

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	NRM2032948402
District RP	
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 32.326060 Longitude -104.03420
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Longview Federal 12 #014H	Site Type: Production Facility
Date Release Discovered: 11/08/2020	API# (if applicable): 30-015-39159

Unit Letter	Section	Township	Range	County
A	12	23S	28E	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
☒ Produced Water	Volume Released (bbls): 3	Volume Recovered (bbls): 2
	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 flange failed at the wellhead causing an estimated 5bbl of production fluid to be released onto the pad surface.

$$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21(\frac{ft^3}{bbl\ equivalent})} * estimated\ soil\ porosity(\%)$$

Incident ID	NRM2032948402
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?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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: <u>Lynda Laumbach</u>	Title: <u>Environmental Specialist</u>
Signature: <u></u>	Date: <u>11/12/2020</u>
email: <u>Lynda.Laumbach@wpenergy.com</u>	Telephone: <u>(575)725-1647</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>11/24/2020</u>

Incident ID	NRM2032948402
District RP	
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.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NRM2032948402
District RP	
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 ProfessionalSignature:  Date: 05/27/2021email: Lynda.Laumbach@dvni.com Telephone: (575)725-1647**OCD Only**

Received by: _____ Date: _____

Incident ID	NRM2032948402
District RP	
Facility ID	
Application ID	

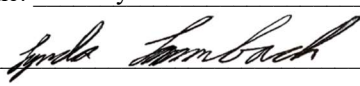
Closure

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: Lynda Laumbach Title: Environmental Professional
Signature:  Date: 05/27/2021
email: Lynda.Laumbach@dvn.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: _____



May 27, 2021
Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210

Re: Longview Federal 12 #014H Release Closure Request (NRM2032948402)

Mr. Bratcher,

This report summarizes the excavation, and sampling activities at the Longview Federal 12 #014H well pad (Site). The Site map is provided as Figure 01. On November 8, 2020, a gasket flange failed at the wellhead causing 5 barrels (bbls), 2 bbls oil and 3 bbls of produced water (PW) to be released around the wellhead. One barrel of oil and 2 bbls of PW was recovered with a vacuum truck.

Well Location: Longview Federal 12 #014H

API #: 30-015-39159

NMOCD Reference #: NRM2032948402

Site Location Description: Unit Letter A, Section 12, Township 23S, Range 28E

Release Latitude/Longitude: N32.326, W104.0342

Land Jurisdiction: Federal

Agency Notification: New Mexico Oil Conservation Division (NMOCD), Artesia District Office

Estimated Depth to Groundwater: >50 feet, Attachment 01 Water Wells (C-04418-POD1 and C-04417-POD1)

NMOCD Site Characterization Standards: 10,000 milligrams per kilogram (mg/kg) Chlorides, 50 mg/kg Benzene, Toluene, Ethylbenzene, and xylenes (BTEX), 10 mg/kg Benzene, 2,500 mg/kg Total Petroleum Hydrocarbons (TPH), 1,000 mg/kg diesel range organics (DRO) & gasoline range organics (GRO) *Characterization in C-141 at the beginning of this report

Field & Soil Sampling Activities

On November 8, 2020, WPX personnel were onsite to map the release area. The visually impacted area is provided in Figure 02. Initial excavation activities were completed November 16, 2020. Sampling of the excavation took place on January 14, 2021 and floor samples FS01-FS18 and sidewall samples SW01-SW04 were collected. Excavation activities were continued on April 27, 2021 and final samples FS01-FS12 and SW01-SW04 were collected on May 5, 2021 to address impacts from samples taken in January 2021. Delineation samples DS01-DS04 were collected on May 5, 2021.

Floor and sidewall samples were collected via 5-point composite sampling over areas no greater than 200 square feet across the excavation area. Delineation samples were collected via discrete sampling. Pictures of the excavation activities are provided in Attachment 03. A total of 100 cubic yards was excavated and hauled to disposal. All waste was hauled to R360 Hobbs Transportation Facility, 4507 W Carlsbad Hwy in Lea County, New Mexico. The excavation covered 3,600 square feet with an average depth of 0.5 feet bgs.

Laboratory Analytical Results

The laboratory analytical results for the excavation of impacted soils confirmed that all floor, sidewall, and discrete samples were compliant with the closure criteria for this Site. All samples are below the allowable standards for Chlorides, BTEX, and TPH. The sample locations are depicted in Figure 03. All sample results are summarized in Table 01 and complete lab results are provided in Attachment 04.

- Chlorides analysis ranged from 10 mg/kg to 5030 mg/kg
- BTEX analysis ranged from below the Laboratory detectable limit to 0.00305 mg/kg
- Benzene analysis was below the Laboratory detectable limit
- TPH ranged from below the Laboratory detectable limit to 359 mg/kg

Conclusions

The laboratory analytical results to address the impacted soils from NRM2032948402 demonstrates compliance with the Table 1 Closure Criteria set forth by the NMOCD. Actions to mitigate initial impacts of this site have proven a successful remediation. WPX requests no further action for this incident. The updated C-141 is included at the front of this report. If any questions or further information is warranted, please do not hesitate to contact me by cell phone at (575) 725-1647 or by email at Lynda.Laumbach@dm.com.

Best regards,



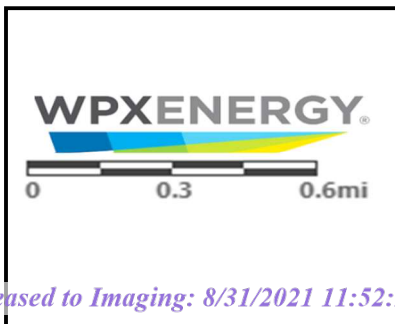
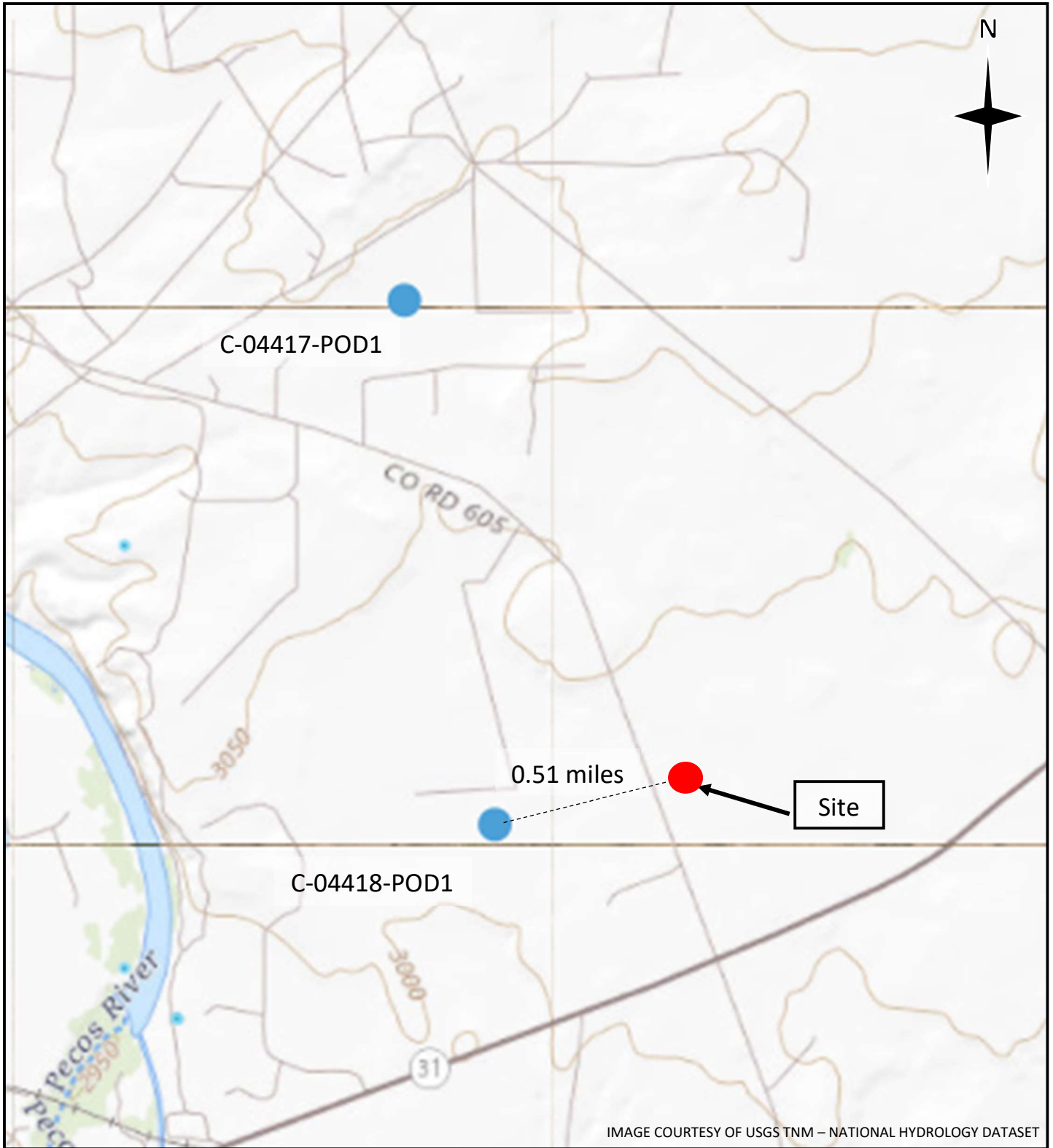
Lynda Laumbach
Environmental Professional

CC: Robert Hamlet, NMOCD
Victoria Venegas, NMOCD

Attachments:

Figure 01 Site Map (Topography)
Figure 02 Site Map- Initial Delineation
Figure 02 Excavation Activities
Table 01 Sample Results
Attachment 01 Water Wells C 04418 & 04417 Plug Records
Attachment 02 Photograph Log
Attachment 03 Laboratory Analytical Results

Figures



Legend

- WPX Wells (DTW determination)

Figure 01
Longview Federal 12-14H
30-015-39159
Permian Basin, Eddy County, NM
32.32606, -104.3442
NRM2032948402



WPXENERGY®

Legend

- X Point of Release
- Release Extent (4,000 ft²)

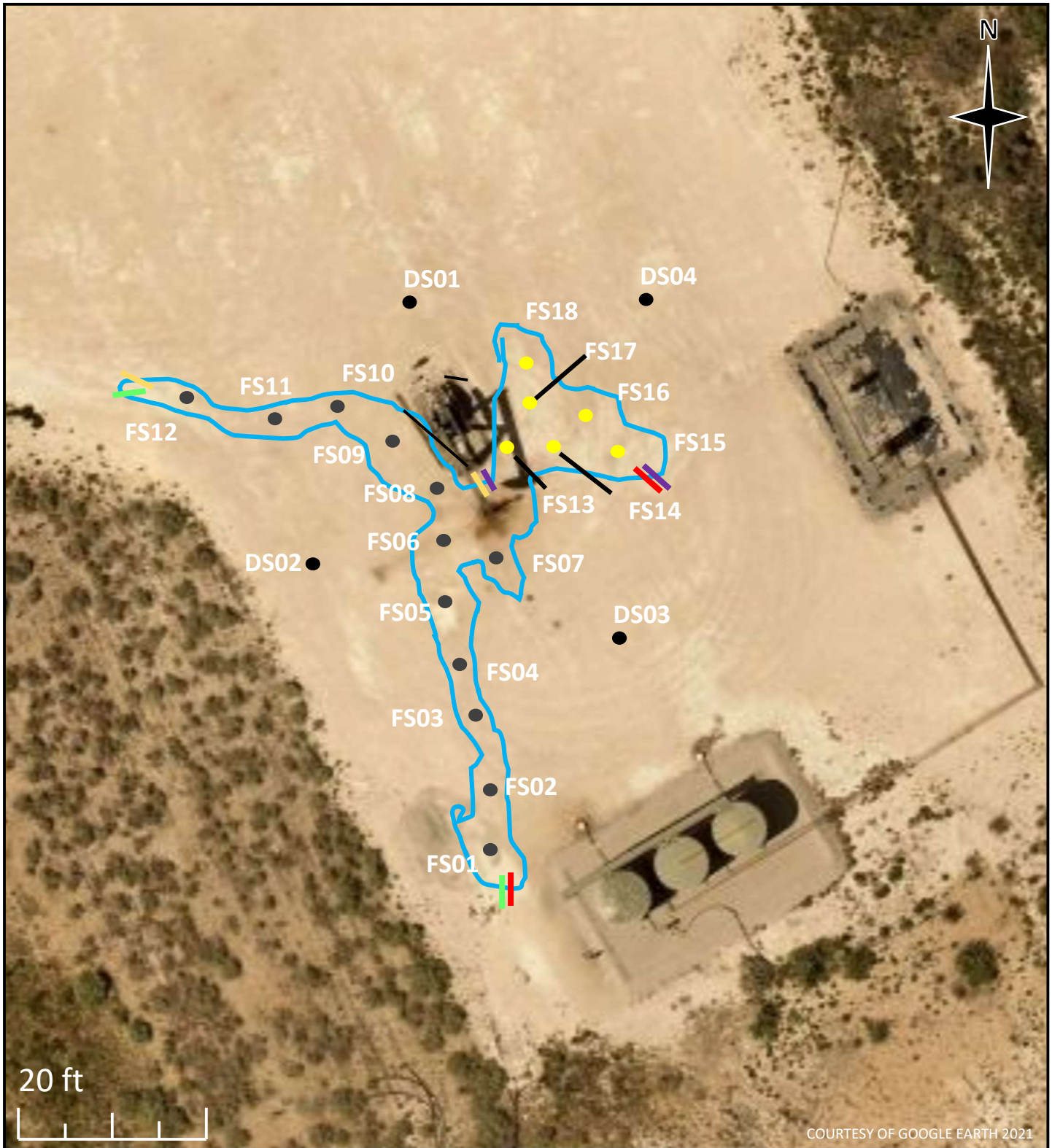
Figure 02

Longview Federal 12-14H
30-015-39159

Permian Basin, Eddy County, NM

32.32606, -104.3442

NRM2032948402



Legend

- Excavation Extent
- 01/14/2021 Sampling
- 05/05/2021 Sampling
- SW01
- SW03
- SW02
- SW04

Figure 03
Longview Federal 12-14H
30-015-39159

Permian Basin, Eddy County, NM

32.32606, -104.3442

NRM2032948402

Table(s)

TABLE 01
SOIL SAMPLE ANALYTICAL RESULTS
LONGVIEW FEDERAL 12 #014H
NMOCD REFERENCE NUMBER: NRM2032948402



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)
SW01	0-0.5	1/14/2021	<0.00200	-	<50.0	<50.0	<50.0	-	-	2620
SW02	0-0.5	1/14/2021	<0.00199	-	<50.1	<50.1	<50.1	-	-	3030
SW03	0-0.5	1/14/2021	<0.00200	-	<50.0	<50.0	<50.0	-	-	1240
SW04	0-0.5	1/14/2021	<0.00198	-	<50.2	<50.2	<50.2	-	-	578
FS01	0.5	1/14/2021	<0.00201	-	<251	1300	307	1300	1610	2350
FS02	0.5	1/14/2021	<0.00200	-	<249	1720.0	289	1720.0	2010.0	2170
FS03	0.5	1/14/2021	<0.00200	-	<50.2	<50.2	<50.2	-	-	2980
FS04	0.5	1/14/2021	<0.00199	-	<251	1770	315	1770.0	2090.0	4100
FS05	0.5	1/14/2021	<0.00228	-	<251	1710.0	279	1710	1990	1100
FS06	0.5	1/14/2021	<0.00200	-	<250	2240.0	251	2240.0	2490.0	860
FS07	0.5	1/14/2021	<0.00199	-	<251	1870.0	360	1870	2230	4130
FS08	0.5	1/14/2021	<0.00200	-	<251	2780	352	2780.0	3130.0	1640
FS09	0.5	1/14/2021	<0.00198	-	<250	1850	292	1850.0	2140.0	1130
FS10	0.5	1/14/2021	<0.00200	-	<251	2260	282	2260	2540	1110
FS11	0.5	1/14/2021	<0.00200	-	<50.2	<50.2	<50.2	-	-	1530
FS12	0.5	1/14/2021	<0.00200	-	<249	1920	<249	1920	1920	822
NMOCD Table 1 Closure Criteria			10	50	NE	NE	NE	1,000	2,500	10,000

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

All samples were taken with decontaminated equipment, jarred in precleaned glass soil jars, with appropriate identification, and immediately placed on ice to lower sample temperatures below 4° Celsius, adhering to strict chain of custody of Xenco laboratories. Analysis was completed at Xenco Laboratories in Carlsbad, NM. All samples were analyzed for Chlorides via Method EPA 300.0, TPH via Method 8015M, and BTEX via Method 8021B.

