	1	6/10/2019	314	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP55	1	6/10/2019	1070	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	48.6						
SP56	1	6/10/2019	299	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP57	1	6/10/2019	941	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	177						
SP58	1	6/10/2019	251	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP59	1	6/10/2019	243	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP60	1	6/10/2019	1590	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	40.6						
SP61	1	6/10/2019	1310	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	34.8						
SP62	1	6/10/2019	512	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP63	1	6/10/2019	396	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP64	1	6/10/2019	859	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	156						
SP65	1	6/10/2019	310	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP66	1	6/10/2019	989	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	79						
SP67	1	6/10/2019	243	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0

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
SP68	1	6/10/2019	323	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP69	1	6/10/2019	920	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	118						
SP70	1	6/10/2019	853	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	99.5						
SP71	1	6/10/2019	336	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP72	2	6/10/2019	568	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP73	1	6/10/2019	515	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP74	1	6/10/2019	196	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP75	1	6/10/2019	250	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP76	1	6/10/2019	3430	< 0.0250	<0.15	<20.0	34.2	< 50.0	< 104.2
SP77	1	6/10/2019	1480	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	192						
SP78	1	6/10/2019	6150	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	<60						
SP79	1	6/10/2019	7720	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	99.1						
SP80	1	6/10/2019	226	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP81	1	6/10/2019	2690	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	26.6						
SP82	1	6/10/2019	287	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP83	1	6/10/2019	70.3	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP84	1	6/10/2019	297	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP85	1	6/10/2019	307	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP86	1	6/10/2019	462	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP87	1	6/10/2019	628	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	69.7						
SP88	1	6/10/2019	381	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP89	1	6/10/2019	206	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP90	1	6/10/2019	597	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP91	1	6/10/2019	2070	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2	7/12/2019	78.7						

Ross Draw Unit #57 WPX			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
SP92	1	6/10/2019	691	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP93	2	6/10/2019	4000	< 0.0250	<0.15	<20.0	108	< 50.0	<178.0
	2.5	7/12/2019	149			<20.0	<25.0	< 50.0	
SP94	2	6/10/2019	218	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP95	2	6/10/2019	655	< 0.0250	<0.163	<20	3820	674	4494
	2.5	7/12/2019	133				<25.0	< 50.0	<75.0
SP96	2	6/10/2019	604	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP97	2	6/10/2019	288	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP98	2	6/10/2019	281	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP99	2	6/10/2019	295	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP100	2	6/10/2019	24.6	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP101	2	6/10/2019	358	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SP102	2	6/10/2019	1800	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	2.5	7/12/2019	146						
SP103	2	6/10/2019	46.3	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SW1	Composite	6/10/2019	3210	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	Composite	7/12/2019	23.4						
SW2	Composite	6/10/2019	1720	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	Composite	7/12/2019	208						
SW3	Composite	6/10/2019	873	< 0.0250	<0.15	<20.0	119	< 50.0	<189.0
	Composite	7/12/2019	364			<20.0	<25.0	< 50.0	<95.0
SW4	Composite	6/10/2019	1540	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	Composite	7/12/2019	213						
SW5	Composite	6/10/2019	925	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	Composite	7/12/2019	126						
SW6	Composite	6/10/2019	447	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SW7	Composite	6/10/2019	826	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
	Composite	7/12/2019	118						
SW8	Composite	6/10/2019	397	< 0.0250	<0.15	<20.0	<25.0	< 50.0	< 95.0
SW9	Composite	6/10/2019	3880	< 0.0250	<0.15	<20.0	196	54.8	<250.8
	Composite	7/12/2019	275			<20.0	<25.0	< 50.0	<95.0
SW10	Composite	6/10/2019	313	< 0.0250	<0.15	<20.0	37.8	< 50.0	<107.8
SW11	Composite	6/10/2019	4760	< 0.0250	<0.15	<20.0	248	74.7	<342.7
	Composite	7/12/2019	219			<20.0	<25.0	< 50.0	<95.0
SW12	Composite	6/10/2019	1470	< 0.0250	<0.15	<20.0	61.2	< 50.0	<131.2
	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)

☒ Crude Oil	Volume Released (bbls) 2	Volume Recovered (bbls) 1.5
☒ 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?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ 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

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email notification was sent on May 15, 2015 to BLM and OCD.	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ 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@wpenergy.com	Telephone: 575-885-7561
<u>OCD Only</u>	
Received by: 	Date: 5/29/2019



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.



