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	NCE2002428762
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC.	OGRID: 246289
Contact Name: Lynda Laumbach	Contact Telephone: (575) 725-1647
Contact email: Lynda.Laumbach@wpxenergy.com	Incident # *(assigned by OCD)*
Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.35343 Longitude -104.17968
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Warren Fee #001 (Hepler/Warren pad)	Site Type: Production Facility
Date Release Discovered: 11/15/2019	API# *(if applicable): 30-015-42014*

Unit Letter	Section	Township	Range	County
C	34	22S	27E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private

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) 1/2	Volume Recovered (bbls) 0
☒ Produced Water	Volume Released (bbls) 26.5	Volume Recovered (bbls) 25
	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: Gasket failure on vertical separator caused 27 bbl(s) of fluid to release into lined secondary containment. 25 bbl(s) of fluid was recovered with a vacuum truck. ~2 bbl(s) of fluid sprayed out of containment into the pasture.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	NCE2002428762
Facility ID	
Application ID	

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? Volume exceeded 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Verbal and email notification to Mike Bratcher on 11/15/2019.	

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 not 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: Lynda Laumbach Title: Environmental Specialist

Signature: Lynda Laumbach Date: 11/18/2019

email: Lynda.Laumbach@wpxenergy.com Telephone: (575) 725-1647

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	NCE2002428762
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<50 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	NCE2002428762
Facility ID	
Application ID	

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: Lynda Laumbach Title: Environmental Specialist

Signature: Lynda Laumbach Date: 07/28/2020

email: Lynda.Laumbach@wpxenergy.com Telephone: (575)-725-1647

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	NCE2002428762
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: Lynda Laumbach Title: Environmental Specialist

Signature: Lynda Laumbach Date: 07/28/2020

email: Lynda.Laumbach@wpxenergy.com Telephone: (575)-725-1647

OCD Only

Received by: Cristina Eads Date: 07/29/2020

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: Cristina Eads Date: 09/21/2020

Printed Name: Cristina Eads Title: Environmental Specialist

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC.	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: james.raley@wpxenergy.com	Incident # *(assigned by OCD)*
Contact mailing address: 5315 Buena Vista Dr., Carlsbad, NM 88220	

Location of Release Source

Latitude 32.35109 Longitude -104.17955
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: HEPLER FEE #001	Site Type: Production Facility
Date Release Discovered: 7/11/2020	API# *(if applicable): 30-015-42350*

Unit Letter	Section	Township	Range	County
F	34	22S	27E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private

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)2
☒ Produced Water	Volume Released (bbls) 33	Volume Recovered (bbls) 33
	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: Hole in fire tube allowed approx. 35 bbls of fluids to be released to lined secondary containment, fluids fully recovered. Liner to be inspected.

$bbl\ estimate$ = recovered fluids (bbl)

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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? Volume exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email to NMOCD District II Office and NMOCD Director on 7/11/2020.	

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.

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Printed Name: Jim Raley

Title: Environmental Specialist

Signature: Jim Raley

Date: 7/14/2020

email: james.raley@wpxenergy.com

Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	NRM2019959765
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<50 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
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Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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- ☒ Topographic/Aerial maps
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Page 4

State of New Mexico
Oil Conservation Division

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District RP	NRM2019959765
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Printed Name: Lynda Laumbach Title: Environmental Specialist

Signature: Lynda Laumbach Date: 07/28/2020

email: Lynda.Laumbach@wpxenergy.com Telephone: (575)-725-1647

OCD Only

Received by: Date:

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	NRM2019959765
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Closure

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

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☒ 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: Lynda Laumbach Title: Environmental Specialist

Signature: Lynda Laumbach Date: 07/28/2020

email: Lynda.Laumbach@wpxenergy.com Telephone: (575)-725-1647

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: _____

July 29, 2020
Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210

Re: Hepler Fee #001 Release Closure Request (NCE2002428762 & NRM2019959765)

Mr. Bratcher,

This report summarizes the continued delineation sampling, and secondary containment inspection activities at the Hepler Fee #001 well pad (Site). The Site map is included as Figure 01. The initial closure report for Incident# NCE2002428762 was sent in on February 13, 2020 and denied closure on March 20, 2020 due to lack of sampling in the pasture. Please reference previous report for additional information on this release. While addressing Incident# NCE2002428762, the release denoted as Incident# NRM2019959765 occurred on July 11, 2020 when the firetube on the vertical separator developed a leak and caused 33 barrels (bbls) of produced water and 2 bbls of oil to be released inside the lined secondary containment. All fluids were recovered via vacuum truck on the day of the release.

Well Location: Hepler Fee #001
*API #:*30-015-42014
NMOCD Reference #: NCE2002428762 & NRM2019959765
Site Characterization Standards: 600 milligrams per kilogram (mg/kg) Chloride, 50 mg/kg Benzene, Toluene, Ethylbenzene, and xylenes (BTEX), 10 mg/kg Benzene, 100 mg/kg Total Petroleum Hydrocarbons (TPH) [please see previous report for additional information]

Field Activities
To address issues with the initial closure report for NCE2002428762, on June 18, 2020 WPX notified the NMOCD that sampling would take place on June 24, 2020. Samples Surface01 through Surface16 were sampled on June 24, 2020. Sample locations are located on Figure 02 and pictures are provided in Attachment 01. Samples taken on June 24, 2020 are in the original release extent. As depicted on the Figure02, WPX scraped an area larger than the original release extent per landowner request.
On July 13, 2020, the containment was power washed in response to NRM2019959765 to prepare containment for inspection. The NMOCD was provided notification of a liner inspection via email on July 17, 2020 for an inspection date of July 23, 2020. The liner inspection was completed on July 22, 2020 and pictures are provided in Attachment 01.