TABLE 01
SOIL SAMPLE ANALYTICAL RESULTS
LONGVIEW FEDERAL 12 #014H
NMOCD REFERENCE NUMBER: NRM2032948402



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)
FS13	0.5	1/14/2021	<0.00199	-	<50.2	<50.2	<50.2	-	-	679
FS14	0.5	1/14/2021	<0.00200	-	<49.8	<49.8	<49.8	-	-	1360
FS15	0.5	1/14/2021	<0.00198	-	<50.0	<50.0	<50.0	-	-	1380
FS16	0.5	1/14/2021	<0.00200	-	<50.1	<50.1	<50.1	-	-	648
FS17	0.5	1/14/2021	<0.00202	-	<50.2	<50.2	<50.2	-	-	1120
FS18	0.5	1/14/2021	<0.00200	-	<50.1	<50.1	<50.1	-	-	1480
FS01	0.5	5/5/2021	<0.00201	-	<49.9	<49.9	<49.9	-	-	3220
FS02	0.5	5/5/2021	<0.00201	-	<49.9	<49.9	<49.9	-	-	366
FS03	0.5	5/5/2021	<0.00199	-	<49.8	<49.8	<49.8	-	-	1090
FS04	0.5	5/5/2021	<0.00200	-	<49.9	<49.9	<49.9	-	-	996
FS05	0.5	5/5/2021	<0.00201	-	<50.0	93.5	<50.0	93.5	93.5	783
FS06	0.5	5/5/2021	<0.00200	-	<50.0	300	58.7	300	358.7	5030
FS07	0.5	5/5/2021	<0.00200	-	<50.0	57.8	<50.0	57.8	58	2610
FS08	0.5	5/5/2021	<0.00199	-	<49.9	<49.9	<49.9	-	-	1080
FS09	0.5	5/5/2021	<0.00199	-	<49.9	202	51.8	202	253.8	2730
NMOCD Table 1 Closure Criteria			10	50	NE	NE	NE	1,000	2,500	10,000

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

All samples were taken with decontaminated equipment, jarred in precleaned glass soil jars, with appropriate identification, and immediately placed on ice to lower sample temperatures below 4° Celsius, adhering to strict chain of custody of Xenco laboratories. Analysis was completed at Xenco Laboratories in Carlsbad, NM. All samples were analyzed for Chlorides via Method EPA 300.0, TPH via Method 8015M, and BTEX via Method 8021B.

TABLE 01
SOIL SAMPLE ANALYTICAL RESULTS
LONGVIEW FEDERAL 12 #014H
NMOCD REFERENCE NUMBER: NRM2032948402



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)
FS10	0.5	5/5/2021	<0.00198	-	<50.0	<50.0	<50.0	-	-	76
FS11	0.5	5/5/2021	<0.00200	-	51.2	58.3	<50.0	109.5	109.5	2350
FS12	0.5	5/5/2021	<0.00200	-	<50.0	66.5	<50.0	66.5	66.5	581
DS01	0.5	5/5/2021	<0.00202	0.00305	<50.0	<50.0	<50.0	-	-	12
DS02	0.5	5/5/2021	<0.00199	-	<49.9	<49.9	<49.9	-	-	10
DS03	0.5	5/5/2021	<0.00200	-	<49.9	<49.9	<49.9	-	-	205
DS04	0.5	5/5/2021	<0.00200	-	85.4	<50.0	<50.0	85.4	85.4	17
NMOCD Table 1 Closure Criteria			10	50	NE	NE	NE	1,000	2,500	10,000

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

All samples were taken with decontaminated equipment, jarred in precleaned glass soil jars, with appropriate identification, and immediately placed on ice to lower sample temperatures below 4° Celsius, adhering to strict chain of custody of Xenco laboratories. Analysis was completed at Xenco Laboratories in Carlsbad, NM. All samples were analyzed for Chlorides via Method EPA 300.0, TPH via Method 8015M, and BTEX via Method 8021B.

Attachment 01

Water Well Plugging Records
C04418, C04417



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C 04418
 Well owner: WPX Energy Phone No.: _____
 Mailing address: 5315 Buena Vista Drive
 City: Carlsbad State: NM Zip code: 88220

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: HRL Compliance Solutions
- 2) New Mexico Well Driller License No.: 1789 Expiration Date: 12/20/2020
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Kalvin (Kelly) Padilla
- 4) Date well plugging began: 4/3/2020 Date well plugging concluded: 4/3/2020
- 5) GPS Well Location: Latitude: 32 deg, 19 min, 29.6 sec
 Longitude: -104 deg, 02 min, 33.7 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),
 by the following manner: Measuring Tape
- 7) Static water level measured at initiation of plugging: > 55 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: Not Applicabl
- 9) Were all plugging activities consistent with an approved plugging plan? Not Applicable If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

III. SIGNATURE:

Signature of Well Driller

4/23/2020
Date



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C 04417

Well owner: WPX Energy

Phone No.: _____

Mailing address: 5315 Buena Vista Drive

City: Carlsbad

State: _____

NM

Zip code: 88220

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: HRL Compliance Solutions
- 2) New Mexico Well Driller License No.: 1789 Expiration Date: 12/20/2020
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Kalvin (Kelly) Padilla
- 4) Date well plugging began: 4/3/2020 Date well plugging concluded: 4/3/2020
- 5) GPS Well Location: Latitude: 32 deg, 20 min, 35.4 sec
Longitude: -104 deg, 02 min, 47.1 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),
by the following manner: Measuring Tape
- 7) Static water level measured at initiation of plugging: > 55 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: Not Applicable
- 9) Were all plugging activities consistent with an approved plugging plan? Not Applicable If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

III. SIGNATURE:

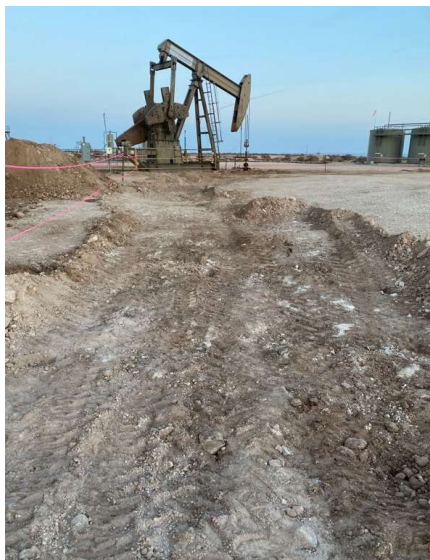
Signature of Well Driller

Version: September 8, 2009
Page 2 of 2

Attachment 02



Picture 1- Southeast face, north west edge of Site
5-May-21



Picture 2- north east face, west of pumpjack
5-May-21



Picture 3-North east face, south west of wellhead
5-May-21



Picture 4- north face, south of pumpjack
5-May-21



Attachment 03



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-630-1

Client Project/Site: Longview Federal 12 #14H
Revision: 1

For:

WPX Energy Production LLC
5315 Buena Vista Dr
Carlsbad, New Mexico 88220

Attn: Lynda Laumbach

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
5/7/2021 11:10:24 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Laboratory Job ID: 890-630-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	16
QC Sample Results	18
QC Association Summary	22
Lab Chronicle	25
Certification Summary	29
Method Summary	30
Sample Summary	31
Chain of Custody	32
Receipt Checklists	35

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Definitions/Glossary

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Job ID: 890-630-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-630-1

Comments

No additional comments.

Receipt

The samples were received on 5/5/2021 1:17 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.8° C.

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS01 (890-630-1), FS02 (890-630-2), FS03 (890-630-3), FS04 (890-630-4), FS05 (890-630-5), FS06 (890-630-6), FS07 (890-630-7), FS08 (890-630-8), FS09 (890-630-9), FS10 (890-630-10), FS11 (890-630-11), FS12 (890-630-12), DS01 (890-630-13), DS02 (890-630-14), DS03 (890-630-15) and DS04 (890-630-16).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS01 (890-630-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS09 (890-630-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS03 (890-630-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS10 (890-630-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Client Sample ID: FS01

Lab Sample ID: 890-630-1

Date Collected: 05/05/21 09:00

Matrix: Solid

Date Received: 05/05/21 13:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/06/21 11:00	05/06/21 12:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/06/21 11:00	05/06/21 12:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/06/21 11:00	05/06/21 12:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/06/21 11:00	05/06/21 12:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/06/21 11:00	05/06/21 12:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/06/21 11:00	05/06/21 12:57	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		05/06/21 11:00	05/06/21 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	05/06/21 11:00	05/06/21 12:57	1
1,4-Difluorobenzene (Surr)	89		70 - 130	05/06/21 11:00	05/06/21 12:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/06/21 22:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/06/21 22:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/06/21 22:39	1
Total TPH	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/06/21 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	05/06/21 11:32	05/06/21 22:39	1
o-Terphenyl	100		70 - 130	05/06/21 11:32	05/06/21 22:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3220		25.2		mg/Kg			05/06/21 15:17	5

Client Sample ID: FS02

Lab Sample ID: 890-630-2

Date Collected: 05/05/21 09:05

Matrix: Solid

Date Received: 05/05/21 13:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/06/21 11:00	05/06/21 13:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/06/21 11:00	05/06/21 13:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/06/21 11:00	05/06/21 13:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/06/21 11:00	05/06/21 13:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/06/21 11:00	05/06/21 13:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/06/21 11:00	05/06/21 13:18	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		05/06/21 11:00	05/06/21 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	05/06/21 11:00	05/06/21 13:18	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/06/21 11:00	05/06/21 13:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/06/21 23:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Client Sample ID: FS02

Lab Sample ID: 890-630-2

Date Collected: 05/05/21 09:05

Matrix: Solid

Date Received: 05/05/21 13:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/06/21 23:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/06/21 23:41	1
Total TPH	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/06/21 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				05/06/21 11:32	05/06/21 23:41	1
o-Terphenyl	93		70 - 130				05/06/21 11:32	05/06/21 23:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	366		5.05		mg/Kg			05/06/21 15:33	1

Client Sample ID: FS03

Lab Sample ID: 890-630-3

Date Collected: 05/05/21 09:10

Matrix: Solid

Date Received: 05/05/21 13:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/21 11:00	05/06/21 13:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/21 11:00	05/06/21 13:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/06/21 11:00	05/06/21 13:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/21 11:00	05/06/21 13:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/21 11:00	05/06/21 13:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/21 11:00	05/06/21 13:38	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/06/21 11:00	05/06/21 13:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				05/06/21 11:00	05/06/21 13:38	1
1,4-Difluorobenzene (Surr)	90		70 - 130				05/06/21 11:00	05/06/21 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/06/21 11:32	05/07/21 00:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/06/21 11:32	05/07/21 00:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/06/21 11:32	05/07/21 00:02	1
Total TPH	<49.8	U	49.8		mg/Kg		05/06/21 11:32	05/07/21 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				05/06/21 11:32	05/07/21 00:02	1
o-Terphenyl	93		70 - 130				05/06/21 11:32	05/07/21 00:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		4.98		mg/Kg			05/06/21 15:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Client Sample ID: FS04

Lab Sample ID: 890-630-4

Date Collected: 05/05/21 09:15

Matrix: Solid

Date Received: 05/05/21 13:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 13:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 13:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 13:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/06/21 11:00	05/06/21 13:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 13:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/06/21 11:00	05/06/21 13:58	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/06/21 11:00	05/06/21 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	05/06/21 11:00	05/06/21 13:58	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/06/21 11:00	05/06/21 13:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/07/21 00:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/07/21 00:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/07/21 00:23	1
Total TPH	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/07/21 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	05/06/21 11:32	05/07/21 00:23	1
o-Terphenyl	105		70 - 130	05/06/21 11:32	05/07/21 00:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	996		4.97		mg/Kg			05/06/21 15:43	1

Client Sample ID: FS05

Lab Sample ID: 890-630-5

Date Collected: 05/05/21 09:20

Matrix: Solid

Date Received: 05/05/21 13:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/06/21 11:00	05/06/21 14:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/06/21 11:00	05/06/21 14:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/06/21 11:00	05/06/21 14:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/06/21 11:00	05/06/21 14:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/06/21 11:00	05/06/21 14:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/06/21 11:00	05/06/21 14:19	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		05/06/21 11:00	05/06/21 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	05/06/21 11:00	05/06/21 14:19	1
1,4-Difluorobenzene (Surr)	98		70 - 130	05/06/21 11:00	05/06/21 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 00:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Client Sample ID: FS05

Lab Sample ID: 890-630-5

Date Collected: 05/05/21 09:20

Matrix: Solid

Date Received: 05/05/21 13:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	93.5		50.0		mg/Kg		05/06/21 11:32	05/07/21 00:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 00:44	1
Total TPH	93.5		50.0		mg/Kg		05/06/21 11:32	05/07/21 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				05/06/21 11:32	05/07/21 00:44	1
o-Terphenyl	112		70 - 130				05/06/21 11:32	05/07/21 00:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	783		4.99		mg/Kg			05/06/21 15:48	1

Client Sample ID: FS06

Lab Sample ID: 890-630-6

Date Collected: 05/05/21 09:25

Matrix: Solid

Date Received: 05/05/21 13:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 14:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 14:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 14:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/06/21 11:00	05/06/21 14:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 14:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/06/21 11:00	05/06/21 14:39	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/06/21 11:00	05/06/21 14:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				05/06/21 11:00	05/06/21 14:39	1
1,4-Difluorobenzene (Surr)	92		70 - 130				05/06/21 11:00	05/06/21 14:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 01:05	1
Diesel Range Organics (Over C10-C28)	300		50.0		mg/Kg		05/06/21 11:32	05/07/21 01:05	1
Oil Range Organics (Over C28-C36)	58.7		50.0		mg/Kg		05/06/21 11:32	05/07/21 01:05	1
Total TPH	359		50.0		mg/Kg		05/06/21 11:32	05/07/21 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				05/06/21 11:32	05/07/21 01:05	1
o-Terphenyl	95		70 - 130				05/06/21 11:32	05/07/21 01:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5030		25.1		mg/Kg			05/06/21 15:53	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Client Sample ID: FS07

Lab Sample ID: 890-630-7

Date Collected: 05/05/21 09:30

Matrix: Solid

Date Received: 05/05/21 13:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 15:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 15:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 15:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/06/21 11:00	05/06/21 15:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 15:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/06/21 11:00	05/06/21 15:00	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/06/21 11:00	05/06/21 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	05/06/21 11:00	05/06/21 15:00	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/06/21 11:00	05/06/21 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 01:26	1
Diesel Range Organics (Over C10-C28)	57.8		50.0		mg/Kg		05/06/21 11:32	05/07/21 01:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 01:26	1
Total TPH	57.8		50.0		mg/Kg		05/06/21 11:32	05/07/21 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	05/06/21 11:32	05/07/21 01:26	1
o-Terphenyl	91		70 - 130	05/06/21 11:32	05/07/21 01:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2610		25.0		mg/Kg			05/06/21 15:59	5