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:



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)
 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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.2 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		98.3 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.2 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		98.3 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.4 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		99.5 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.4 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		99.5 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.0 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		98.6 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.0 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		98.6 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.6 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		99.8 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.6 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		99.8 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		98.2 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		98.2 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		99.7 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		99.7 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 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

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)
 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

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)
 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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		97.9 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		97.9 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		104 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		104 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.4 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		105 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.4 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		105 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
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

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
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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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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

24 Hour Emergency Response Phone (800) 362-1879

envirotech-inc.com

Labadmin@envirotech-inc.com

Page 23 of 29

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
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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)
 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 - GRO - Quality Control
Envirotech Analytical Laboratory

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

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

Prepared & Analyzed: 06/12/19 1

Chloride	ND	20.0	mg/kg
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LCS (1924019-BS1)

Prepared & Analyzed: 06/12/19 1

Chloride	256	20.0	mg/kg	250	102	90-110
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Matrix Spike (1924019-MS1)
Source: P906042-01

Prepared & Analyzed: 06/12/19 1

Chloride	1060	20.0	mg/kg	250	757	120	80-120
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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
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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> Project: <u>Ross Draw Unit #57</u> Project Manager: <u>Alexis 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						TAT		EPA Program					
								Lab WO# <u>P906042</u>			Job Number <u>04108-0369</u>			1D	3D	RCRA	CWA	SDWA			
								Analysis and Method											State		
								DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0						NM	CO	UT
											Remarks										
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number																
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: <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)		Date	Time	Received by: (Signature)		Date	Time	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>													
<u>Kevin</u> <u>FedEx</u>		6/11/2019	10:45	<u>Carlene Small</u> <u>Jessie A. Huff</u>		6/11/19	10:45														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other <u> </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 Checkstad</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						TAT		EPA Program			
										Lab WO#			Job Number			1D	3D	RCRA	CWA	SDWA	
										Analysis and Method						State					
										DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					NM	CO
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number											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: <u>Kevin</u>										<u>u.s. ice in cooler</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)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
<u>Kevin Amos</u> <u>FedEx</u>		<u>6/11/2019</u>		<u>10:45</u>		<u>Britney Stovall</u> <u>Jessica J. Myer</u>		<u>6/11/19</u>		<u>10:45</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:



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)
 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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.9 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		104 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.9 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		104 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 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

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)
 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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		106 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		106 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 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

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)
 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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		105 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		105 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.0 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		103 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.0 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		103 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 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

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)
 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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		103 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		103 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		105 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		105 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.6 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.6 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 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

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)
 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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		103 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		103 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 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

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)
 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

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
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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)
 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

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
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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)
 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

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
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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	Reported: 06/18/19 10:29
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
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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							
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LCS (1924029-BS1)

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

Chloride	257	20.0	mg/kg	250		103	90-110			
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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			
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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	
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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 Carlsbad</u> Project: <u>Rock Draw Unit #157</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: <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>			
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	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 <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 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 <u> </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>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

Relinquished by: (Signature) Kevin Date 6/11/2019 Time 10:45 Received by: (Signature) Courtney Strahl Date 6/11/19 Time 10:45

Relinquished by: (Signature) FedEx Date 6/12/19 Time 10:00 Received by: (Signature) Jessica M. M. 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: 6/12/2019

Job Number: 04108-0369

Work Order: P906044

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:



Date: 6/18/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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 13:28

Analytical Report for Samples

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

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

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

Reported:
 06/18/19 13:28

SP41
P906044-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

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

Nonhalogenated Organics by 8015 - DRO/ORO

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

Nonhalogenated Organics by 8015 - GRO

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

Anions by 300.0/9056A

Chloride	1210	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP42
P906044-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

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

Nonhalogenated Organics by 8015 - DRO/ORO

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

Nonhalogenated Organics by 8015 - GRO

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

Anions by 300.0/9056A

Chloride	1260	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP43
P906044-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.1 %		70-130	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		99.1 %		70-130	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.1 %		70-130	1924024	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		99.1 %		70-130	1924024	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP44
P906044-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