Sampling Activities & Laboratory Analytical Results
Discrete delineation samples were taken throughout the misted area west of the pad. All samples were taken with decontaminated equipment, jarred in precleaned glass soil jars, labelled with sample name, date, Site name, and depth, and immediately placed on ice to lower sample temperatures below 4° Celsius, adhering to strict chain of custody of Etech laboratories. Analysis

was completed at Etech Laboratories in Albuquerque, NM. All samples were analyzed for Chlorides via Method EPA 300.0, TPH via Method 8015M, and BTEX via Method 8021B.

Laboratory Analytical Results

The laboratory analytical results for the discrete samples were compliant with the closure criteria for this Site. Delineation sample results, Surface01- Surface16, are below the allowable standards for Chloride, BTEX, and TPH. The sample results are summarized in Table 1 of this report and the corresponding laboratory results are provided in Attachment 02.

- Chloride samples ranged from below the laboratory detectable limit to 49.2 mg/kg
- BTEX analysis was below the Laboratory detectable limit
- Benzene analysis was below the Laboratory detectable limit
- TPH was below the Laboratory detectable limit

Conclusions

The laboratory analytical results to address the impacted soils from NCE2002428762 demonstrates compliance with the Table 1 Closure Criteria set forth by the NMOCD. The secondary containment was determined to be intact and functioning properly to contain releases in response to incident NRM2019959765. Actions to mitigate initial impacts of this site have proven a successful remediation. WPX requests no further action for this incident. Both C-141s are included at the beginning of this report.

If any questions or further information is warranted, please do not hesitate to contact me at (575) 725-1647 or by email at Lynda.Laumbach@wpxenergy.com.