Client Sample ID: FS08

Lab Sample ID: 890-630-8

Date Collected: 05/05/21 09:35

Matrix: Solid

Date Received: 05/05/21 13:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/21 11:00	05/06/21 15:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/21 11:00	05/06/21 15:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/06/21 11:00	05/06/21 15:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/21 11:00	05/06/21 15:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/21 11:00	05/06/21 15:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/21 11:00	05/06/21 15:20	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/06/21 11:00	05/06/21 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	05/06/21 11:00	05/06/21 15:20	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/06/21 11:00	05/06/21 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/07/21 01:47	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Client Sample ID: FS08

Lab Sample ID: 890-630-8

Date Collected: 05/05/21 09:35

Matrix: Solid

Date Received: 05/05/21 13:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/07/21 01:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/07/21 01:47	1
Total TPH	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/07/21 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/06/21 11:32	05/07/21 01:47	1
o-Terphenyl	107		70 - 130				05/06/21 11:32	05/07/21 01:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1080		5.04		mg/Kg			05/06/21 16:14	1

Client Sample ID: FS09

Lab Sample ID: 890-630-9

Date Collected: 05/05/21 09:40

Matrix: Solid

Date Received: 05/05/21 13:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/21 11:00	05/06/21 12:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/21 11:00	05/06/21 12:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/06/21 11:00	05/06/21 12:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/21 11:00	05/06/21 12:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/21 11:00	05/06/21 12:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/21 11:00	05/06/21 12:58	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/06/21 11:00	05/06/21 12:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				05/06/21 11:00	05/06/21 12:58	1
1,4-Difluorobenzene (Surr)	94		70 - 130				05/06/21 11:00	05/06/21 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/07/21 02:08	1
Diesel Range Organics (Over C10-C28)	202		49.9		mg/Kg		05/06/21 11:32	05/07/21 02:08	1
Oil Range Organics (Over C28-C36)	51.8		49.9		mg/Kg		05/06/21 11:32	05/07/21 02:08	1
Total TPH	254		49.9		mg/Kg		05/06/21 11:32	05/07/21 02:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				05/06/21 11:32	05/07/21 02:08	1
o-Terphenyl	98		70 - 130				05/06/21 11:32	05/07/21 02:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2730		25.1		mg/Kg			05/06/21 16:19	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Client Sample ID: FS10

Lab Sample ID: 890-630-10

Date Collected: 05/05/21 09:45

Matrix: Solid

Date Received: 05/05/21 13:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/06/21 11:00	05/06/21 13:19	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/06/21 11:00	05/06/21 13:19	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/06/21 11:00	05/06/21 13:19	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/06/21 11:00	05/06/21 13:19	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/21 11:00	05/06/21 13:19	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/06/21 11:00	05/06/21 13:19	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		05/06/21 11:00	05/06/21 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	05/06/21 11:00	05/06/21 13:19	1
1,4-Difluorobenzene (Surr)	77		70 - 130	05/06/21 11:00	05/06/21 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 02:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 02:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 02:28	1
Total TPH	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	05/06/21 11:32	05/07/21 02:28	1
o-Terphenyl	95		70 - 130	05/06/21 11:32	05/07/21 02:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.5		4.96		mg/Kg			05/06/21 16:35	1

Client Sample ID: FS11

Lab Sample ID: 890-630-11

Date Collected: 05/05/21 09:50

Matrix: Solid

Date Received: 05/05/21 13:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 13:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 13:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 13:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/06/21 11:00	05/06/21 13:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 13:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/06/21 11:00	05/06/21 13:40	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/06/21 11:00	05/06/21 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	05/06/21 11:00	05/06/21 13:40	1
1,4-Difluorobenzene (Surr)	98		70 - 130	05/06/21 11:00	05/06/21 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	51.2		50.0		mg/Kg		05/06/21 11:32	05/07/21 03:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Client Sample ID: FS11

Lab Sample ID: 890-630-11

Date Collected: 05/05/21 09:50

Matrix: Solid

Date Received: 05/05/21 13:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	58.3		50.0		mg/Kg		05/06/21 11:32	05/07/21 03:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 03:10	1
Total TPH	110		50.0		mg/Kg		05/06/21 11:32	05/07/21 03:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				05/06/21 11:32	05/07/21 03:10	1
o-Terphenyl	116		70 - 130				05/06/21 11:32	05/07/21 03:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2350		24.8		mg/Kg			05/06/21 16:40	5

Client Sample ID: FS12

Lab Sample ID: 890-630-12

Date Collected: 05/05/21 09:55

Matrix: Solid

Date Received: 05/05/21 13:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 14:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 14:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 14:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/06/21 11:00	05/06/21 14:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 14:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/06/21 11:00	05/06/21 14:00	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/06/21 11:00	05/06/21 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				05/06/21 11:00	05/06/21 14:00	1
1,4-Difluorobenzene (Surr)	111		70 - 130				05/06/21 11:00	05/06/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 03:31	1
Diesel Range Organics (Over C10-C28)	66.5		50.0		mg/Kg		05/06/21 11:32	05/07/21 03:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 03:31	1
Total TPH	66.5		50.0		mg/Kg		05/06/21 11:32	05/07/21 03:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				05/06/21 11:32	05/07/21 03:31	1
o-Terphenyl	100		70 - 130				05/06/21 11:32	05/07/21 03:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	581		5.04		mg/Kg			05/06/21 16:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Client Sample ID: DS01

Lab Sample ID: 890-630-13

Date Collected: 05/05/21 10:00

Matrix: Solid

Date Received: 05/05/21 13:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/21 11:00	05/06/21 14:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/21 11:00	05/06/21 14:21	1
Ethylbenzene	0.00305		0.00202		mg/Kg		05/06/21 11:00	05/06/21 14:21	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/06/21 11:00	05/06/21 14:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/21 11:00	05/06/21 14:21	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/06/21 11:00	05/06/21 14:21	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		05/06/21 11:00	05/06/21 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	05/06/21 11:00	05/06/21 14:21	1
1,4-Difluorobenzene (Surr)	113		70 - 130	05/06/21 11:00	05/06/21 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 03:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 03:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 03:52	1
Total TPH	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 03:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	05/06/21 11:32	05/07/21 03:52	1
o-Terphenyl	113		70 - 130	05/06/21 11:32	05/07/21 03:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.9		4.99		mg/Kg			05/06/21 16:50	1

Client Sample ID: DS02

Lab Sample ID: 890-630-14

Date Collected: 05/05/21 10:05

Matrix: Solid

Date Received: 05/05/21 13:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/21 11:00	05/06/21 14:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/21 11:00	05/06/21 14:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/06/21 11:00	05/06/21 14:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/21 11:00	05/06/21 14:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/21 11:00	05/06/21 14:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/21 11:00	05/06/21 14:42	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/06/21 11:00	05/06/21 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	05/06/21 11:00	05/06/21 14:42	1
1,4-Difluorobenzene (Surr)	108		70 - 130	05/06/21 11:00	05/06/21 14:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/07/21 04:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Client Sample ID: DS02

Date Collected: 05/05/21 10:05

Date Received: 05/05/21 13:17

Lab Sample ID: 890-630-14

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/07/21 04:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/07/21 04:12	1
Total TPH	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/07/21 04:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				05/06/21 11:32	05/07/21 04:12	1
o-Terphenyl	105		70 - 130				05/06/21 11:32	05/07/21 04:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.4		5.00		mg/Kg			05/06/21 16:55	1

Client Sample ID: DS03

Date Collected: 05/05/21 10:10

Date Received: 05/05/21 13:17

Lab Sample ID: 890-630-15

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 15:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 15:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 15:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/06/21 11:00	05/06/21 15:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 15:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/06/21 11:00	05/06/21 15:03	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/06/21 11:00	05/06/21 15:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				05/06/21 11:00	05/06/21 15:03	1
1,4-Difluorobenzene (Surr)	112		70 - 130				05/06/21 11:00	05/06/21 15:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/07/21 04:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/07/21 04:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/07/21 04:33	1
Total TPH	<49.9	U	49.9		mg/Kg		05/06/21 11:32	05/07/21 04:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				05/06/21 11:32	05/07/21 04:33	1
o-Terphenyl	96		70 - 130				05/06/21 11:32	05/07/21 04:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	205		5.00		mg/Kg			05/06/21 17:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Client Sample ID: DS04

Lab Sample ID: 890-630-16

Date Collected: 05/05/21 10:15

Matrix: Solid

Date Received: 05/05/21 13:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 15:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 15:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 15:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/06/21 11:00	05/06/21 15:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/21 11:00	05/06/21 15:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/06/21 11:00	05/06/21 15:23	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/06/21 11:00	05/06/21 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	05/06/21 11:00	05/06/21 15:23	1
1,4-Difluorobenzene (Surr)	108		70 - 130	05/06/21 11:00	05/06/21 15:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	85.4		50.0		mg/Kg		05/06/21 11:32	05/07/21 04:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 04:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 04:54	1
Total TPH	85.4		50.0		mg/Kg		05/06/21 11:32	05/07/21 04:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	05/06/21 11:32	05/07/21 04:54	1
o-Terphenyl	114		70 - 130	05/06/21 11:32	05/07/21 04:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.5		5.00		mg/Kg			05/06/21 17:06	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-630-1	FS01	90	89
890-630-2	FS02	97	96
890-630-3	FS03	90	90
890-630-4	FS04	99	92
890-630-5	FS05	97	98
890-630-6	FS06	86	92
890-630-7	FS07	101	94
890-630-8	FS08	92	90
890-630-9	FS09	131 S1+	94
890-630-10	FS10	106	77
890-630-11	FS11	97	98
890-630-12	FS12	105	111
890-630-13	DS01	122	113
890-630-14	DS02	103	108
890-630-15	DS03	95	112
890-630-16	DS04	91	108
LCS 880-2707/1-A	Lab Control Sample	92	111
LCS 880-2756/1-A	Lab Control Sample	110	107
LCSD 880-2707/2-A	Lab Control Sample Dup	89	110
LCSD 880-2756/2-A	Lab Control Sample Dup	108	109
MB 880-2707/5-A	Method Blank	106	98
MB 880-2756/5-A	Method Blank	91	93
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-630-1	FS01	94	100
890-630-1 MS	FS01	87	87
890-630-1 MSD	FS01	85	84
890-630-2	FS02	86	93
890-630-3	FS03	87	93
890-630-4	FS04	100	105
890-630-5	FS05	104	112
890-630-6	FS06	87	95
890-630-7	FS07	86	91
890-630-8	FS08	102	107
890-630-9	FS09	93	98
890-630-10	FS10	89	95
890-630-11	FS11	109	116
890-630-12	FS12	91	100
890-630-13	DS01	105	113
890-630-14	DS02	99	105
890-630-15	DS03	91	96

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-630-16	DS04	107	114
LCS 880-2771/2-A	Lab Control Sample	105	105
LCSD 880-2771/3-A	Lab Control Sample Dup	105	104
MB 880-2771/1-A	Method Blank	96	105

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2707/5-A

Matrix: Solid

Analysis Batch: 2757

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2707

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/05/21 11:00	05/06/21 11:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	05/05/21 11:00	05/06/21 11:55	1
1,4-Difluorobenzene (Surr)	98		70 - 130	05/05/21 11:00	05/06/21 11:55	1

Lab Sample ID: LCS 880-2707/1-A

Matrix: Solid

Analysis Batch: 2757

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2707

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09929		mg/Kg		99	70 - 130
Toluene	0.100	0.1024		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.09811		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2006		mg/Kg		100	70 - 130
o-Xylene	0.100	0.09570		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-2707/2-A

Matrix: Solid

Analysis Batch: 2757

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2707

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09172		mg/Kg		92	70 - 130	8	35
Toluene	0.100	0.09860		mg/Kg		99	70 - 130	4	35
Ethylbenzene	0.100	0.09572		mg/Kg		96	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1923		mg/Kg		96	70 - 130	4	35
o-Xylene	0.100	0.09321		mg/Kg		93	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: MB 880-2756/5-A

Matrix: Solid

Analysis Batch: 2758

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2756

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/21 08:25	05/06/21 11:55	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-2756/5-A

Matrix: Solid

Analysis Batch: 2758

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2756

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/21 08:25	05/06/21 11:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/21 08:25	05/06/21 11:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/06/21 08:25	05/06/21 11:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/21 08:25	05/06/21 11:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/06/21 08:25	05/06/21 11:55	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/06/21 08:25	05/06/21 11:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	05/06/21 08:25	05/06/21 11:55	1
1,4-Difluorobenzene (Surr)	93		70 - 130	05/06/21 08:25	05/06/21 11:55	1

Lab Sample ID: LCS 880-2756/1-A

Matrix: Solid

Analysis Batch: 2758

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2756

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1079		mg/Kg		108	70 - 130
Toluene	0.100	0.1028		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1049		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2250		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1130		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-2756/2-A

Matrix: Solid

Analysis Batch: 2758

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2756

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1057		mg/Kg		106	70 - 130	2	35
Toluene	0.100	0.1002		mg/Kg		100	70 - 130	3	35
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2169		mg/Kg		108	70 - 130	4	35
o-Xylene	0.100	0.1095		mg/Kg		110	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

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

Lab Sample ID: MB 880-2771/1-A

Matrix: Solid

Analysis Batch: 2795

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/06/21 21:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/06/21 21:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/06/21 21:36	1
Total TPH	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/06/21 21:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	05/06/21 11:32	05/06/21 21:36	1
o-Terphenyl	105		70 - 130	05/06/21 11:32	05/06/21 21:36	1

Lab Sample ID: LCS 880-2771/2-A

Matrix: Solid

Analysis Batch: 2795

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	830.9		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1091		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-2771/3-A

Matrix: Solid

Analysis Batch: 2795

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2771

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	866.9		mg/Kg		87	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1079		mg/Kg		108	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-630-1 MS

Matrix: Solid

Analysis Batch: 2795

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 2771

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	756.4		mg/Kg		74	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1065		mg/Kg		105	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

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

Lab Sample ID: 890-630-1 MS

Matrix: Solid

Analysis Batch: 2795

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 2771

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 890-630-1 MSD

Matrix: Solid

Analysis Batch: 2795

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 2771

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	747.5		mg/Kg		73	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1030		mg/Kg		101	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	84		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2778/1-A

Matrix: Solid

Analysis Batch: 2785

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/06/21 14:31	1

Lab Sample ID: LCS 880-2778/2-A

Matrix: Solid

Analysis Batch: 2785

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	245.1		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-2778/3-A

Matrix: Solid

Analysis Batch: 2785

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	245.2		mg/Kg		98	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

GC VOA

Prep Batch: 2707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-630-9	FS09	Total/NA	Solid	5035	
890-630-10	FS10	Total/NA	Solid	5035	
890-630-11	FS11	Total/NA	Solid	5035	
890-630-12	FS12	Total/NA	Solid	5035	
890-630-13	DS01	Total/NA	Solid	5035	
890-630-14	DS02	Total/NA	Solid	5035	
890-630-15	DS03	Total/NA	Solid	5035	
890-630-16	DS04	Total/NA	Solid	5035	
MB 880-2707/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2707/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2707/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 2756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-630-1	FS01	Total/NA	Solid	5035	
890-630-2	FS02	Total/NA	Solid	5035	
890-630-3	FS03	Total/NA	Solid	5035	
890-630-4	FS04	Total/NA	Solid	5035	
890-630-5	FS05	Total/NA	Solid	5035	
890-630-6	FS06	Total/NA	Solid	5035	
890-630-7	FS07	Total/NA	Solid	5035	
890-630-8	FS08	Total/NA	Solid	5035	
MB 880-2756/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2756/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2756/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 2757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-630-9	FS09	Total/NA	Solid	8021B	2707
890-630-10	FS10	Total/NA	Solid	8021B	2707
890-630-11	FS11	Total/NA	Solid	8021B	2707
890-630-12	FS12	Total/NA	Solid	8021B	2707
890-630-13	DS01	Total/NA	Solid	8021B	2707
890-630-14	DS02	Total/NA	Solid	8021B	2707
890-630-15	DS03	Total/NA	Solid	8021B	2707
890-630-16	DS04	Total/NA	Solid	8021B	2707
MB 880-2707/5-A	Method Blank	Total/NA	Solid	8021B	2707
LCS 880-2707/1-A	Lab Control Sample	Total/NA	Solid	8021B	2707
LCSD 880-2707/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2707