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

Nonhalogenated Organics by 8015 - DRO/ORO

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

Nonhalogenated Organics by 8015 - GRO

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

Anions by 300.0/9056A

Chloride	451	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP45
P906044-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		70-130	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		98.5 %		70-130	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		70-130	1924024	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		98.5 %		70-130	1924024	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		97.2 %		70-130	1924024	06/12/19	06/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP46
P906044-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

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

Nonhalogenated Organics by 8015 - DRO/ORO

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

Nonhalogenated Organics by 8015 - GRO

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

Anions by 300.0/9056A

Chloride	185	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP47
P906044-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

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

Nonhalogenated Organics by 8015 - DRO/ORO

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

Nonhalogenated Organics by 8015 - GRO

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

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)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP48
P906044-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %		70-130	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		98.3 %		70-130	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %		70-130	1924024	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		98.3 %		70-130	1924024	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		97.1 %		70-130	1924024	06/12/19	06/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	294	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP49
P906044-09 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

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

Nonhalogenated Organics by 8015 - DRO/ORO

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

Nonhalogenated Organics by 8015 - GRO

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

Anions by 300.0/9056A

Chloride	186	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP50
P906044-10 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.9 %		70-130	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		99.9 %		70-130	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.9 %		70-130	1924024	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		99.9 %		70-130	1924024	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP51
P906044-11 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

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

Nonhalogenated Organics by 8015 - DRO/ORO

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

Nonhalogenated Organics by 8015 - GRO

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

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)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP52
P906044-12 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

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

Nonhalogenated Organics by 8015 - DRO/ORO

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

Nonhalogenated Organics by 8015 - GRO

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

Anions by 300.0/9056A

Chloride	105	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP53
P906044-13 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %		70-130	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		97.7 %		70-130	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %		70-130	1924024	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		97.7 %		70-130	1924024	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP54
P906044-14 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

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

Nonhalogenated Organics by 8015 - DRO/ORO

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

Nonhalogenated Organics by 8015 - GRO

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

Anions by 300.0/9056A

Chloride	314	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP55
P906044-15 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

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

Nonhalogenated Organics by 8015 - DRO/ORO

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

Nonhalogenated Organics by 8015 - GRO

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

Anions by 300.0/9056A

Chloride	1070	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP56
P906044-16 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

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

Nonhalogenated Organics by 8015 - DRO/ORO

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

Nonhalogenated Organics by 8015 - GRO

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

Anions by 300.0/9056A

Chloride	299	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP57
P906044-17 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

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

Nonhalogenated Organics by 8015 - DRO/ORO

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

Nonhalogenated Organics by 8015 - GRO

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

Anions by 300.0/9056A

Chloride	941	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP58
P906044-18 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

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

Nonhalogenated Organics by 8015 - DRO/ORO

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

Nonhalogenated Organics by 8015 - GRO

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

Anions by 300.0/9056A

Chloride	251	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP59
P906044-19 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

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

Nonhalogenated Organics by 8015 - DRO/ORO

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

Nonhalogenated Organics by 8015 - GRO

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

Anions by 300.0/9056A

Chloride	243	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/18/19 13:28

SP60
P906044-20 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.9 %		70-130	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1924024	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.9 %		70-130	1924024	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1924024	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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)
5315 Buena Vista Dr
Carlsbad NM, 88220

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

Reported:
06/18/19 13:28

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1924024 - Purge and Trap EPA 5030A

Blank (1924024-BLK1)

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

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

LCS (1924024-BS1)

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

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

Matrix Spike (1924024-MS1)

Source: P906044-01

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

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

Matrix Spike Dup (1924024-MSD1)

Source: P906044-01

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

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

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

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

Reported:
 06/18/19 13:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1924027 - DRO Extraction EPA 3570
Blank (1924027-BLK1)

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

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

LCS (1924027-BS1)

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

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

Matrix Spike (1924027-MS1)

Source: P906044-01

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

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

Matrix Spike Dup (1924027-MSD1)

Source: P906044-01

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

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

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

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

Reported:
 06/18/19 13:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1924024 - Purge and Trap EPA 5030A
Blank (1924024-BLK1)

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

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

LCS (1924024-BS2)

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

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

Matrix Spike (1924024-MS2)

Source: P906044-01

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

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

Matrix Spike Dup (1924024-MSD2)

Source: P906044-01

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

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

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

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

Reported:
 06/18/19 13:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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
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LCS (1924032-BS1)