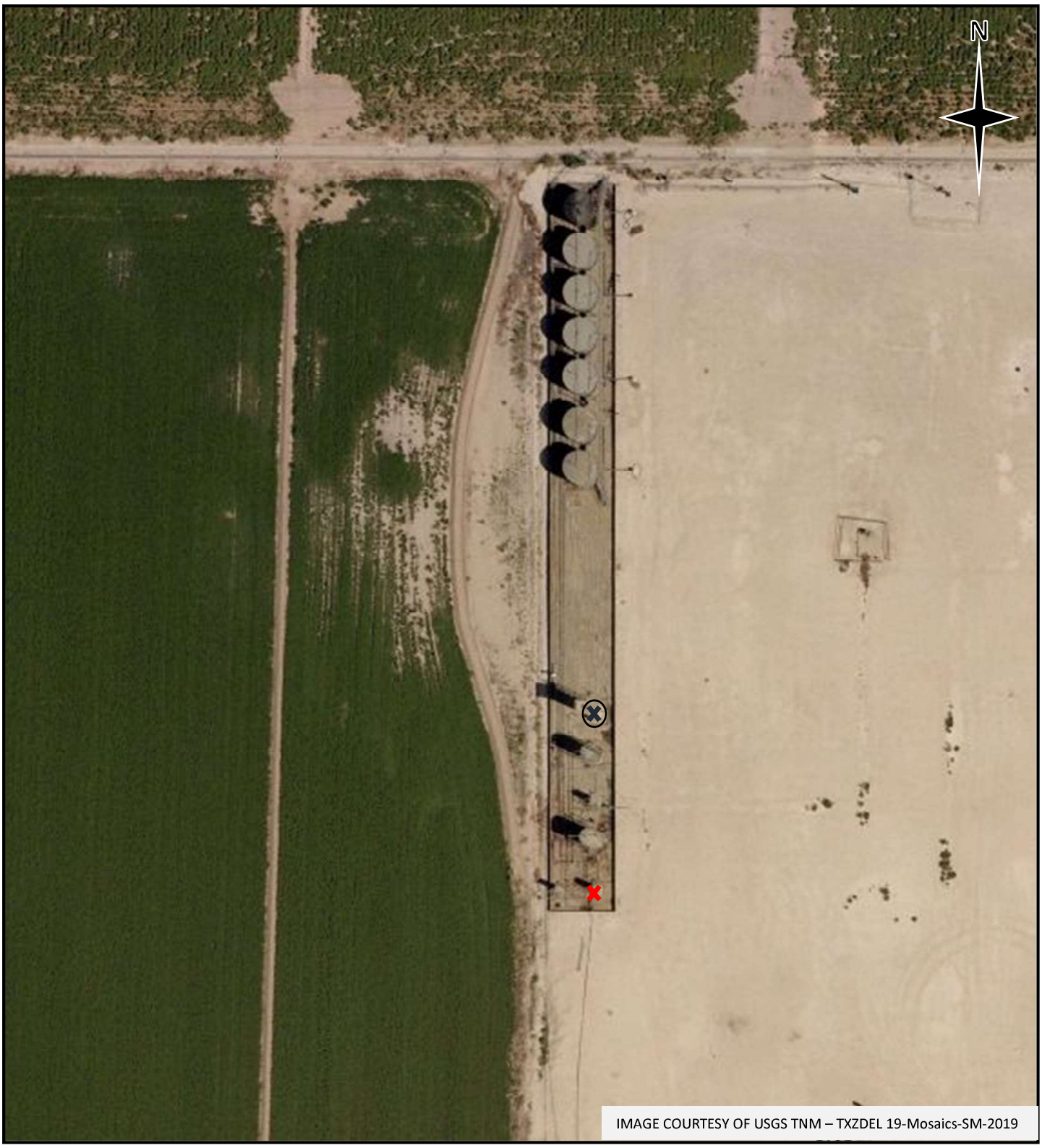
Best regards,

Lynda Laumbach
Environmental Specialist

CC: Robert Hamlet, NMOCD
Victoria Venegas, NMOCD

Attachments:
Figure 01 Site Map
Figure 02 Delineation Activities
Table 01 Sample Results
Attachment 01 Photograph Log
Attachment 02 Laboratory Analytical Results