Analysis Batch: 2758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-630-1	FS01	Total/NA	Solid	8021B	2756
890-630-2	FS02	Total/NA	Solid	8021B	2756
890-630-3	FS03	Total/NA	Solid	8021B	2756
890-630-4	FS04	Total/NA	Solid	8021B	2756
890-630-5	FS05	Total/NA	Solid	8021B	2756
890-630-6	FS06	Total/NA	Solid	8021B	2756
890-630-7	FS07	Total/NA	Solid	8021B	2756
890-630-8	FS08	Total/NA	Solid	8021B	2756
MB 880-2756/5-A	Method Blank	Total/NA	Solid	8021B	2756

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

GC VOA (Continued)

Analysis Batch: 2758 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-2756/1-A	Lab Control Sample	Total/NA	Solid	8021B	2756
LCSD 880-2756/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2756

GC Semi VOA

Prep Batch: 2771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-630-1	FS01	Total/NA	Solid	8015NM Prep	
890-630-2	FS02	Total/NA	Solid	8015NM Prep	
890-630-3	FS03	Total/NA	Solid	8015NM Prep	
890-630-4	FS04	Total/NA	Solid	8015NM Prep	
890-630-5	FS05	Total/NA	Solid	8015NM Prep	
890-630-6	FS06	Total/NA	Solid	8015NM Prep	
890-630-7	FS07	Total/NA	Solid	8015NM Prep	
890-630-8	FS08	Total/NA	Solid	8015NM Prep	
890-630-9	FS09	Total/NA	Solid	8015NM Prep	
890-630-10	FS10	Total/NA	Solid	8015NM Prep	
890-630-11	FS11	Total/NA	Solid	8015NM Prep	
890-630-12	FS12	Total/NA	Solid	8015NM Prep	
890-630-13	DS01	Total/NA	Solid	8015NM Prep	
890-630-14	DS02	Total/NA	Solid	8015NM Prep	
890-630-15	DS03	Total/NA	Solid	8015NM Prep	
890-630-16	DS04	Total/NA	Solid	8015NM Prep	
MB 880-2771/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2771/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-630-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-630-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 2795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-630-1	FS01	Total/NA	Solid	8015B NM	2771
890-630-2	FS02	Total/NA	Solid	8015B NM	2771
890-630-3	FS03	Total/NA	Solid	8015B NM	2771
890-630-4	FS04	Total/NA	Solid	8015B NM	2771
890-630-5	FS05	Total/NA	Solid	8015B NM	2771
890-630-6	FS06	Total/NA	Solid	8015B NM	2771
890-630-7	FS07	Total/NA	Solid	8015B NM	2771
890-630-8	FS08	Total/NA	Solid	8015B NM	2771
890-630-9	FS09	Total/NA	Solid	8015B NM	2771
890-630-10	FS10	Total/NA	Solid	8015B NM	2771
890-630-11	FS11	Total/NA	Solid	8015B NM	2771
890-630-12	FS12	Total/NA	Solid	8015B NM	2771
890-630-13	DS01	Total/NA	Solid	8015B NM	2771
890-630-14	DS02	Total/NA	Solid	8015B NM	2771
890-630-15	DS03	Total/NA	Solid	8015B NM	2771
890-630-16	DS04	Total/NA	Solid	8015B NM	2771
MB 880-2771/1-A	Method Blank	Total/NA	Solid	8015B NM	2771
LCS 880-2771/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2771
LCSD 880-2771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2771
890-630-1 MS	FS01	Total/NA	Solid	8015B NM	2771

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

GC Semi VOA (Continued)

Analysis Batch: 2795 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-630-1 MSD	FS01	Total/NA	Solid	8015B NM	2771

HPLC/IC

Leach Batch: 2778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-630-1	FS01	Soluble	Solid	DI Leach	
890-630-2	FS02	Soluble	Solid	DI Leach	
890-630-3	FS03	Soluble	Solid	DI Leach	
890-630-4	FS04	Soluble	Solid	DI Leach	
890-630-5	FS05	Soluble	Solid	DI Leach	
890-630-6	FS06	Soluble	Solid	DI Leach	
890-630-7	FS07	Soluble	Solid	DI Leach	
890-630-8	FS08	Soluble	Solid	DI Leach	
890-630-9	FS09	Soluble	Solid	DI Leach	
890-630-10	FS10	Soluble	Solid	DI Leach	
890-630-11	FS11	Soluble	Solid	DI Leach	
890-630-12	FS12	Soluble	Solid	DI Leach	
890-630-13	DS01	Soluble	Solid	DI Leach	
890-630-14	DS02	Soluble	Solid	DI Leach	
890-630-15	DS03	Soluble	Solid	DI Leach	
890-630-16	DS04	Soluble	Solid	DI Leach	
MB 880-2778/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2778/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2778/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-630-7 MS	FS07	Soluble	Solid	DI Leach	
890-630-7 MSD	FS07	Soluble	Solid	DI Leach	

Analysis Batch: 2785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-630-1	FS01	Soluble	Solid	300.0	2778
890-630-2	FS02	Soluble	Solid	300.0	2778
890-630-3	FS03	Soluble	Solid	300.0	2778
890-630-4	FS04	Soluble	Solid	300.0	2778
890-630-5	FS05	Soluble	Solid	300.0	2778
890-630-6	FS06	Soluble	Solid	300.0	2778
890-630-7	FS07	Soluble	Solid	300.0	2778
890-630-8	FS08	Soluble	Solid	300.0	2778
890-630-9	FS09	Soluble	Solid	300.0	2778
890-630-10	FS10	Soluble	Solid	300.0	2778
890-630-11	FS11	Soluble	Solid	300.0	2778
890-630-12	FS12	Soluble	Solid	300.0	2778
890-630-13	DS01	Soluble	Solid	300.0	2778
890-630-14	DS02	Soluble	Solid	300.0	2778
890-630-15	DS03	Soluble	Solid	300.0	2778
890-630-16	DS04	Soluble	Solid	300.0	2778
MB 880-2778/1-A	Method Blank	Soluble	Solid	300.0	2778
LCS 880-2778/2-A	Lab Control Sample	Soluble	Solid	300.0	2778
LCSD 880-2778/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2778
890-630-7 MS	FS07	Soluble	Solid	300.0	2778
890-630-7 MSD	FS07	Soluble	Solid	300.0	2778

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Client Sample ID: FS01

Lab Sample ID: 890-630-1

Date Collected: 05/05/21 09:00

Matrix: Solid

Date Received: 05/05/21 13:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2756	05/06/21 11:00	KL	XM
Total/NA	Analysis	8021B		1	2758	05/06/21 12:57	KL	XM
Total/NA	Prep	8015NM Prep			2771	05/06/21 11:32	DM	XM
Total/NA	Analysis	8015B NM		1	2795	05/06/21 22:39	AJ	XM
Soluble	Leach	DI Leach			2778	05/06/21 11:46	CH	XM
Soluble	Analysis	300.0		5	2785	05/06/21 15:17	SC	XM

Client Sample ID: FS02

Lab Sample ID: 890-630-2

Date Collected: 05/05/21 09:05

Matrix: Solid

Date Received: 05/05/21 13:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2756	05/06/21 11:00	KL	XM
Total/NA	Analysis	8021B		1	2758	05/06/21 13:18	KL	XM
Total/NA	Prep	8015NM Prep			2771	05/06/21 11:32	DM	XM
Total/NA	Analysis	8015B NM		1	2795	05/06/21 23:41	AJ	XM
Soluble	Leach	DI Leach			2778	05/06/21 11:46	CH	XM
Soluble	Analysis	300.0		1	2785	05/06/21 15:33	SC	XM

Client Sample ID: FS03

Lab Sample ID: 890-630-3

Date Collected: 05/05/21 09:10

Matrix: Solid

Date Received: 05/05/21 13:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2756	05/06/21 11:00	KL	XM
Total/NA	Analysis	8021B		1	2758	05/06/21 13:38	KL	XM
Total/NA	Prep	8015NM Prep			2771	05/06/21 11:32	DM	XM
Total/NA	Analysis	8015B NM		1	2795	05/07/21 00:02	AJ	XM
Soluble	Leach	DI Leach			2778	05/06/21 11:46	CH	XM
Soluble	Analysis	300.0		1	2785	05/06/21 15:38	SC	XM

Client Sample ID: FS04

Lab Sample ID: 890-630-4

Date Collected: 05/05/21 09:15

Matrix: Solid

Date Received: 05/05/21 13:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2756	05/06/21 11:00	KL	XM
Total/NA	Analysis	8021B		1	2758	05/06/21 13:58	KL	XM
Total/NA	Prep	8015NM Prep			2771	05/06/21 11:32	DM	XM
Total/NA	Analysis	8015B NM		1	2795	05/07/21 00:23	AJ	XM
Soluble	Leach	DI Leach			2778	05/06/21 11:46	CH	XM
Soluble	Analysis	300.0		1	2785	05/06/21 15:43	SC	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Client Sample ID: FS05

Lab Sample ID: 890-630-5

Date Collected: 05/05/21 09:20

Matrix: Solid

Date Received: 05/05/21 13:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2756	05/06/21 11:00	KL	XM
Total/NA	Analysis	8021B		1	2758	05/06/21 14:19	KL	XM
Total/NA	Prep	8015NM Prep			2771	05/06/21 11:32	DM	XM
Total/NA	Analysis	8015B NM		1	2795	05/07/21 00:44	AJ	XM
Soluble	Leach	DI Leach			2778	05/06/21 11:46	CH	XM
Soluble	Analysis	300.0		1	2785	05/06/21 15:48	SC	XM

Client Sample ID: FS06

Lab Sample ID: 890-630-6

Date Collected: 05/05/21 09:25

Matrix: Solid

Date Received: 05/05/21 13:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2756	05/06/21 11:00	KL	XM
Total/NA	Analysis	8021B		1	2758	05/06/21 14:39	KL	XM
Total/NA	Prep	8015NM Prep			2771	05/06/21 11:32	DM	XM
Total/NA	Analysis	8015B NM		1	2795	05/07/21 01:05	AJ	XM
Soluble	Leach	DI Leach			2778	05/06/21 11:46	CH	XM
Soluble	Analysis	300.0		5	2785	05/06/21 15:53	SC	XM

Client Sample ID: FS07

Lab Sample ID: 890-630-7

Date Collected: 05/05/21 09:30

Matrix: Solid

Date Received: 05/05/21 13:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2756	05/06/21 11:00	KL	XM
Total/NA	Analysis	8021B		1	2758	05/06/21 15:00	KL	XM
Total/NA	Prep	8015NM Prep			2771	05/06/21 11:32	DM	XM
Total/NA	Analysis	8015B NM		1	2795	05/07/21 01:26	AJ	XM
Soluble	Leach	DI Leach			2778	05/06/21 11:46	CH	XM
Soluble	Analysis	300.0		5	2785	05/06/21 15:59	SC	XM

Client Sample ID: FS08

Lab Sample ID: 890-630-8

Date Collected: 05/05/21 09:35

Matrix: Solid

Date Received: 05/05/21 13:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2756	05/06/21 11:00	KL	XM
Total/NA	Analysis	8021B		1	2758	05/06/21 15:20	KL	XM
Total/NA	Prep	8015NM Prep			2771	05/06/21 11:32	DM	XM
Total/NA	Analysis	8015B NM		1	2795	05/07/21 01:47	AJ	XM
Soluble	Leach	DI Leach			2778	05/06/21 11:46	CH	XM
Soluble	Analysis	300.0		1	2785	05/06/21 16:14	SC	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Client Sample ID: FS09

Lab Sample ID: 890-630-9

Date Collected: 05/05/21 09:40

Matrix: Solid

Date Received: 05/05/21 13:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2707	05/06/21 11:00	KL	XM
Total/NA	Analysis	8021B		1	2757	05/06/21 12:58	KL	XM
Total/NA	Prep	8015NM Prep			2771	05/06/21 11:32	DM	XM
Total/NA	Analysis	8015B NM		1	2795	05/07/21 02:08	AJ	XM
Soluble	Leach	DI Leach			2778	05/06/21 11:46	CH	XM
Soluble	Analysis	300.0		5	2785	05/06/21 16:19	SC	XM

Client Sample ID: FS10

Lab Sample ID: 890-630-10

Date Collected: 05/05/21 09:45

Matrix: Solid

Date Received: 05/05/21 13:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2707	05/06/21 11:00	KL	XM
Total/NA	Analysis	8021B		1	2757	05/06/21 13:19	KL	XM
Total/NA	Prep	8015NM Prep			2771	05/06/21 11:32	DM	XM
Total/NA	Analysis	8015B NM		1	2795	05/07/21 02:28	AJ	XM
Soluble	Leach	DI Leach			2778	05/06/21 11:46	CH	XM
Soluble	Analysis	300.0		1	2785	05/06/21 16:35	SC	XM

Client Sample ID: FS11

Lab Sample ID: 890-630-11

Date Collected: 05/05/21 09:50

Matrix: Solid

Date Received: 05/05/21 13:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2707	05/06/21 11:00	KL	XM
Total/NA	Analysis	8021B		1	2757	05/06/21 13:40	KL	XM
Total/NA	Prep	8015NM Prep			2771	05/06/21 11:32	DM	XM
Total/NA	Analysis	8015B NM		1	2795	05/07/21 03:10	AJ	XM
Soluble	Leach	DI Leach			2778	05/06/21 11:46	CH	XM
Soluble	Analysis	300.0		5	2785	05/06/21 16:40	SC	XM

Client Sample ID: FS12

Lab Sample ID: 890-630-12

Date Collected: 05/05/21 09:55

Matrix: Solid

Date Received: 05/05/21 13:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2707	05/06/21 11:00	KL	XM
Total/NA	Analysis	8021B		1	2757	05/06/21 14:00	KL	XM
Total/NA	Prep	8015NM Prep			2771	05/06/21 11:32	DM	XM
Total/NA	Analysis	8015B NM		1	2795	05/07/21 03:31	AJ	XM
Soluble	Leach	DI Leach			2778	05/06/21 11:46	CH	XM
Soluble	Analysis	300.0		1	2785	05/06/21 16:45	SC	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Client Sample ID: DS01

Date Collected: 05/05/21 10:00

Date Received: 05/05/21 13:17

Lab Sample ID: 890-630-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2707	05/06/21 11:00	KL	XM
Total/NA	Analysis	8021B		1	2757	05/06/21 14:21	KL	XM
Total/NA	Prep	8015NM Prep			2771	05/06/21 11:32	DM	XM
Total/NA	Analysis	8015B NM		1	2795	05/07/21 03:52	AJ	XM
Soluble	Leach	DI Leach			2778	05/06/21 11:46	CH	XM
Soluble	Analysis	300.0		1	2785	05/06/21 16:50	SC	XM