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

Chloride	271	20.0	mg/kg	250	108	90-110
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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
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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
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QC Summary Report
Comment:

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

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

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

Reported:
 06/18/19 13:28

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

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Client: <u>WPX Carlsbad</u> 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>P 906044</u> Job Number <u>04108-0369</u> Analysis and Method: _____ State: _____ NM ☒ CO ☐ UT ☐ AZ ☐				TAT 1D ☐ 3D ☐		EPA Program RCRA ☐ CWA ☐ SDWA ☐	
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Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks			
	6/10/19	Soil	1	SP 41	1	X	X	X			X				
	↓	↓	↓	SP 42	2										
	↓	↓	↓	SP 43	3										
	↓	↓	↓	SP 44	4										
	↓	↓	↓	SP 45	5										
	↓	↓	↓	SP 46	6										
	↓	↓	↓	SP 47	7										
	↓	↓	↓	SP 48	8										
	↓	↓	↓	SP 49	9										
	↓	↓	↓	SP 50	10	↓	↓	↓			↓				

Additional Instructions: v-s ice in cooler

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

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

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

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

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

Page 29 of 29

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:



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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
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

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
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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)
 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

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

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

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
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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)
 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

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
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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)
 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

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: _____				TAT 1D _____ 3D _____		EPA Program RCRA _____ CWA _____ SDWA _____ State: _____ NM _____ CO _____ UT _____ AZ _____ X _____			
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	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: Kerr

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>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>	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. Myff</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>	

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>P 906045</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> </u> CO <u> </u> UT <u> </u> AZ <u> </u> X <u> </u> <u> </u> <u> </u> <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 71	11	X	X	X			X						
				SP 72	12												
				SP 73	13												
				SP 74	14												
				SP 75	15												
				SP 76	16												
				SP 77	17												
				SP 78	18												
				SP 79	19												
				SP 80	20												

Additional Instructions: vrs rich cooler

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

Relinquished by: (Signature) <u>Kevin</u>	Date <u>6/11/2019</u>	Time <u>10:47</u>	Received by: (Signature) <u>Courtney Small</u>	Date <u>6/11/19</u>	Time <u>10:49</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>Fed Ex</u>	Date <u>6/12/19</u>	Time <u>10:00</u>	Received by: (Signature) <u>Jessica A. [Signature]</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: P906046

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:



Date: 6/18/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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 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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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
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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
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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)
 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 - GRO - Quality Control
Envirotech Analytical Laboratory

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

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
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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
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LCS (1924041-BS1)

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

Chloride	274	20.0	mg/kg	250	109	90-110
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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
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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
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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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Page 24 of 25

Page 25 of 25

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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)
 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

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
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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)
 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 - DRO/ORO - Quality Control
Envirotech Analytical Laboratory

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

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
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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>			
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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.

115 ice in cooler
 Received on ice: Y N
 T1 T2 T3
 AVG Temp °C 4

Client: <u>WPX Carlsbad</u> Project: <u>Ross Draw Unit #57</u> Project Manager: <u>Kniz Rave</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						TAT		EPA Program					
										Lab WO# <u>P906047</u>			Job Number <u>04108-0369</u>			1D	3D	RCRA	CWA	SDWA			
										Analysis and Method										State			
										DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0						NM	CO	UT
										☒													
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number											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: <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. <u>v.s ice in cooler</u>													
Relinquished by: (Signature) <u>Kevin</u>		Date <u>6/11/19</u>		Time <u>2:00p</u>		Received by: (Signature) <u>Kevin</u>		Date <u>6/11/19</u>		Time <u>2:00pm</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</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: 7/13/2019

Job Number: 04108-0639

Work Order: P907036

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:



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)
 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

SP1
P907036-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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
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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)
 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

SP3
P907036-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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)
 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

SP5
P907036-05 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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)
 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

SP6
P907036-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Anions by 300.0/9056A

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	123	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

SP9
P907036-07 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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)
 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

SP10
P907036-08 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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)
 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

SP11
P907036-09 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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)
 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

SP12
P907036-10 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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)
 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

SP20
P907036-11 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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)
 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

SP31
P907036-12 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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)
 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

SP34
P907036-13 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Anions by 300.0/9056A

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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)
 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

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)
 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

SP38
P907036-15 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Anions by 300.0/9056A