Figures



WPXENERGY

0 50 100ft

Legend

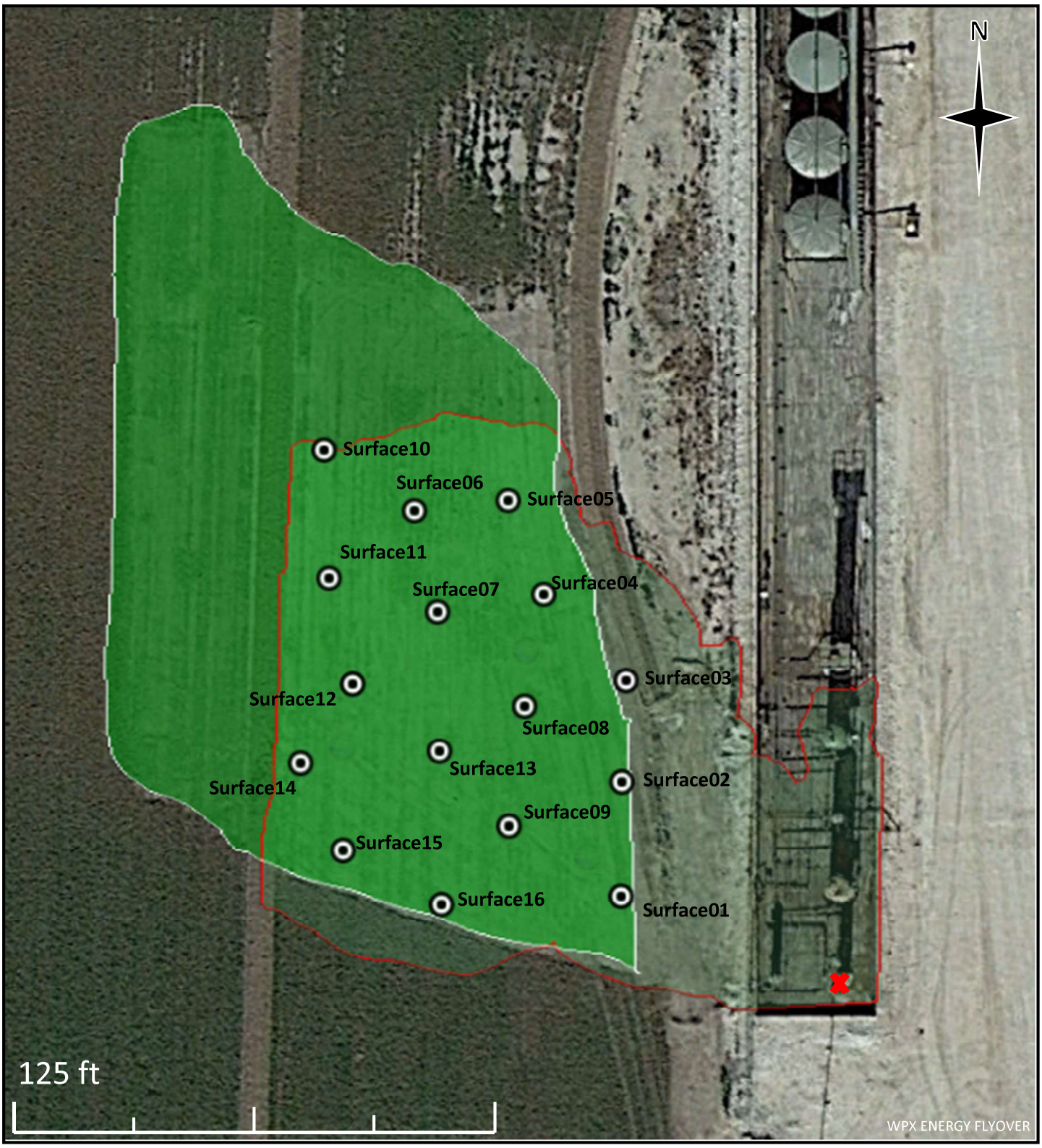
NCE2002428762

NRM2019959765

Figure 01
Hepler Fee #001
30-015-42014

Permian Basin, Eddy County, NM

32.353409, -104.179672



WPXENERGY

Legend

- Point of Release (NCE2002428762)
- Scraped Surface
- Release Extent

Figure 02
Hepler Fee #001
30-015-42014

Permian Basin, Eddy County, NM

32.353409, -104.179672

Table

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS

HEPLER FEE #001
NMOCD REFERENCE NUMBER: NCE2002428762

Sample Name	Depth (ft bgs)	Sample Date	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	GRO + DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
Surface01	0-0.08	6/24/2020	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	30.2
Surface02	0-0.08	6/24/2020	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	26.0
Surface03	0-0.08	6/24/2020	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	28.3
Surface04	0-0.08	6/24/2020	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
Surface05	0-0.08	6/24/2020	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	39.9
Surface06	0-0.08	6/24/2020	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	40.3
Surface07	0-0.08	6/24/2020	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	43.4
Surface08	0-0.08	6/24/2020	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	39.7
Surface09	0-0.08	6/24/2020	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	43.5
Surface10	0-0.08	6/24/2020	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	49.2
Surface11	0-0.08	6/24/2020	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	34.3
Surface12	0-0.08	6/24/2020	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	38.2
Surface13	0-0.08	6/24/2020	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	40.8
Surface14	0-0.08	6/24/2020	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	23.4
Surface15	0-0.08	6/24/2020	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
Surface16	0-0.08	6/24/2020	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
NMOCD Table 1 Closure Criteria			**10**	**50**	**NE**	**NE**	**NE**	**NE**	**100**	**600.0**

Reference:
- BTEX: benzene, toluene, ethylbenzene, and total xylenes
- GRO: gasoline range organics
- DRO: diesel range organics
- ft bgs: feet below ground surface
- mg/kg: milligrams per kilogram
- NMOCD: New Mexico Oil Conservation Division
- TPH: total petroleum hydrocarbons
- NMOCD Table 1 Closure Criteria: NMAC 19.15.29 August 2018 criteria for soils impacted based on characterization

Attachment 01:

Photograph Log

Picture 1- West face, west edge of Site	Picture 2- North face, west edge of Site
24-Jun-20 	24-Jun-20 
Picture 3- West face, west edge of Site	**Picture 4- Northwest face, west edge of Site**
24-Jun-20 	24-Jun-20 

Picture 5- South face, south edge of TB	Picture 6- northeast face, southeast edge of TB
23-Jul-20 	23-Jul-20 
Picture 7- North face, south edge of TB	Picture 8- North face, middle of TB
23-Jul-20 	23-Jul-20 

Attachment 02:
Analytical Reports

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Analytical Laboratory

Analytical Report

Report Summary

Client: WPX Energy - Carlsbad

Samples Received: 6/25/2020

Job Number: 04108-0639

Work Order: P006080

Project Name/Location: Hepler Fee #001

Report Reviewed By: Walter Hinchman Date: 6/30/20

Walter Hinchman, Laboratory Director

NELAP ACCREDITED TNI LABORATORY

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, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Analytical Laboratory

WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Surface 01	P006080-01A	Soil	06/24/20	06/25/20	Glass Jar, 4 oz.
Surface 02	P006080-02A	Soil	06/24/20	06/25/20	Glass Jar, 4 oz.
Surface 03	P006080-03A	Soil	06/24/20	06/25/20	Glass Jar, 4 oz.
Surface 04	P006080-04A	Soil	06/24/20	06/25/20	Glass Jar, 4 oz.
Surface 05	P006080-05A	Soil	06/24/20	06/25/20	Glass Jar, 4 oz.
Surface 06	P006080-06A	Soil	06/24/20	06/25/20	Glass Jar, 4 oz.
Surface 07	P006080-07A	Soil	06/24/20	06/25/20	Glass Jar, 4 oz.
Surface 08	P006080-08A	Soil	06/24/20	06/25/20	Glass Jar, 4 oz.
Surface 09	P006080-09A	Soil	06/24/20	06/25/20	Glass Jar, 4 oz.
Surface 10	P006080-10A	Soil	06/24/20	06/25/20	Glass Jar, 4 oz.
Surface 11	P006080-11A	Soil	06/24/20	06/25/20	Glass Jar, 4 oz.
Surface 12	P006080-12A	Soil	06/24/20	06/25/20	Glass Jar, 4 oz.
Surface 13	P006080-13A	Soil	06/24/20	06/25/20	Glass Jar, 4 oz.
Surface 14	P006080-14A	Soil	06/24/20	06/25/20	Glass Jar, 4 oz.
Surface 15	P006080-15A	Soil	06/24/20	06/25/20	Glass Jar, 4 oz.
Surface 16	P006080-16A	Soil	06/24/20	06/25/20	Glass Jar, 4 oz.