Client Sample ID: DS02

Date Collected: 05/05/21 10:05

Date Received: 05/05/21 13:17

Lab Sample ID: 890-630-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2707	05/06/21 11:00	KL	XM
Total/NA	Analysis	8021B		1	2757	05/06/21 14:42	KL	XM
Total/NA	Prep	8015NM Prep			2771	05/06/21 11:32	DM	XM
Total/NA	Analysis	8015B NM		1	2795	05/07/21 04:12	AJ	XM
Soluble	Leach	DI Leach			2778	05/06/21 11:46	CH	XM
Soluble	Analysis	300.0		1	2785	05/06/21 16:55	SC	XM

Client Sample ID: DS03

Date Collected: 05/05/21 10:10

Date Received: 05/05/21 13:17

Lab Sample ID: 890-630-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2707	05/06/21 11:00	KL	XM
Total/NA	Analysis	8021B		1	2757	05/06/21 15:03	KL	XM
Total/NA	Prep	8015NM Prep			2771	05/06/21 11:32	DM	XM
Total/NA	Analysis	8015B NM		1	2795	05/07/21 04:33	AJ	XM
Soluble	Leach	DI Leach			2778	05/06/21 11:46	CH	XM
Soluble	Analysis	300.0		1	2785	05/06/21 17:01	SC	XM

Client Sample ID: DS04

Date Collected: 05/05/21 10:15

Date Received: 05/05/21 13:17

Lab Sample ID: 890-630-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2707	05/06/21 11:00	KL	XM
Total/NA	Analysis	8021B		1	2757	05/06/21 15:23	KL	XM
Total/NA	Prep	8015NM Prep			2771	05/06/21 11:32	DM	XM
Total/NA	Analysis	8015B NM		1	2795	05/07/21 04:54	AJ	XM
Soluble	Leach	DI Leach			2778	05/06/21 11:46	CH	XM
Soluble	Analysis	300.0		1	2785	05/06/21 17:06	SC	XM

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Eurofins Xenco, Carlsbad

Method Summary

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: WPX Energy Production LLC
Project/Site: Longview Federal 12 #14H

Job ID: 890-630-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-630-1	FS01	Solid	05/05/21 09:00	05/05/21 13:17	
890-630-2	FS02	Solid	05/05/21 09:05	05/05/21 13:17	
890-630-3	FS03	Solid	05/05/21 09:10	05/05/21 13:17	
890-630-4	FS04	Solid	05/05/21 09:15	05/05/21 13:17	
890-630-5	FS05	Solid	05/05/21 09:20	05/05/21 13:17	
890-630-6	FS06	Solid	05/05/21 09:25	05/05/21 13:17	
890-630-7	FS07	Solid	05/05/21 09:30	05/05/21 13:17	
890-630-8	FS08	Solid	05/05/21 09:35	05/05/21 13:17	
890-630-9	FS09	Solid	05/05/21 09:40	05/05/21 13:17	
890-630-10	FS10	Solid	05/05/21 09:45	05/05/21 13:17	
890-630-11	FS11	Solid	05/05/21 09:50	05/05/21 13:17	
890-630-12	FS12	Solid	05/05/21 09:55	05/05/21 13:17	
890-630-13	DS01	Solid	05/05/21 10:00	05/05/21 13:17	
890-630-14	DS02	Solid	05/05/21 10:05	05/05/21 13:17	
890-630-15	DS03	Solid	05/05/21 10:10	05/05/21 13:17	
890-630-16	DS04	Solid	05/05/21 10:15	05/05/21 13:17	

Eurofins Xenco, Carlsbad



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 968-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Lynda Laumbach	Bill to: (if different)	
Company Name:	WPP Energy Permian LLC	Company Name:	
Address:	5315 Buena Vista Dr	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	575-725-1647	Email:	Lynda.Laumbach@wppenergy.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	Longview Federal 1-44H	Turn Around	Pres. Code	ANALYSIS REQUEST		Preservative Codes
Project Number:		☐ Routine ☒ Rush				None: NO DI Water: H ₂ O
Project Location:		Due Date:				Cool: Cool MeOH: Me
Sampler's Name:	Tyler Dominguez	TAT starts the day received by the lab, if received by 4:30pm				HCL: HC HNO ₃ : HN
PO #:						H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☐ No	Wet Ice: ☒ Yes ☐ No				H ₃ PO ₄ : HP
Samples Received Intact:	☒ Yes ☐ No	Thermometer ID:	FC11627			NaHSO ₄ : NABIS
Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor:	-0.2			Na ₂ S ₂ O ₃ : NASO ₃
Sample Custody Seals:	☒ Yes ☐ No	Temperature Reading:	5.2			Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:	4.8			NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Cont	# of	Parameters	Sample Comments
FS01	S	5-5-21	9:00	0-5'	G	1	Chlorides (EPA 300.00)	
FS02			9:05				BTEX (Method 8021)	
FS03			9:10				TPH (Method 8015)	
FS04			9:15					
FS05			9:20					
FS06			9:25					
FS07			9:30					
FS08			9:35					
FS09			9:40					
FS10			9:45					

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Matrix(es) to be analyzed: TCLP / SWCLP 6010, 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		5-5-21/13:18			



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com

Page 2 of 2

Project Manager:	Lynnda Lounsbach	Bill to: (if different)	
Company Name:	WBPX Energy Permian LLC	Company Name:	
Address:	5315 Buena Vista Dr	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	575-725-1697	Email:	Lynnda.Lounsbach@WBPXenergy.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	Longview Federal 1-44H	Turn Around	Pres. Code	ANALYSIS REQUEST																Preservative Codes
Project Number:		☐ Routine ☒ Rush																		None: NO
Project Location:		Due Date:																		Cool: Cool
Sampler's Name:	Tyler Dominguez	TAT starts the day received by the lab, if received by 4:30pm																		HCL: HC
PO #:																				H ₂ SO ₄ : H ₂
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☒ No	Wet Ice: ☒ Yes ☒ No																		H ₃ PO ₄ : HP
Samples Received Intact:	☒ Yes ☒ No	Thermometer ID:	T-NM-027																	NaHSO ₄ : NABIS
Cooler Custody Seals:	Yes ☒ No ☒ NA	Correction Factor:	-0.7																	Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes ☒ No ☒ NA	Temperature Reading:	3.0																	Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:	4.8																	NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Cont	# of											Sample Comments			
FS11	S	5-5-21	9:50	0.5	G	1											X Chlorides (EPA 300.00)			
FS12			9:55														X BTEX (Method 8021)			
DS01			10:05														X TPH (Method 8015)			
DS02			10:05																	
DS03			10:10																	
DS04			10:15																	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
CICLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631/245.1/7470/7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		5-5-21/13:18			

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)				Sampler	Lab PM	Carrier Tracking No(s)	COC No							
Client Contact: Shipping/Receiving				Phone	E-Mail: Jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 2							
Company: Eurofins Xenco				Due Date Requested: 5/6/2021	Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-630-1							
Address: 1211 W Florida Ave				TAT Requested (days)	Analysis Requested									
City: Midland														
State, Zip: TX, 79701														
Phone: 432-704-5440(Tel)				PO #:										
Email:				WO #:										
Project Name: Longview Federal 1-44H				Project #: 88000204										
Site: SSOV#:														
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=soil, BT=soil, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_280/DI_LEACH Chloride	8015MOD_NM/8016NM_S_Prep Full TPH	8021B/6036FP_Calc BTEX	Total Number of containers	Special Instructions/Note:
FS01 (890-630-1)				5/5/21	09 00		Solid		X	X	X	1		
FS02 (890-630-2)				5/5/21	09 05		Solid		X	X	X	1		
FS03 (890-630-3)				5/5/21	09 10		Solid		X	X	X	1		
FS04 (890-630-4)				5/5/21	09 15		Solid		X	X	X	1		
FS05 (890-630-5)				5/5/21	09 20		Solid		X	X	X	1		
FS06 (890-630-6)				5/5/21	09 25		Solid		X	X	X	1		
FS07 (890-630-7)				5/5/21	09 30		Solid		X	X	X	1		
FS08 (890-630-8)				5/5/21	09 35		Solid		X	X	X	1		
FS09 (890-630-9)				5/5/21	09 40		Solid		X	X	X	1		

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analyte(s)/test(s) being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: Date/Time: Company: Time: Method of Shipment: 5-0-21 W.Dam

Relinquished by: Date/Time: Company: Received by: Date/Time: Company: 5-0-21 W.Dam

Relinquished by: Date/Time: Company: Received by: Date/Time: Company: 5-0-21 W.Dam

Custody Seals Intact: Δ Yes Δ No Custody Seal No Cooler Temperature(s) °C and Other Remarks.

Login Sample Receipt Checklist

Client: WPX Energy Production LLC

Job Number: 890-630-1

SDG Number:

Login Number: 630

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: WPX Energy Production LLC

Job Number: 890-630-1

SDG Number:

Login Number: 630

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Midland

List Creation: 05/06/21 11:23 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Certificate of Analysis Summary 684808



WPX Energy Permian Basin, LLC, Carlsbad, NM

Project Name: Longview 12-14 H

Project Id:

Date Received in Lab: Fri 01.15.2021 08:52

Contact: Lynda Laumbach

Report Date: 01.19.2021 13:24

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	684808-001	684808-002	684808-003	684808-004	684808-005	684808-006
	<i>Field Id:</i>	SW01	SW02	SW03	SW04	FS01	FS02
	<i>Depth:</i>	.5-1 ft	.5-1 ft	.5-1 ft	.5-1 ft	.5-1 ft	.5-1 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.14.2021 12:00	01.14.2021 12:10	01.14.2021 12:15	01.14.2021 12:25	01.14.2021 12:50	01.14.2021 13:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.15.2021 13:00	01.15.2021 13:00	01.15.2021 13:00	01.15.2021 13:00	01.15.2021 13:00	01.15.2021 13:00
	<i>Analyzed:</i>	01.15.2021 18:29	01.15.2021 18:52	01.15.2021 19:14	01.15.2021 19:37	01.15.2021 21:19	01.15.2021 21:42
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200
m,p-Xylenes		<0.00399 0.00399	<0.00398 0.00398	<0.00399 0.00399	<0.00397 0.00397	<0.00402 0.00402	<0.00401 0.00401
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200
Inorganic Anions by EPA 300	<i>Extracted:</i>	01.15.2021 15:00	01.15.2021 15:00	01.15.2021 15:00	01.15.2021 15:00	01.15.2021 15:00	01.15.2021 15:00
	<i>Analyzed:</i>	01.15.2021 16:29	01.15.2021 16:34	01.15.2021 16:40	01.15.2021 16:46	01.15.2021 16:52	01.15.2021 17:09
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2620 199	3030 199	1240 100	578 50.1	2350 X 201	2170 90.9
TPH by SW8015 Mod	<i>Extracted:</i>	01.15.2021 12:10	01.15.2021 12:10	01.15.2021 12:10	01.15.2021 12:10	01.15.2021 12:10	01.15.2021 12:10
	<i>Analyzed:</i>	01.15.2021 17:02	01.15.2021 17:23	01.15.2021 17:43	01.15.2021 18:03	01.15.2021 18:43	01.15.2021 19:04
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.1 50.1	<50.0 50.0	<50.2 50.2	<251 251	<249 249
Diesel Range Organics (DRO)		<50.0 50.0	<50.1 50.1	<50.0 50.0	<50.2 50.2	1300 251	1720 249
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.1 50.1	<50.0 50.0	<50.2 50.2	307 251	289 249
Total TPH		<50.0 50.0	<50.1 50.1	<50.0 50.0	<50.2 50.2	1610 251	2010 249

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Certificate of Analysis Summary 684808



WPX Energy Permian Basin, LLC, Carlsbad, NM

Project Name: Longview 12-14 H

Project Id:

Date Received in Lab: Fri 01.15.2021 08:52

Contact: Lynda Laumbach

Report Date: 01.19.2021 13:24

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	684808-007	684808-008	684808-009	684808-010	684808-011	684808-012
	<i>Field Id:</i>	FS03	FS04	FS05	FS06	FS07	FS08
	<i>Depth:</i>	.5-1 ft	.5-1 ft	.5-1 ft	.5-1 ft	.5-1 ft	.5-1 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.14.2021 13:10	01.14.2021 13:15	01.14.2021 13:20	01.14.2021 13:25	01.14.2021 13:30	01.14.2021 13:40
BTEX by EPA 8021B	<i>Extracted:</i>	01.15.2021 13:00	01.15.2021 13:00	01.18.2021 11:08	01.15.2021 13:00	01.15.2021 13:00	01.15.2021 13:00
	<i>Analyzed:</i>	01.15.2021 22:04	01.15.2021 22:27	01.18.2021 21:50	01.15.2021 23:11	01.15.2021 23:34	01.15.2021 23:56
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00228 0.00228	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00228 0.00228	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00228 0.00228	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		<0.00399 0.00399	<0.00398 0.00398	<0.00456 0.00456	<0.00399 0.00399	<0.00398 0.00398	<0.00399 0.00399
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00228 0.00228	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00228 0.00228	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00228 0.00228	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Inorganic Anions by EPA 300	<i>Extracted:</i>	01.15.2021 15:00	01.15.2021 15:00	01.15.2021 15:00	01.15.2021 15:00	01.15.2021 15:00	01.15.2021 15:00
	<i>Analyzed:</i>	01.15.2021 17:14	01.15.2021 17:31	01.15.2021 17:37	01.15.2021 17:43	01.15.2021 17:49	01.15.2021 17:54
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2980 201	4100 202	1110 50.5	860 202	4130 100	1640 100
TPH by SW8015 Mod	<i>Extracted:</i>	01.15.2021 12:10	01.15.2021 12:10	01.15.2021 12:10	01.15.2021 12:10	01.15.2021 12:10	01.15.2021 12:10
	<i>Analyzed:</i>	01.15.2021 19:24	01.15.2021 19:44	01.15.2021 20:04	01.15.2021 20:24	01.15.2021 20:44	01.15.2021 21:04
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<251 251	<251 251	<250 250	<251 251	<251 251
Diesel Range Organics (DRO)		<50.2 50.2	1770 251	1710 251	2240 250	1870 251	2780 251
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	315 251	279 251	251 250	360 251	352 251
Total TPH		<50.2 50.2	2090 251	1990 251	2490 250	2230 251	3130 251

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Certificate of Analysis Summary 684808



WPX Energy Permian Basin, LLC, Carlsbad, NM

Project Name: Longview 12-14 H

Project Id:

Date Received in Lab: Fri 01.15.2021 08:52

Contact: Lynda Laumbach

Report Date: 01.19.2021 13:24

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	684808-013	684808-014	684808-015	684808-016	684808-017	684808-018
	<i>Field Id:</i>	FS09	FS10	FS11	FS12	FS13	FS14
	<i>Depth:</i>	.5-1 ft	.5-1 ft	.5-1 ft	.5-1 ft	.5-1 ft	.5-1 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.14.2021 13:45	01.14.2021 13:50	01.14.2021 13:55	01.14.2021 12:45	01.14.2021 12:35	01.14.2021 14:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.15.2021 13:00	01.15.2021 13:00	01.15.2021 13:00	01.15.2021 13:00	01.15.2021 13:00	01.15.2021 13:00
	<i>Analyzed:</i>	01.16.2021 00:19	01.16.2021 00:41	01.15.2021 18:55	01.15.2021 19:17	01.15.2021 19:40	01.15.2021 20:02
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Toluene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Ethylbenzene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		<0.00397 0.00397	<0.00401 0.00401	<0.00399 0.00399	<0.00401 0.00401	<0.00398 0.00398	<0.00399 0.00399
o-Xylene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total Xylenes		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Inorganic Anions by EPA 300	<i>Extracted:</i>	01.15.2021 15:00	01.15.2021 15:00	01.15.2021 15:00	01.15.2021 15:00	01.15.2021 15:00	01.15.2021 15:00
	<i>Analyzed:</i>	01.15.2021 18:00	01.15.2021 18:06	01.15.2021 19:09	01.15.2021 19:26	01.15.2021 19:31	01.15.2021 19:37
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1130 50.5	1110 50.1	1530 99.8	822 49.8	679 49.8	1360 99.6
TPH by SW8015 Mod	<i>Extracted:</i>	01.15.2021 12:10	01.15.2021 12:10	01.15.2021 12:00	01.15.2021 12:00	01.15.2021 12:00	01.15.2021 12:00
	<i>Analyzed:</i>	01.15.2021 21:24	01.15.2021 21:44	01.15.2021 14:19	01.15.2021 15:19	01.15.2021 15:39	01.15.2021 15:59
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<250 250	<251 251	<50.2 50.2	<249 249	<50.2 50.2	<49.8 49.8
Diesel Range Organics (DRO)		1850 250	2260 251	<50.2 50.2	1920 249	<50.2 50.2	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		292 250	282 251	<50.2 50.2	<249 249	<50.2 50.2	<49.8 49.8
Total TPH		2140 250	2540 251	<50.2 50.2	1920 249	<50.2 50.2	<49.8 49.8