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	104	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

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)
 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

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)
 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

SP57
P907036-19 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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
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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
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LCS (1929001-BS1)

Prepared: 07/15/19 0 Analyzed: 07/15/19 1

Chloride	254	20.0	mg/kg	250	102	90-110
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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
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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
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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> 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>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 ☒ 3D ☒		EPA Program RCRA ☐ CWA ☐ SDWA ☐ State: <u>↓</u> 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
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>WPX Carlsbad</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 ☒ 3D ☐		EPA Program RCRA ☐ CWA ☐ SDWA ☐ State: <u> </u> 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
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: <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</u>				Date <u>7/12/2019</u>		Time <u>2:40pm</u>		Received by: (Signature) <u>Colin</u>				Date <u>7/12/19</u>		Time <u>2:50</u>		Lab Use Only Received on ice: ☒ Y / ☐ N				
Relinquished by: (Signature) <u>Kenna</u>				Date <u>7/13/19</u>		Time <u>10:15am</u>		Received by: (Signature) <u> </u>				Date <u> </u>		Time <u> </u>		T1 <u> </u> T2 <u> </u> T3 <u> </u> AVG Temp °C <u>4</u>				
Sample Matrix: S - Soil, Sd - Solid, Sl - Sludge, A - Aqueous, O - Other <u> </u>												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA <u> </u>								
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:



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)
 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

SP61
P907037-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Anions by 300.0/9056A

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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)
 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

SP64
P907037-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Anions by 300.0/9056A

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	156	20.0	mg/kg	1	1929005	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

SP66
P907037-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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	
5315 Buena Vista Dr	Project Number: 04108-0639	Reported:
Carlsbad NM, 88220	Project Manager: Kris Rowe	07/17/19 14:45

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)
 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

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)
 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

SP76
P907037-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Anions by 300.0/9056A

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	192	20.0	mg/kg	1	1929005	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

SP78
P907037-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Anions by 300.0/9056A

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	ND	20.0	mg/kg	1	1929005	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

SP79
P907037-08 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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)
 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

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)
 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

SP87
P907037-10 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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)
 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

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)
 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

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)
 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

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)
 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

SP102
P907037-14 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Anions by 300.0/9056A

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	146	20.0	mg/kg	1	1929005	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

SW1
P907037-15 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Anions by 300.0/9056A

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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)
 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

SW2
P907037-16 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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)
 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

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)
 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

SW4
P907037-18 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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	Reported: 07/17/19 14:45
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Kris Rowe	

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)
 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

SW7
P907037-20 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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)
 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

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)
 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

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	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Kris Rowe	07/17/19 14:45

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)
 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

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
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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
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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
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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)
 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
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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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Page 32 of 37

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: _____ 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 ☒ 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								
				SP 91	11						X								
				SP 93	12	X	X				X								
				SP 95	13	X	X				X								
				SP 102	14						X								
				SW1	15						X								
				SW2	16						X								
				SW3	17	X	X				X								
				SW4	18						X								
				SW5	19						X								
				SW7	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: Kerin
 Relinquished by: (Signature) Karin Davis Date 7/12/2019 Time 2:40pm Received by: (Signature) Courtney Stoval Date 7/12/19 Time 2:50
 Relinquished by: (Signature) Karin Lopez Date 7/13/19 Time 10:15am Received by: (Signature) _____ Date _____ Time _____
 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>WFX 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									X			
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			
				SWa	21	X	X				X				
				SW11	22	X	X								
				SW12	23										
				SP 101	24	X	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: 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 _____ 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.



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Client: <u>WJPK Carlisbad</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>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>P907037</u> Job Number <u>04108-0639</u> Analysis and Method: <u> </u>				TAT 1D ☒ 3D ☐		EPA Program RCRA ☐ CWA ☐ SDWA ☐ State: <u> </u> 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					
	<u>7/12/2019</u>	<u>2m Per cent</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 Received on ice: <u>0</u> / N T1 <u> </u> T2 <u> </u> T3 <u> </u> AVG Temp °C <u>4</u>					
Relinquished by: (Signature) <u>Rain Lopez</u>		Date <u>7/13/19</u>		Time <u>10:15am</u>		Received by: (Signature) <u> </u>		Date <u> </u>		Time <u> </u>							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other <u> </u>										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA <u> </u>							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	

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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