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WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Surface 01
P006080-01 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2026021
Benzene	ND	0.0250	1	06/25/20	06/25/20		
Toluene	ND	0.0250	1	06/25/20	06/25/20		
Ethylbenzene	ND	0.0250	1	06/25/20	06/25/20		
p,m-Xylene	ND	0.0500	1	06/25/20	06/25/20		
o-Xylene	ND	0.0250	1	06/25/20	06/25/20		
Total Xylenes	ND	0.0250	1	06/25/20	06/25/20		
Surrogate: 4-Bromochlorobenzene-PID		*105 %*	*50-150*	*06/25/20*	*06/25/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2026027
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/20	06/26/20		
Oil Range Organics (C28-C40)	ND	50.0	1	06/26/20	06/26/20		
Surrogate: n-Nonane		*113 %*	*50-200*	*06/26/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2026021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/25/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*50-150*	*06/25/20*	*06/25/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2026019
Chloride	**30.2**	20.0	1	06/25/20	06/26/20		

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Analytical Laboratory

WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Surface 02
P006080-02 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2026021
Benzene	ND	0.0250	1	06/25/20	06/25/20		
Toluene	ND	0.0250	1	06/25/20	06/25/20		
Ethylbenzene	ND	0.0250	1	06/25/20	06/25/20		
p,m-Xylene	ND	0.0500	1	06/25/20	06/25/20		
o-Xylene	ND	0.0250	1	06/25/20	06/25/20		
Total Xylenes	ND	0.0250	1	06/25/20	06/25/20		
Surrogate: 4-Bromochlorobenzene-PID		*106 %*	*50-150*	*06/25/20*	*06/25/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2026027
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/20	06/26/20		
Oil Range Organics (C28-C40)	ND	50.0	1	06/26/20	06/26/20		
Surrogate: n-Nonane		*115 %*	*50-200*	*06/26/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2026021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/25/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.3 %*	*50-150*	*06/25/20*	*06/25/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2026019
Chloride	**26.0**	20.0	1	06/25/20	06/26/20		

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WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Surface 03
P006080-03 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2026021
Benzene	ND	0.0250	1	06/25/20	06/25/20		
Toluene	ND	0.0250	1	06/25/20	06/25/20		
Ethylbenzene	ND	0.0250	1	06/25/20	06/25/20		
p,m-Xylene	ND	0.0500	1	06/25/20	06/25/20		
o-Xylene	ND	0.0250	1	06/25/20	06/25/20		
Total Xylenes	ND	0.0250	1	06/25/20	06/25/20		
Surrogate: 4-Bromochlorobenzene-PID		*104 %*	*50-150*	*06/25/20*	*06/25/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2026027
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/20	06/26/20		
Oil Range Organics (C28-C40)	ND	50.0	1	06/26/20	06/26/20		
Surrogate: n-Nonane		*84.3 %*	*50-200*	*06/26/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2026021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/25/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.1 %*	*50-150*	*06/25/20*	*06/25/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2026019
Chloride	**28.3**	20.0	1	06/25/20	06/26/20		

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WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Surface 04
P006080-04 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2026021
Benzene	ND	0.0250	1	06/25/20	06/26/20		
Toluene	ND	0.0250	1	06/25/20	06/26/20		
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20		
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20		
o-Xylene	ND	0.0250	1	06/25/20	06/26/20		
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20		
Surrogate: 4-Bromochlorobenzene-PID		*107 %*	*50-150*	*06/25/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2026027
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/20	06/26/20		
Oil Range Organics (C28-C40)	ND	50.0	1	06/26/20	06/26/20		
Surrogate: n-Nonane		*89.6 %*	*50-200*	*06/26/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2026021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.8 %*	*50-150*	*06/25/20*	*06/26/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2026019
Chloride	ND	20.0	1	06/25/20	06/26/20		

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WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Surface 05
P006080-05 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2026021
Benzene	ND	0.0250	1	06/25/20	06/26/20		
Toluene	ND	0.0250	1	06/25/20	06/26/20		
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20		
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20		
o-Xylene	ND	0.0250	1	06/25/20	06/26/20		
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20		
Surrogate: 4-Bromochlorobenzene-PID		*105 %*	*50-150*	*06/25/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2026027
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/20	06/26/20		
Oil Range Organics (C28-C40)	ND	50.0	1	06/26/20	06/26/20		
Surrogate: n-Nonane		*80.1 %*	*50-200*	*06/26/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2026021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.7 %*	*50-150*	*06/25/20*	*06/26/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2026019
Chloride	**39.9**	20.0	1	06/25/20	06/26/20		

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WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Surface 06
P006080-06 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2026021
Benzene	ND	0.0250	1	06/25/20	06/26/20		
Toluene	ND	0.0250	1	06/25/20	06/26/20		
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20		
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20		
o-Xylene	ND	0.0250	1	06/25/20	06/26/20		
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20		
Surrogate: 4-Bromochlorobenzene-PID		*104 %*	*50-150*	*06/25/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2026027
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/20	06/26/20		
Oil Range Organics (C28-C40)	ND	50.0	1	06/26/20	06/26/20		
Surrogate: n-Nonane		*93.1 %*	*50-200*	*06/26/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2026021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.6 %*	*50-150*	*06/25/20*	*06/26/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2026019
Chloride	**40.3**	20.0	1	06/25/20	06/26/20		