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Certificate of Analysis Summary 684808



WPX Energy Permian Basin, LLC, Carlsbad, NM

Project Name: Longview 12-14 H

Project Id:

Date Received in Lab: Fri 01.15.2021 08:52

Contact: Lynda Laumbach

Report Date: 01.19.2021 13:24

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	684808-019	684808-020	684808-021	684808-022	684808-023	684808-024
	<i>Field Id:</i>	FS15	FS16	FS17	FS18	DS01	DS02
	<i>Depth:</i>	.5-1 ft	.5-1 ft	.5-1 ft	.5-1 ft	0-.25 ft	0-.25 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.14.2021 14:15	01.14.2021 14:20	01.14.2021 14:25	01.14.2021 14:30	01.14.2021 14:40	01.14.2021 14:45
BTEX by EPA 8021B	<i>Extracted:</i>	01.15.2021 13:00	01.15.2021 13:00	01.15.2021 13:00	01.15.2021 13:00	01.15.2021 13:00	01.15.2021 13:00
	<i>Analyzed:</i>	01.15.2021 21:42	01.15.2021 22:04	01.15.2021 22:27	01.15.2021 22:49	01.15.2021 23:12	01.15.2021 23:34
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Toluene		<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene		<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes		<0.00397 0.00397	<0.00399 0.00399	<0.00403 0.00403	<0.00400 0.00400	<0.00397 0.00397	<0.00399 0.00399
o-Xylene		<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Total Xylenes		<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Total BTEX		<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Inorganic Anions by EPA 300	<i>Extracted:</i>	01.15.2021 15:00	01.15.2021 15:00	01.15.2021 15:00	01.15.2021 15:00	01.15.2021 15:00	01.15.2021 15:00
	<i>Analyzed:</i>	01.15.2021 19:43	01.15.2021 20:00	01.15.2021 20:05	01.15.2021 20:11	01.15.2021 20:17	01.15.2021 20:22
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1380 100	648 50.2	1120 49.7	1480 101	304 50.4	1110 49.9
TPH by SW8015 Mod	<i>Extracted:</i>	01.15.2021 12:00	01.15.2021 12:00	01.15.2021 12:00	01.15.2021 12:00	01.15.2021 12:00	01.15.2021 12:00
	<i>Analyzed:</i>	01.15.2021 16:22	01.15.2021 16:42	01.15.2021 17:02	01.15.2021 17:23	01.15.2021 17:43	01.15.2021 18:03
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.1 50.1	<50.2 50.2	<50.1 50.1	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<50.1 50.1	<50.2 50.2	<50.1 50.1	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.1 50.1	<50.2 50.2	<50.1 50.1	<50.0 50.0	<50.0 50.0
Total TPH		<50.0 50.0	<50.1 50.1	<50.2 50.2	<50.1 50.1	<50.0 50.0	<50.0 50.0

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Certificate of Analysis Summary 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Project Name: Longview 12-14 H

Project Id:

Date Received in Lab: Fri 01.15.2021 08:52

Contact: Lynda Laumbach

Report Date: 01.19.2021 13:24

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	684808-025	684808-026				
	Field Id:	DS03	DS04				
	Depth:	0-.25 ft	0-.25 ft				
	Matrix:	SOIL	SOIL				
	Sampled:	01.14.2021 14:50	01.14.2021 14:55				
BTEX by EPA 8021B	Extracted:	01.15.2021 13:00	01.15.2021 13:00				
	Analyzed:	01.15.2021 23:56	01.16.2021 00:19				
	Units/RL:	mg/kg RL	mg/kg RL				
		<0.00198 0.00198	<0.00200 0.00200				
Benzene		<0.00198 0.00198	<0.00200 0.00200				
Toluene		<0.00198 0.00198	<0.00200 0.00200				
Ethylbenzene		<0.00198 0.00198	<0.00200 0.00200				
m,p-Xylenes		<0.00397 0.00397	<0.00399 0.00399				
o-Xylene		<0.00198 0.00198	<0.00200 0.00200				
Total Xylenes		<0.00198 0.00198	<0.00200 0.00200				
Total BTEX		<0.00198 0.00198	<0.00200 0.00200				
Inorganic Anions by EPA 300	Extracted:	01.15.2021 15:00	01.15.2021 15:00				
	Analyzed:	01.15.2021 20:28	01.15.2021 20:45				
	Units/RL:	mg/kg RL	mg/kg RL				
		690 49.5	62.0 9.90				
Chloride							
TPH by SW8015 Mod	Extracted:	01.15.2021 12:00	01.15.2021 12:00				
	Analyzed:	01.15.2021 18:43	01.15.2021 19:04				
	Units/RL:	mg/kg RL	mg/kg RL				
		<50.2 50.2	<50.1 50.1				
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<50.1 50.1				
Diesel Range Organics (DRO)		<50.2 50.2	<50.1 50.1				
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<50.1 50.1				
Total TPH		<50.2 50.2	<50.1 50.1				

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico





Analytical Report 684808

for

WPX Energy Permian Basin, LLC

Project Manager: Lynda Laumbach

Longview 12-14 H

01.19.2021

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



01.19.2021

Project Manager: **Lynda Laumbach**
WPX Energy Permian Basin, LLC
5315 Buena Vista Dr.
Carlsbad, NM 88220

Reference: Eurofins Xenco, LLC Report No(s): **684808**
Longview 12-14 H
Project Address: Eddy County, New Mexico

Lynda Laumbach:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684808. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684808 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW01	S	01.14.2021 12:00	.5 - 1 ft	684808-001
SW02	S	01.14.2021 12:10	.5 - 1 ft	684808-002
SW03	S	01.14.2021 12:15	.5 - 1 ft	684808-003
SW04	S	01.14.2021 12:25	.5 - 1 ft	684808-004
FS01	S	01.14.2021 12:50	.5 - 1 ft	684808-005
FS02	S	01.14.2021 13:00	.5 - 1 ft	684808-006
FS03	S	01.14.2021 13:10	.5 - 1 ft	684808-007
FS04	S	01.14.2021 13:15	.5 - 1 ft	684808-008
FS05	S	01.14.2021 13:20	.5 - 1 ft	684808-009
FS06	S	01.14.2021 13:25	.5 - 1 ft	684808-010
FS07	S	01.14.2021 13:30	.5 - 1 ft	684808-011
FS08	S	01.14.2021 13:40	.5 - 1 ft	684808-012
FS09	S	01.14.2021 13:45	.5 - 1 ft	684808-013
FS10	S	01.14.2021 13:50	.5 - 1 ft	684808-014
FS11	S	01.14.2021 13:55	.5 - 1 ft	684808-015
FS12	S	01.14.2021 12:45	.5 - 1 ft	684808-016
FS13	S	01.14.2021 12:35	.5 - 1 ft	684808-017
FS14	S	01.14.2021 14:00	.5 - 1 ft	684808-018
FS15	S	01.14.2021 14:15	.5 - 1 ft	684808-019
FS16	S	01.14.2021 14:20	.5 - 1 ft	684808-020
FS17	S	01.14.2021 14:25	.5 - 1 ft	684808-021
FS18	S	01.14.2021 14:30	.5 - 1 ft	684808-022
DS01	S	01.14.2021 14:40	0 - .25 ft	684808-023
DS02	S	01.14.2021 14:45	0 - .25 ft	684808-024
DS03	S	01.14.2021 14:50	0 - .25 ft	684808-025
DS04	S	01.14.2021 14:55	0 - .25 ft	684808-026



CASE NARRATIVE

Client Name: WPX Energy Permian Basin, LLC

Project Name: Longview 12-14 H

Project ID:

Work Order Number(s): 684808

Report Date: 01.19.2021

Date Received: 01.15.2021

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **SW01** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-001 Date Collected: 01.14.2021 12:00 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148035 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2620	199	mg/kg	01.16.2021 05:16		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:10 % Moisture:
 Seq Number: 3148052 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.15.2021 17:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.15.2021 17:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.15.2021 17:02	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.15.2021 17:02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	01.15.2021 17:02		
o-Terphenyl	84-15-1	118	%	70-135	01.15.2021 17:02		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **SW01**
Lab Sample Id: 684808-001

Matrix: Soil
Date Collected: 01.14.2021 12:00

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.15.2021 18:29	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.15.2021 18:29	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.15.2021 18:29	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.15.2021 18:29	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.15.2021 18:29	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.15.2021 18:29	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.15.2021 18:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.15.2021 18:29	
4-Bromofluorobenzene	460-00-4	119	%	70-130	01.15.2021 18:29	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **SW02** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-002 Date Collected: 01.14.2021 12:10 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148035 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3030	199	mg/kg	01.16.2021 05:22		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:10 % Moisture:
 Seq Number: 3148052 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.15.2021 17:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.15.2021 17:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.15.2021 17:23	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.15.2021 17:23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	99	%	70-135	01.15.2021 17:23		
o-Terphenyl	84-15-1	106	%	70-135	01.15.2021 17:23		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **SW02**
Lab Sample Id: 684808-002

Matrix: Soil
Date Collected: 01.14.2021 12:10

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.15.2021 18:52	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.15.2021 18:52	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.15.2021 18:52	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.15.2021 18:52	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.15.2021 18:52	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.15.2021 18:52	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.15.2021 18:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.15.2021 18:52	
4-Bromofluorobenzene	460-00-4	121	%	70-130	01.15.2021 18:52	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **SW03** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-003 Date Collected: 01.14.2021 12:15 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148035 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1240	100	mg/kg	01.15.2021 16:40		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:10 % Moisture:
 Seq Number: 3148052 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.15.2021 17:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.15.2021 17:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.15.2021 17:43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.15.2021 17:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	01.15.2021 17:43	
o-Terphenyl	84-15-1	108	%	70-135	01.15.2021 17:43	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **SW03**
Lab Sample Id: 684808-003

Matrix: Soil
Date Collected: 01.14.2021 12:15

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.15.2021 19:14	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.15.2021 19:14	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.15.2021 19:14	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.15.2021 19:14	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.15.2021 19:14	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.15.2021 19:14	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.15.2021 19:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	01.15.2021 19:14	
4-Bromofluorobenzene	460-00-4	121	%	70-130	01.15.2021 19:14	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **SW04** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-004 Date Collected: 01.14.2021 12:25 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148035 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	578	50.1	mg/kg	01.15.2021 16:46		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:10 % Moisture:
 Seq Number: 3148052 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.15.2021 18:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.15.2021 18:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.15.2021 18:03	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.15.2021 18:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	01.15.2021 18:03	
o-Terphenyl	84-15-1	108	%	70-135	01.15.2021 18:03	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **SW04**
Lab Sample Id: 684808-004

Matrix: Soil
Date Collected: 01.14.2021 12:25

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.15.2021 19:37	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.15.2021 19:37	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.15.2021 19:37	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.15.2021 19:37	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.15.2021 19:37	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.15.2021 19:37	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.15.2021 19:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.15.2021 19:37	
4-Bromofluorobenzene	460-00-4	121	%	70-130	01.15.2021 19:37	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS01** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-005 Date Collected: 01.14.2021 12:50 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148035 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2350	201	mg/kg	01.16.2021 05:28	X	20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:10 % Moisture:
 Seq Number: 3148052 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<251	251	mg/kg	01.15.2021 18:43	U	5
Diesel Range Organics (DRO)	C10C28DRO	1300	251	mg/kg	01.15.2021 18:43		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	307	251	mg/kg	01.15.2021 18:43		5
Total TPH	PHC635	1610	251	mg/kg	01.15.2021 18:43		5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	01.15.2021 18:43		
o-Terphenyl	84-15-1	112	%	70-135	01.15.2021 18:43		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS01**
Lab Sample Id: 684808-005

Matrix: Soil
Date Collected: 01.14.2021 12:50

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.15.2021 21:19	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.15.2021 21:19	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.15.2021 21:19	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.15.2021 21:19	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.15.2021 21:19	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.15.2021 21:19	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.15.2021 21:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.15.2021 21:19	
4-Bromofluorobenzene	460-00-4	121	%	70-130	01.15.2021 21:19	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS02** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-006 Date Collected: 01.14.2021 13:00 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148035 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2170	90.9	mg/kg	01.15.2021 17:09		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:10 % Moisture:
 Seq Number: 3148052 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<249	249	mg/kg	01.15.2021 19:04	U	5
Diesel Range Organics (DRO)	C10C28DRO	1720	249	mg/kg	01.15.2021 19:04		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	289	249	mg/kg	01.15.2021 19:04		5
Total TPH	PHC635	2010	249	mg/kg	01.15.2021 19:04		5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	99	%	70-135	01.15.2021 19:04		
o-Terphenyl	84-15-1	111	%	70-135	01.15.2021 19:04		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS02**
Lab Sample Id: 684808-006

Matrix: Soil
Date Collected: 01.14.2021 13:00

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.15.2021 21:42	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.15.2021 21:42	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.15.2021 21:42	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.15.2021 21:42	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.15.2021 21:42	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.15.2021 21:42	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.15.2021 21:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.15.2021 21:42	
1,4-Difluorobenzene	540-36-3	108	%	70-130	01.15.2021 21:42	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS03** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-007 Date Collected: 01.14.2021 13:10 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148035 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2980	201	mg/kg	01.16.2021 05:33		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:10 % Moisture:
 Seq Number: 3148052 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.15.2021 19:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.15.2021 19:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.15.2021 19:24	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.15.2021 19:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	97	%	70-135	01.15.2021 19:24		
o-Terphenyl	84-15-1	104	%	70-135	01.15.2021 19:24		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS03**
Lab Sample Id: 684808-007

Matrix: Soil
Date Collected: 01.14.2021 13:10

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.15.2021 22:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.15.2021 22:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.15.2021 22:04	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.15.2021 22:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.15.2021 22:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.15.2021 22:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.15.2021 22:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	123	%	70-130	01.15.2021 22:04	
1,4-Difluorobenzene	540-36-3	108	%	70-130	01.15.2021 22:04	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS04** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-008 Date Collected: 01.14.2021 13:15 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148035 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4100	202	mg/kg	01.16.2021 05:39		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:10 % Moisture:
 Seq Number: 3148052 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<251	251	mg/kg	01.15.2021 19:44	U	5
Diesel Range Organics (DRO)	C10C28DRO	1770	251	mg/kg	01.15.2021 19:44		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	315	251	mg/kg	01.15.2021 19:44		5
Total TPH	PHC635	2090	251	mg/kg	01.15.2021 19:44		5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	106	%	70-135	01.15.2021 19:44		
o-Terphenyl	84-15-1	105	%	70-135	01.15.2021 19:44		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS04**
Lab Sample Id: 684808-008

Matrix: Soil
Date Collected: 01.14.2021 13:15

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.15.2021 22:27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.15.2021 22:27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.15.2021 22:27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.15.2021 22:27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.15.2021 22:27	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.15.2021 22:27	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.15.2021 22:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	01.15.2021 22:27		
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.15.2021 22:27		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS05** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-009 Date Collected: 01.14.2021 13:20 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148035 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1110	50.5	mg/kg	01.15.2021 17:37		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:10 % Moisture:
 Seq Number: 3148052 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<251	251	mg/kg	01.15.2021 20:04	U	5
Diesel Range Organics (DRO)	C10C28DRO	1710	251	mg/kg	01.15.2021 20:04		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	279	251	mg/kg	01.15.2021 20:04		5
Total TPH	PHC635	1990	251	mg/kg	01.15.2021 20:04		5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	106	%	70-135	01.15.2021 20:04		
o-Terphenyl	84-15-1	114	%	70-135	01.15.2021 20:04		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS05**
Lab Sample Id: 684808-009

Matrix: Soil
Date Collected: 01.14.2021 13:20

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.18.2021 11:08

% Moisture:
Basis: Wet Weight

Seq Number: 3148177

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00228	0.00228	mg/kg	01.18.2021 21:50	U	1
Toluene	108-88-3	<0.00228	0.00228	mg/kg	01.18.2021 21:50	U	1
Ethylbenzene	100-41-4	<0.00228	0.00228	mg/kg	01.18.2021 21:50	U	1
m,p-Xylenes	179601-23-1	<0.00456	0.00456	mg/kg	01.18.2021 21:50	U	1
o-Xylene	95-47-6	<0.00228	0.00228	mg/kg	01.18.2021 21:50	U	1
Total Xylenes	1330-20-7	<0.00228	0.00228	mg/kg	01.18.2021 21:50	U	1
Total BTEX		<0.00228	0.00228	mg/kg	01.18.2021 21:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.18.2021 21:50	
4-Bromofluorobenzene	460-00-4	89	%	70-130	01.18.2021 21:50	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS06** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-010 Date Collected: 01.14.2021 13:25 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148035 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	860	202	mg/kg	01.16.2021 05:50		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:10 % Moisture:
 Seq Number: 3148052 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<250	250	mg/kg	01.15.2021 20:24	U	5
Diesel Range Organics (DRO)	C10C28DRO	2240	250	mg/kg	01.15.2021 20:24		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	251	250	mg/kg	01.15.2021 20:24		5
Total TPH	PHC635	2490	250	mg/kg	01.15.2021 20:24		5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	01.15.2021 20:24		
o-Terphenyl	84-15-1	114	%	70-135	01.15.2021 20:24		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS06**
Lab Sample Id: 684808-010

Matrix: Soil
Date Collected: 01.14.2021 13:25

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.15.2021 23:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.15.2021 23:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.15.2021 23:11	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.15.2021 23:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.15.2021 23:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.15.2021 23:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.15.2021 23:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	01.15.2021 23:11	
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.15.2021 23:11	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS07** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-011 Date Collected: 01.14.2021 13:30 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148035 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4130	100	mg/kg	01.15.2021 17:49		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:10 % Moisture:
 Seq Number: 3148052 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<251	251	mg/kg	01.15.2021 20:44	U	5
Diesel Range Organics (DRO)	C10C28DRO	1870	251	mg/kg	01.15.2021 20:44		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	360	251	mg/kg	01.15.2021 20:44		5
Total TPH	PHC635	2230	251	mg/kg	01.15.2021 20:44		5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	111	%	70-135	01.15.2021 20:44		
o-Terphenyl	84-15-1	103	%	70-135	01.15.2021 20:44		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS07**
Lab Sample Id: 684808-011

Matrix: Soil
Date Collected: 01.14.2021 13:30

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.15.2021 23:34	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.15.2021 23:34	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.15.2021 23:34	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.15.2021 23:34	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.15.2021 23:34	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.15.2021 23:34	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.15.2021 23:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.15.2021 23:34	
4-Bromofluorobenzene	460-00-4	124	%	70-130	01.15.2021 23:34	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS08** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-012 Date Collected: 01.14.2021 13:40 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148035 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1640	100	mg/kg	01.15.2021 17:54		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:10 % Moisture:
 Seq Number: 3148052 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<251	251	mg/kg	01.15.2021 21:04	U	5
Diesel Range Organics (DRO)	C10C28DRO	2780	251	mg/kg	01.15.2021 21:04		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	352	251	mg/kg	01.15.2021 21:04		5
Total TPH	PHC635	3130	251	mg/kg	01.15.2021 21:04		5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-135	01.15.2021 21:04		
o-Terphenyl	84-15-1	103	%	70-135	01.15.2021 21:04		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS08**
Lab Sample Id: 684808-012

Matrix: Soil
Date Collected: 01.14.2021 13:40

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.15.2021 23:56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.15.2021 23:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.15.2021 23:56	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.15.2021 23:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.15.2021 23:56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.15.2021 23:56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.15.2021 23:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	01.15.2021 23:56	
4-Bromofluorobenzene	460-00-4	121	%	70-130	01.15.2021 23:56	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS09** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-013 Date Collected: 01.14.2021 13:45 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148035 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1130	50.5	mg/kg	01.15.2021 18:00		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:10 % Moisture:
 Seq Number: 3148052 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<250	250	mg/kg	01.15.2021 21:24	U	5
Diesel Range Organics (DRO)	C10C28DRO	1850	250	mg/kg	01.15.2021 21:24		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	292	250	mg/kg	01.15.2021 21:24		5
Total TPH	PHC635	2140	250	mg/kg	01.15.2021 21:24		5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	103	%	70-135	01.15.2021 21:24		
o-Terphenyl	84-15-1	109	%	70-135	01.15.2021 21:24		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS09**
Lab Sample Id: 684808-013

Matrix: Soil
Date Collected: 01.14.2021 13:45

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.16.2021 00:19	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.16.2021 00:19	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.16.2021 00:19	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.16.2021 00:19	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.16.2021 00:19	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.16.2021 00:19	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.16.2021 00:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	122	%	70-130	01.16.2021 00:19	
1,4-Difluorobenzene	540-36-3	109	%	70-130	01.16.2021 00:19	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS10** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-014 Date Collected: 01.14.2021 13:50 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148035 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1110	50.1	mg/kg	01.15.2021 18:06		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:10 % Moisture:
 Seq Number: 3148052 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<251	251	mg/kg	01.15.2021 21:44	U	5
Diesel Range Organics (DRO)	C10C28DRO	2260	251	mg/kg	01.15.2021 21:44		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	282	251	mg/kg	01.15.2021 21:44		5
Total TPH	PHC635	2540	251	mg/kg	01.15.2021 21:44		5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	98	%	70-135	01.15.2021 21:44		
o-Terphenyl	84-15-1	99	%	70-135	01.15.2021 21:44		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS10**
Lab Sample Id: 684808-014

Matrix: Soil
Date Collected: 01.14.2021 13:50

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.16.2021 00:41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.16.2021 00:41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.16.2021 00:41	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.16.2021 00:41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.16.2021 00:41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.16.2021 00:41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.16.2021 00:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	124	%	70-130	01.16.2021 00:41	
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.16.2021 00:41	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS11** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-015 Date Collected: 01.14.2021 13:55 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148036 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1530	99.8	mg/kg	01.15.2021 19:09		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:00 % Moisture:
 Seq Number: 3148053 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.15.2021 14:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.15.2021 14:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.15.2021 14:19	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.15.2021 14:19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	96	%	70-135	01.15.2021 14:19		
o-Terphenyl	84-15-1	98	%	70-135	01.15.2021 14:19		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS11**
Lab Sample Id: 684808-015

Matrix: Soil
Date Collected: 01.14.2021 13:55

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148046

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.15.2021 18:55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.15.2021 18:55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.15.2021 18:55	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.15.2021 18:55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.15.2021 18:55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.15.2021 18:55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.15.2021 18:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.15.2021 18:55	
4-Bromofluorobenzene	460-00-4	85	%	70-130	01.15.2021 18:55	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS12** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-016 Date Collected: 01.14.2021 12:45 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148036 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	822	49.8	mg/kg	01.15.2021 19:26		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:00 % Moisture:
 Seq Number: 3148053 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<249	249	mg/kg	01.15.2021 15:19	U	5
Diesel Range Organics (DRO)	C10C28DRO	1920	249	mg/kg	01.15.2021 15:19		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<249	249	mg/kg	01.15.2021 15:19	U	5
Total TPH	PHC635	1920	249	mg/kg	01.15.2021 15:19		5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	85	%	70-135	01.15.2021 15:19		
o-Terphenyl	84-15-1	110	%	70-135	01.15.2021 15:19		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS12**
Lab Sample Id: 684808-016

Matrix: Soil
Date Collected: 01.14.2021 12:45

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148046

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.15.2021 19:17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.15.2021 19:17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.15.2021 19:17	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.15.2021 19:17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.15.2021 19:17	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.15.2021 19:17	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.15.2021 19:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	01.15.2021 19:17	
1,4-Difluorobenzene	540-36-3	103	%	70-130	01.15.2021 19:17	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS13** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-017 Date Collected: 01.14.2021 12:35 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148036 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	679	49.8	mg/kg	01.15.2021 19:31		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:00 % Moisture:
 Seq Number: 3148053 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.15.2021 15:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.15.2021 15:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.15.2021 15:39	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.15.2021 15:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	01.15.2021 15:39	
o-Terphenyl	84-15-1	104	%	70-135	01.15.2021 15:39	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS13**
Lab Sample Id: 684808-017

Matrix: Soil
Date Collected: 01.14.2021 12:35

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148046

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.15.2021 19:40	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.15.2021 19:40	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.15.2021 19:40	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.15.2021 19:40	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.15.2021 19:40	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.15.2021 19:40	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.15.2021 19:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	01.15.2021 19:40	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.15.2021 19:40	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS14** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-018 Date Collected: 01.14.2021 14:00 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148036 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1360	99.6	mg/kg	01.15.2021 19:37		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:00 % Moisture:
 Seq Number: 3148053 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.15.2021 15:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.15.2021 15:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.15.2021 15:59	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.15.2021 15:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	102	%	70-135	01.15.2021 15:59		
o-Terphenyl	84-15-1	96	%	70-135	01.15.2021 15:59		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS14**
Lab Sample Id: 684808-018

Matrix: Soil
Date Collected: 01.14.2021 14:00

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148046

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.15.2021 20:02	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.15.2021 20:02	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.15.2021 20:02	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.15.2021 20:02	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.15.2021 20:02	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.15.2021 20:02	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.15.2021 20:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	01.15.2021 20:02	
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.15.2021 20:02	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS15** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-019 Date Collected: 01.14.2021 14:15 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148036 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1380	100	mg/kg	01.15.2021 19:43		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:00 % Moisture:
 Seq Number: 3148053 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.15.2021 16:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.15.2021 16:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.15.2021 16:22	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.15.2021 16:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	01.15.2021 16:22	
o-Terphenyl	84-15-1	99	%	70-135	01.15.2021 16:22	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS15**
Lab Sample Id: 684808-019

Matrix: Soil
Date Collected: 01.14.2021 14:15

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148046

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.15.2021 21:42	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.15.2021 21:42	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.15.2021 21:42	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.15.2021 21:42	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.15.2021 21:42	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.15.2021 21:42	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.15.2021 21:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	01.15.2021 21:42	
4-Bromofluorobenzene	460-00-4	87	%	70-130	01.15.2021 21:42	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS16** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-020 Date Collected: 01.14.2021 14:20 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148036 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	648	50.2	mg/kg	01.15.2021 20:00		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:00 % Moisture:
 Seq Number: 3148053 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.15.2021 16:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.15.2021 16:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.15.2021 16:42	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.15.2021 16:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-135	01.15.2021 16:42		
o-Terphenyl	84-15-1	106	%	70-135	01.15.2021 16:42		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS16**
Lab Sample Id: 684808-020

Matrix: Soil
Date Collected: 01.14.2021 14:20

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148046

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.15.2021 22:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.15.2021 22:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.15.2021 22:04	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.15.2021 22:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.15.2021 22:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.15.2021 22:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.15.2021 22:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	01.15.2021 22:04	
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.15.2021 22:04	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS17** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-021 Date Collected: 01.14.2021 14:25 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148036 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1120	49.7	mg/kg	01.15.2021 20:05		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:00 % Moisture:
 Seq Number: 3148053 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.15.2021 17:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.15.2021 17:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.15.2021 17:02	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.15.2021 17:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	01.15.2021 17:02	
o-Terphenyl	84-15-1	104	%	70-135	01.15.2021 17:02	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS17**
Lab Sample Id: 684808-021

Matrix: Soil
Date Collected: 01.14.2021 14:25

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148046

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.15.2021 22:27	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.15.2021 22:27	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.15.2021 22:27	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.15.2021 22:27	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.15.2021 22:27	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.15.2021 22:27	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.15.2021 22:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	70-130	01.15.2021 22:27		
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.15.2021 22:27		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS18** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-022 Date Collected: 01.14.2021 14:30 Sample Depth: .5 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148036 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1480	101	mg/kg	01.15.2021 20:11		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:00 % Moisture:
 Seq Number: 3148053 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.15.2021 17:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.15.2021 17:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.15.2021 17:23	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.15.2021 17:23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	118	%	70-135	01.15.2021 17:23		
o-Terphenyl	84-15-1	112	%	70-135	01.15.2021 17:23		



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **FS18**
Lab Sample Id: 684808-022

Matrix: Soil
Date Collected: 01.14.2021 14:30

Date Received: 01.15.2021 08:52
Sample Depth: .5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148046

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.15.2021 22:49	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.15.2021 22:49	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.15.2021 22:49	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.15.2021 22:49	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.15.2021 22:49	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.15.2021 22:49	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.15.2021 22:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	01.15.2021 22:49	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.15.2021 22:49	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **DS01** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-023 Date Collected: 01.14.2021 14:40 Sample Depth: 0 - .25 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148036 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	304	50.4	mg/kg	01.15.2021 20:17		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:00 % Moisture:
 Seq Number: 3148053 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.15.2021 17:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.15.2021 17:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.15.2021 17:43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.15.2021 17:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	01.15.2021 17:43	
o-Terphenyl	84-15-1	107	%	70-135	01.15.2021 17:43	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **DS01**
Lab Sample Id: 684808-023

Matrix: Soil
Date Collected: 01.14.2021 14:40

Date Received: 01.15.2021 08:52
Sample Depth: 0 - .25 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148046

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.15.2021 23:12	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.15.2021 23:12	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.15.2021 23:12	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.15.2021 23:12	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.15.2021 23:12	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.15.2021 23:12	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.15.2021 23:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.15.2021 23:12	
4-Bromofluorobenzene	460-00-4	89	%	70-130	01.15.2021 23:12	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **DS02** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-024 Date Collected: 01.14.2021 14:45 Sample Depth: 0 - .25 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148036 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1110	49.9	mg/kg	01.15.2021 20:22		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:00 % Moisture:
 Seq Number: 3148053 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.15.2021 18:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.15.2021 18:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.15.2021 18:03	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.15.2021 18:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	01.15.2021 18:03	
o-Terphenyl	84-15-1	96	%	70-135	01.15.2021 18:03	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **DS02**
Lab Sample Id: 684808-024

Matrix: Soil
Date Collected: 01.14.2021 14:45

Date Received: 01.15.2021 08:52
Sample Depth: 0 - .25 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148046

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.15.2021 23:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.15.2021 23:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.15.2021 23:34	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.15.2021 23:34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.15.2021 23:34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.15.2021 23:34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.15.2021 23:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	01.15.2021 23:34	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.15.2021 23:34	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **DS03** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-025 Date Collected: 01.14.2021 14:50 Sample Depth: 0 - .25 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148036 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	690	49.5	mg/kg	01.15.2021 20:28		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:00 % Moisture:
 Seq Number: 3148053 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.15.2021 18:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.15.2021 18:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.15.2021 18:43	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.15.2021 18:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	01.15.2021 18:43	
o-Terphenyl	84-15-1	94	%	70-135	01.15.2021 18:43	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **DS03**
Lab Sample Id: 684808-025