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WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Surface 07
P006080-07 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2026021
Benzene	ND	0.0250	1	06/25/20	06/26/20		
Toluene	ND	0.0250	1	06/25/20	06/26/20		
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20		
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20		
o-Xylene	ND	0.0250	1	06/25/20	06/26/20		
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20		
Surrogate: 4-Bromochlorobenzene-PID		*107 %*	*50-150*	*06/25/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2026027
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/20	06/26/20		
Oil Range Organics (C28-C40)	ND	50.0	1	06/26/20	06/26/20		
Surrogate: n-Nonane		*88.0 %*	*50-200*	*06/26/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2026021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.4 %*	*50-150*	*06/25/20*	*06/26/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2026019
Chloride	**43.4**	20.0	1	06/25/20	06/26/20		

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WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Surface 08
P006080-08 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2026021
Benzene	ND	0.0250	1	06/25/20	06/26/20		
Toluene	ND	0.0250	1	06/25/20	06/26/20		
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20		
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20		
o-Xylene	ND	0.0250	1	06/25/20	06/26/20		
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20		
Surrogate: 4-Bromochlorobenzene-PID		*106 %*	*50-150*	*06/25/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2026027
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/20	06/26/20		
Oil Range Organics (C28-C40)	ND	50.0	1	06/26/20	06/26/20		
Surrogate: n-Nonane		*95.0 %*	*50-200*	*06/26/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2026021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.0 %*	*50-150*	*06/25/20*	*06/26/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2026019
Chloride	**39.7**	20.0	1	06/25/20	06/26/20		

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WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Surface 09
P006080-09 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2026021
Benzene	ND	0.0250	1	06/25/20	06/26/20		
Toluene	ND	0.0250	1	06/25/20	06/26/20		
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20		
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20		
o-Xylene	ND	0.0250	1	06/25/20	06/26/20		
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20		
Surrogate: 4-Bromochlorobenzene-PID		*103 %*	*50-150*	*06/25/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2026027
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/20	06/26/20		
Oil Range Organics (C28-C40)	ND	50.0	1	06/26/20	06/26/20		
Surrogate: n-Nonane		*97.5 %*	*50-200*	*06/26/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2026021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.4 %*	*50-150*	*06/25/20*	*06/26/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2026019
Chloride	**43.5**	20.0	1	06/25/20	06/26/20		

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Analytical Laboratory

WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Surface 10
P006080-10 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2026021
Benzene	ND	0.0250	1	06/25/20	06/26/20		
Toluene	ND	0.0250	1	06/25/20	06/26/20		
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20		
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20		
o-Xylene	ND	0.0250	1	06/25/20	06/26/20		
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20		
Surrogate: 4-Bromochlorobenzene-PID		*108 %*	*50-150*	*06/25/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2026027
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/20	06/26/20		
Oil Range Organics (C28-C40)	ND	50.0	1	06/26/20	06/26/20		
Surrogate: n-Nonane		*97.4 %*	*50-200*	*06/26/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2026021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.7 %*	*50-150*	*06/25/20*	*06/26/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2026019
Chloride	**49.2**	20.0	1	06/25/20	06/26/20		

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Analytical Laboratory

WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Surface 11
P006080-11 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2026021
Benzene	ND	0.0250	1	06/25/20	06/26/20		
Toluene	ND	0.0250	1	06/25/20	06/26/20		
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20		
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20		
o-Xylene	ND	0.0250	1	06/25/20	06/26/20		
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20		
Surrogate: 4-Bromochlorobenzene-PID		*105 %*	*50-150*	*06/25/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2026027
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/20	06/26/20		
Oil Range Organics (C28-C40)	ND	50.0	1	06/26/20	06/26/20		
Surrogate: n-Nonane		*87.5 %*	*50-200*	*06/26/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2026021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.4 %*	*50-150*	*06/25/20*	*06/26/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2026019
Chloride	**34.3**	20.0	1	06/25/20	06/26/20		

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Analytical Laboratory

WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Surface 12
P006080-12 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2026021
Benzene	ND	0.0250	1	06/25/20	06/26/20		
Toluene	ND	0.0250	1	06/25/20	06/26/20		
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20		
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20		
o-Xylene	ND	0.0250	1	06/25/20	06/26/20		
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20		
Surrogate: 4-Bromochlorobenzene-PID		*106 %*	*50-150*	*06/25/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2026027
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/20	06/26/20		
Oil Range Organics (C28-C40)	ND	50.0	1	06/26/20	06/26/20		
Surrogate: n-Nonane		*93.4 %*	*50-200*	*06/26/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2026021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*50-150*	*06/25/20*	*06/26/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2026019
Chloride	**38.2**	20.0	1	06/25/20	06/26/20		

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Analytical Laboratory

WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Surface 13
P006080-13 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2026021
Benzene	ND	0.0250	1	06/25/20	06/26/20		
Toluene	ND	0.0250	1	06/25/20	06/26/20		
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20		
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20		
o-Xylene	ND	0.0250	1	06/25/20	06/26/20		
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20		
Surrogate: 4-Bromochlorobenzene-PID		*103 %*	*50-150*	*06/25/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2026027
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/20	06/26/20		
Oil Range Organics (C28-C40)	ND	50.0	1	06/26/20	06/26/20		
Surrogate: n-Nonane		*77.2 %*	*50-200*	*06/26/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2026021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.5 %*	*50-150*	*06/25/20*	*06/26/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2026019
Chloride	**40.8**	20.0	1	06/25/20	06/26/20		

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Analytical Laboratory

WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Surface 14
P006080-14 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2026021
Benzene	ND	0.0250	1	06/25/20	06/26/20		
Toluene	ND	0.0250	1	06/25/20	06/26/20		
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20		
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20		
o-Xylene	ND	0.0250	1	06/25/20	06/26/20		
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20		
Surrogate: 4-Bromochlorobenzene-PID		*106 %*	*50-150*	*06/25/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2026027
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/20	06/26/20		
Oil Range Organics (C28-C40)	ND	50.0	1	06/26/20	06/26/20		
Surrogate: n-Nonane		*87.5 %*	*50-200*	*06/26/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2026021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.8 %*	*50-150*	*06/25/20*	*06/26/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2026019
Chloride	**23.4**	20.0	1	06/25/20	06/26/20		

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Analytical Laboratory

WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Surface 15
P006080-15 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2026021
Benzene	ND	0.0250	1	06/25/20	06/26/20		
Toluene	ND	0.0250	1	06/25/20	06/26/20		
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20		
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20		
o-Xylene	ND	0.0250	1	06/25/20	06/26/20		
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20		
Surrogate: 4-Bromochlorobenzene-PID		*105 %*	*50-150*	*06/25/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2026027
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/20	06/26/20		
Oil Range Organics (C28-C40)	ND	50.0	1	06/26/20	06/26/20		
Surrogate: n-Nonane		*83.2 %*	*50-200*	*06/26/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2026021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.0 %*	*50-150*	*06/25/20*	*06/26/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2026019
Chloride	ND	20.0	1	06/25/20	06/26/20		

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WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Surface 16
P006080-16 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2026021
Benzene	ND	0.0250	1	06/25/20	06/26/20		
Toluene	ND	0.0250	1	06/25/20	06/26/20		
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20		
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20		
o-Xylene	ND	0.0250	1	06/25/20	06/26/20		
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20		
Surrogate: 4-Bromochlorobenzene-PID		*108 %*	*50-150*	*06/25/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2026027
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/20	06/26/20		
Oil Range Organics (C28-C40)	ND	50.0	1	06/26/20	06/26/20		
Surrogate: n-Nonane		*76.4 %*	*50-200*	*06/26/20*	*06/26/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2026021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*50-150*	*06/25/20*	*06/26/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2026019
Chloride	ND	20.0	1	06/25/20	06/26/20		

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WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Volatile Organics by EPA 8021B - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level	Source Result mg/kg	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (2026021-BLK1)									Prepared & Analyzed: 06/25/20 1
Benzene	ND	0.0250							
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	*8.48*		*8.00*		*106*	*50-150*			
LCS (2026021-BS1)									Prepared: 06/25/20 1 Analyzed: 06/25/20 2
Benzene	4.98	0.0250	5.00		99.6	70-130			
Toluene	5.02	0.0250	5.00		100	70-130			
Ethylbenzene	4.99	0.0250	5.00		99.8	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
o-Xylene	5.04	0.0250	5.00		101	70-130			
Total Xylenes	15.0	0.0250	15.0		100	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*8.54*		*8.00*		*107*	*50-150*			
Matrix Spike (2026021-MS1)				**Source: P006080-01**					Prepared: 06/25/20 1 Analyzed: 06/25/20 2
Benzene	4.91	0.0250	5.00	ND	98.3	54.3-133			
Toluene	4.94	0.0250	5.00	ND	98.8	61.4-130			
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	61.4-133			
p,m-Xylene	9.84	0.0500	10.0	ND	98.4	63.3-131			
o-Xylene	4.94	0.0250	5.00	ND	98.9	63.3-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.6	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*8.37*		*8.00*		*105*	*50-150*			
Matrix Spike Dup (2026021-MSD1)				**Source: P006080-01**					Prepared: 06/25/20 1 Analyzed: 06/25/20 2
Benzene	5.29	0.0250	5.00	ND	106	54.3-133	7.36	20	
Toluene	5.25	0.0250	5.00	ND	105	61.4-130	6.12	20	
Ethylbenzene	5.21	0.0250	5.00	ND	104	61.4-133	5.85	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63.3-131	5.67	20	
o-Xylene	5.26	0.0250	5.00	ND	105	63.3-131	6.12	20	
Total Xylenes	15.7	0.0250	15.0	ND	104	0-200	5.82	200	
Surrogate: 4-Bromochlorobenzene-PID	*8.47*		*8.00*		*106*	*50-150*			

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WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level	Source Result mg/kg	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (2026027-BLK1)									Prepared: 06/26/20 0 Analyzed: 06/26/20 1
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	*48.7*		*50.0*		*97.4*	*50-200*			
LCS (2026027-BS1)									Prepared: 06/26/20 0 Analyzed: 06/26/20 1
Diesel Range Organics (C10-C28)	457	25.0	500		91.5	38-132			
Surrogate: n-Nonane	*49.4*		*50.0*		*98.8*	*50-200*			
Matrix Spike (2026027-MS1)				**Source: P006080-01**					Prepared: 06/26/20 0 Analyzed: 06/26/20 1
Diesel Range Organics (C10-C28)	588	25.0	500	ND	118	38-132			
Surrogate: n-Nonane	*59.4*		*50.0*		*119*	*50-200*			
Matrix Spike Dup (2026027-MSD1)				**Source: P006080-01**					Prepared: 06/26/20 0 Analyzed: 06/26/20 1
Diesel Range Organics (C10-C28)	596	25.0	500	ND	119	38-132	1.39	20	
Surrogate: n-Nonane	*61.6*		*50.0*		*123*	*50-200*			

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WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level	Source Result mg/kg	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (2026021-BLK1)									Prepared & Analyzed: 06/25/20 1
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.34*		*8.00*		*91.7*	*50-150*			
LCS (2026021-BS2)									Prepared: 06/25/20 1 Analyzed: 06/25/20 2
Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.72*		*8.00*		*96.5*	*50-150*			
Matrix Spike (2026021-MS2)				**Source: P006080-01**					Prepared: 06/25/20 1 Analyzed: 06/25/20 2
Gasoline Range Organics (C6-C10)	49.3	20.0	50.0	ND	98.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.45*		*8.00*		*93.2*	*50-150*			
Matrix Spike Dup (2026021-MSD2)				**Source: P006080-01**					Prepared: 06/25/20 1 Analyzed: 06/25/20 2
Gasoline Range Organics (C6-C10)	50.3	20.0	50.0	ND	101	70-130	2.02	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.34*		*8.00*		*91.8*	*50-150*			

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WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Anions by EPA 300.0/9056A - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg		mg/kg					
Blank (2026019-BLK1)									Prepared: 06/25/20 1 Analyzed: 06/26/20 1
Chloride	ND	20.0							
LCS (2026019-BS1)									Prepared: 06/25/20 1 Analyzed: 06/26/20 1
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2026019-MS1)					**Source: P006080-01**				Prepared: 06/25/20 1 Analyzed: 06/26/20 1
Chloride	284	20.0	250	30.2	102	80-120			
Matrix Spike Dup (2026019-MSD1)					**Source: P006080-01**				Prepared: 06/25/20 1 Analyzed: 06/26/20 1
Chloride	284	20.0	250	30.2	101	80-120	0.137	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 my differ slightly.

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WPX Energy - Carlsbad	Project Name:	Hepler Fee #001	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	06/30/20 10:11

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 2

standard 5 day

Client:	WPX Energy Permian
Project:	Hepler Fee #001
Project Manager:	Lynda Laumbach
Address:	5315 Buena Vista Drive
City, State, Zip	Carlsbad, NM 88220
Phone:	(575) 725-1647
Email:	lynda.laumbach@wpxenergy.com
Report due by:	

Bill To

Attention:	Lynda Laumbach
Address:	5315 Buena Vista Drive
City, State, Zip	Carlsbad NM 88220
Phone:	(575) 725-1647
Email:	lynda.laumbach@wpxenergy.com

Lab Use Only

Lab WO#	Job Number	TAT 1D	TAT 3D	EPA Program RCRA	CWA	SDWA
P000080	04108D0039					

State: NM, CO, UT, AZ, TX, OK

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	BGDOC - NM	BGDOC - TX	Remarks
7:00	06/24/2020	S	1	Surface #1	1							X		
7:05	06/24/2020			Surface #2	2									
7:10				Surface #3	3									
7:15				Surface #4	4									
7:20				Surface #5	5									
7:25				Surface #6	6									
7:30				Surface #7	7									
7:35				Surface #8	8									
7:40				Surface #9	9									
7:45				Surface #10	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: Lynda Laumbach

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
	06/24/2020	14:40		6.24.2020	1440
	6.24.2020	1645		6.25.20	9:45

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

envirotech Analytical Laboratory
5795 US Highway 64, Farmington, NM 87401
24 Hour Emergency Response Phone (800) 362-1879
Ph (505) 632-1881 Fx (505) 632-1865
envirotech-inc.com
labadmin@envirotech-inc.com

Project Information

Chain of Custody

standard 5 day

Client:	WPX Energy Permian
Project:	Hepler Fee #001
Project Manager:	Lynda Laumbach
Address:	5315 Buena Vista Drive
City, State, Zip	Carlsbad, NM 88220
Phone:	(575) 725-1647
Email:	lynda.laumbach@wpxenergy.com
Report due by:	

Bill To

Attention:	Lynda Laumbach
Address:	5315 Buena Vista Drive
City, State, Zip	Carlsbad NM 88220
Phone:	(575) 725-1647
Email:	lynda.laumbach@wpxenergy.com

Lab Use Only: Lab WO# P006080 | Job Number 04108-

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM (X) | CO | UT | AZ | TX | OK

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			BGDOC - NM	BGDOC - TX			Remarks
7:50	06/24/2020	S	1	Surface 11	11									X				
7:55				Surface 12	12									X				
8:00				Surface 13	13									X				
8:05				Surface 14	14									X				
8:10				Surface 15	15									X				
8:15				Surface 16	16									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: Lynda Laumbach

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
	06/24/2020	14:40		6.24.2020	1440
	6.24.2020	1645		6.25.20	9:45

Lab Use Only

Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

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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