Matrix: Soil
Date Collected: 01.14.2021 14:50

Date Received: 01.15.2021 08:52
Sample Depth: 0 - .25 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148046

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.15.2021 23:56	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.15.2021 23:56	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.15.2021 23:56	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.15.2021 23:56	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.15.2021 23:56	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.15.2021 23:56	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.15.2021 23:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	01.15.2021 23:56	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.15.2021 23:56	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **DS04** Matrix: Soil Date Received: 01.15.2021 08:52
 Lab Sample Id: 684808-026 Date Collected: 01.14.2021 14:55 Sample Depth: 0 - .25 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.15.2021 15:00 % Moisture:
 Seq Number: 3148036 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	62.0	9.90	mg/kg	01.15.2021 20:45		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.15.2021 12:00 % Moisture:
 Seq Number: 3148053 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.15.2021 19:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.15.2021 19:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.15.2021 19:04	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.15.2021 19:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	01.15.2021 19:04	
o-Terphenyl	84-15-1	106	%	70-135	01.15.2021 19:04	



Certificate of Analytical Results 684808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-14 H

Sample Id: **DS04**
Lab Sample Id: 684808-026

Matrix: Soil
Date Collected: 01.14.2021 14:55

Date Received: 01.15.2021 08:52
Sample Depth: 0 - .25 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.15.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148046

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.16.2021 00:19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.16.2021 00:19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.16.2021 00:19	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.16.2021 00:19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.16.2021 00:19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.16.2021 00:19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.16.2021 00:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.16.2021 00:19	
4-Bromofluorobenzene	460-00-4	95	%	70-130	01.16.2021 00:19	

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



WPX Energy Permian Basin, LLC

Longview 12-14 H

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3148035

Matrix: Solid

Prep Method: E300P

Date Prep: 01.15.2021

MB Sample Id: 7719345-1-BLK

LCS Sample Id: 7719345-1-BKS

LCSD Sample Id: 7719345-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	212	106	206	103	90-110	3	20	mg/kg	01.15.2021 15:09	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3148036

Matrix: Solid

Prep Method: E300P

Date Prep: 01.15.2021

MB Sample Id: 7719346-1-BLK

LCS Sample Id: 7719346-1-BKS

LCSD Sample Id: 7719346-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	212	106	203	102	90-110	4	20	mg/kg	01.15.2021 18:57	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3148035

Matrix: Soil

Prep Method: E300P

Date Prep: 01.15.2021

Parent Sample Id: 684805-001

MS Sample Id: 684805-001 S

MSD Sample Id: 684805-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	77.3	199	291	107	290	107	90-110	0	20	mg/kg	01.15.2021 15:38	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3148035

Matrix: Soil

Prep Method: E300P

Date Prep: 01.15.2021

Parent Sample Id: 684808-005

MS Sample Id: 684808-005 S

MSD Sample Id: 684808-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2350	201	2730	189	2720	183	90-110	0	20	mg/kg	01.15.2021 16:57	X

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3148036

Matrix: Soil

Prep Method: E300P

Date Prep: 01.15.2021

Parent Sample Id: 684808-015

MS Sample Id: 684808-015 S

MSD Sample Id: 684808-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1530	200	1730	100	1730	101	90-110	0	20	mg/kg	01.15.2021 19:14	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3148036

Matrix: Soil

Prep Method: E300P

Date Prep: 01.15.2021

Parent Sample Id: 684808-025

MS Sample Id: 684808-025 S

MSD Sample Id: 684808-025 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	690	202	874	91	894	103	90-110	2	20	mg/kg	01.15.2021 20:34	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



WPX Energy Permian Basin, LLC

Longview 12-14 H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3148053

MB Sample Id: 7719351-1-BLK

Matrix: Solid

LCS Sample Id: 7719351-1-BKS

Prep Method: SW8015P

Date Prep: 01.15.2021

LCSD Sample Id: 7719351-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	983	98	934	93	70-135	5	35	mg/kg	01.15.2021 13:39	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	916	92	70-135	12	35	mg/kg	01.15.2021 13:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		91		113		70-135	%	01.15.2021 13:39
o-Terphenyl	93		101		87		70-135	%	01.15.2021 13:39

Analytical Method: TPH by SW8015 Mod

Seq Number: 3148052

MB Sample Id: 7719264-1-BLK

Matrix: Solid

LCS Sample Id: 7719264-1-BKS

Prep Method: SW8015P

Date Prep: 01.15.2021

LCSD Sample Id: 7719264-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	957	96	1010	101	70-135	5	35	mg/kg	01.15.2021 13:39	
Diesel Range Organics (DRO)	<50.0	1000	945	95	923	92	70-135	2	35	mg/kg	01.15.2021 13:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		114		102		70-135	%	01.15.2021 13:39
o-Terphenyl	96		104		116		70-135	%	01.15.2021 13:39

Analytical Method: TPH by SW8015 Mod

Seq Number: 3148053

Matrix: Solid

MB Sample Id: 7719351-1-BLK

Prep Method: SW8015P

Date Prep: 01.15.2021

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.15.2021 13:18	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3148052

Matrix: Solid

MB Sample Id: 7719264-1-BLK

Prep Method: SW8015P

Date Prep: 01.15.2021

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.15.2021 13:18	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



WPX Energy Permian Basin, LLC

Longview 12-14 H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3148053

Parent Sample Id: 684808-015

Matrix: Soil

MS Sample Id: 684808-015 S

Prep Method: SW8015P

Date Prep: 01.15.2021

MSD Sample Id: 684808-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	1200	120	1120	112	70-135	7	35	mg/kg	01.15.2021 14:39	
Diesel Range Organics (DRO)	<50.1	1000	1120	112	1080	108	70-135	4	35	mg/kg	01.15.2021 14:39	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		115		70-135	%	01.15.2021 14:39
o-Terphenyl	108		104		70-135	%	01.15.2021 14:39

Analytical Method: TPH by SW8015 Mod

Seq Number: 3148052

Parent Sample Id: 684805-001

Matrix: Soil

MS Sample Id: 684805-001 S

Prep Method: SW8015P

Date Prep: 01.15.2021

MSD Sample Id: 684805-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	1020	102	962	96	70-135	6	35	mg/kg	01.15.2021 14:39	
Diesel Range Organics (DRO)	<50.1	1000	968	97	968	97	70-135	0	35	mg/kg	01.15.2021 14:39	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		101		70-135	%	01.15.2021 14:39
o-Terphenyl	106		122		70-135	%	01.15.2021 14:39

Analytical Method: BTEX by EPA 8021B

Seq Number: 3148043

MB Sample Id: 7719355-1-BLK

Matrix: Solid

LCS Sample Id: 7719355-1-BKS

Prep Method: SW5035A

Date Prep: 01.15.2021

LCSD Sample Id: 7719355-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.103	103	0.0991	99	70-130	4	35	mg/kg	01.15.2021 14:10	
Toluene	<0.00200	0.100	0.0937	94	0.0900	90	70-130	4	35	mg/kg	01.15.2021 14:10	
Ethylbenzene	<0.00200	0.100	0.0974	97	0.0959	96	71-129	2	35	mg/kg	01.15.2021 14:10	
m,p-Xylenes	<0.00400	0.200	0.201	101	0.191	96	70-135	5	35	mg/kg	01.15.2021 14:10	
o-Xylene	<0.00200	0.100	0.0980	98	0.0949	95	71-133	3	35	mg/kg	01.15.2021 14:10	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		99		99		70-130	%	01.15.2021 14:10
4-Bromofluorobenzene	113		109		110		70-130	%	01.15.2021 14:10

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



WPX Energy Permian Basin, LLC

Longview 12-14 H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3148046

Matrix: Solid

Prep Method: SW5035A

Date Prep: 01.15.2021

MB Sample Id: 7719357-1-BLK

LCS Sample Id: 7719357-1-BKS

LCSD Sample Id: 7719357-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.110	110	0.104	104	70-130	6	35	mg/kg	01.15.2021 14:05	
Toluene	<0.00200	0.100	0.106	106	0.102	102	70-130	4	35	mg/kg	01.15.2021 14:05	
Ethylbenzene	<0.00200	0.100	0.0989	99	0.0955	96	71-129	3	35	mg/kg	01.15.2021 14:05	
m,p-Xylenes	<0.00400	0.200	0.203	102	0.196	98	70-135	4	35	mg/kg	01.15.2021 14:05	
o-Xylene	<0.00200	0.100	0.0987	99	0.0950	95	71-133	4	35	mg/kg	01.15.2021 14:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		94		95		70-130	%	01.15.2021 14:05
4-Bromofluorobenzene	88		85		84		70-130	%	01.15.2021 14:05

Analytical Method: BTEX by EPA 8021B

Seq Number: 3148177

Matrix: Solid

Prep Method: SW5035A

Date Prep: 01.18.2021

MB Sample Id: 7719406-1-BLK

LCS Sample Id: 7719406-1-BKS

LCSD Sample Id: 7719406-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.100	100	0.105	105	70-130	5	35	mg/kg	01.18.2021 13:19	
Toluene	<0.00200	0.100	0.0960	96	0.102	102	70-130	6	35	mg/kg	01.18.2021 13:19	
Ethylbenzene	<0.00200	0.100	0.0893	89	0.0948	95	71-129	6	35	mg/kg	01.18.2021 13:19	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.194	97	70-135	6	35	mg/kg	01.18.2021 13:19	
o-Xylene	<0.00200	0.100	0.0894	89	0.0953	95	71-133	6	35	mg/kg	01.18.2021 13:19	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		96		93		70-130	%	01.18.2021 13:19
4-Bromofluorobenzene	88		87		86		70-130	%	01.18.2021 13:19

Analytical Method: BTEX by EPA 8021B

Seq Number: 3148043

Matrix: Soil

Prep Method: SW5035A

Date Prep: 01.15.2021

Parent Sample Id: 684805-001

MS Sample Id: 684805-001 S

MSD Sample Id: 684805-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0739	74	0.0957	96	70-130	26	35	mg/kg	01.15.2021 14:55	
Toluene	<0.00199	0.0996	0.0698	70	0.0893	90	70-130	25	35	mg/kg	01.15.2021 14:55	
Ethylbenzene	<0.00199	0.0996	0.0714	72	0.0942	95	71-129	28	35	mg/kg	01.15.2021 14:55	
m,p-Xylenes	<0.00398	0.199	0.148	74	0.195	98	70-135	27	35	mg/kg	01.15.2021 14:55	
o-Xylene	<0.00199	0.0996	0.0746	75	0.0971	98	71-133	26	35	mg/kg	01.15.2021 14:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		101		70-130	%	01.15.2021 14:55
4-Bromofluorobenzene	113		113		70-130	%	01.15.2021 14:55

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



WPX Energy Permian Basin, LLC

Longview 12-14 H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3148046

Parent Sample Id: 684657-001

Matrix: Soil

MS Sample Id: 684657-001 S

Prep Method: SW5035A

Date Prep: 01.15.2021

MSD Sample Id: 684657-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.115	115	0.123	122	70-130	7	35	mg/kg	01.15.2021 14:50	
Toluene	<0.00201	0.100	0.105	105	0.112	111	70-130	6	35	mg/kg	01.15.2021 14:50	
Ethylbenzene	0.00489	0.100	0.0822	77	0.0947	89	71-129	14	35	mg/kg	01.15.2021 14:50	
m,p-Xylenes	0.0106	0.201	0.171	80	0.196	92	70-135	14	35	mg/kg	01.15.2021 14:50	
o-Xylene	0.00853	0.100	0.0841	76	0.0977	88	71-133	15	35	mg/kg	01.15.2021 14:50	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		93		70-130	%	01.15.2021 14:50
4-Bromofluorobenzene	89		82		70-130	%	01.15.2021 14:50

Analytical Method: BTEX by EPA 8021B

Seq Number: 3148177

Parent Sample Id: 684907-035

Matrix: Soil

MS Sample Id: 684907-035 S

Prep Method: SW5035A

Date Prep: 01.18.2021

MSD Sample Id: 684907-035 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.103	102	0.108	107	70-130	5	35	mg/kg	01.18.2021 14:03	
Toluene	<0.00201	0.101	0.0992	98	0.104	103	70-130	5	35	mg/kg	01.18.2021 14:03	
Ethylbenzene	<0.00201	0.101	0.0917	91	0.0970	96	71-129	6	35	mg/kg	01.18.2021 14:03	
m,p-Xylenes	<0.00402	0.201	0.186	93	0.198	99	70-135	6	35	mg/kg	01.18.2021 14:03	
o-Xylene	<0.00201	0.101	0.0911	90	0.0970	96	71-133	6	35	mg/kg	01.18.2021 14:03	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		95		70-130	%	01.18.2021 14:03
4-Bromofluorobenzene	87		92		70-130	%	01.18.2021 14:03

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Chain of Custody

Work Order No: 1084808

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Crashtad, NM (432) 704-5440
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

www.xenco.com

Page 1 of 3

Project Manager:	Lynda Laumbach	Bill to: (if different)	
Company Name:	WFX Energy Permian LLC	Company Name:	
Address:	5315 Riverside Dr.	Address:	
City, State ZIP:	Carlsbad NM 88 220	City, State ZIP:	
Phone:	575-725-1647	Email:	lynda.laumbach@wfxenergy.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level: I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	Longview 12-14H	Turn Around	
Project Number:		Routine	☒
Project Location:	Edley Co, NM	Rush:	
Sampler's Name:		Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT		Temp Blank: Yes ☐ No ☒		Wet Ice: Yes ☐ No ☒	
Temperature (°C):		1-2/1.0		Thermometer ID	
Received Intact:		Yes ☒ No ☐		Correction Factor:	
Cooler Custody Seals:		Yes ☒ No ☐ N/A		Total Containers:	
Sample Custody Seals:		Yes ☐ No ☒ N/A		-9.2	

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Analysis Request	Preservative Codes	Sample Comments
SW01		S	1-14-21	12:00	5'-1'	1	chlorides (EPA 300.00)	MeOH: Me	
SW04		S	1-14-21	12:10	5'-1'	1	BTEX (Method 8021)	None: NO	
SW03		S	1-14-21	12:15	5'-1'	1	TPH (Method 8015)	HNO3: HN	
SW04		S	1-14-21	12:25	5'-1'	1		H2SO4: H2	
ES01		S	1-14-21	12:50	5'-1'	1		HCL: HL	
ES04		S	1-14-21	13:00	5'-1'	1		NaOH: Na	
ES03		S	1-14-21	13:10	5'-1'	1		Zn Acetate+ NaOH: Zn	
ES04		S	1-14-21	13:15	5'-1'	1			
ES05		S	1-14-21	13:20	5'-1'	1			
ES06		S	1-14-21	13:25	5'-1'	1			

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1-16-21 852			

Revised Date 02/26/19 Rev. 2019.1



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334

Work Order No: 6084808

Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 680-67

www.xenco.com

Page 5 of 0

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADAPT ☐ Other: _____

ANALYSIS REQUEST								Preservative Codes
Pres. Code								MeOH: Me None: NO HNO ₃ : HN HNO ₃ : HS
	(3000)							
	(8021)							
	(8015)							

H_2SO_4; H_2 HCl; H_2 NaOH; Na $\text{Zn Acetate} + \text{NaOH}$; Zn	TAT starts the day received by the lab, if
--	---

[illegible]

Total	200.7 / 6010	200.8 / 6020:
-------	--------------	---------------

Circle Method(s) and Metal(s) to be analyzed

TCCLP / SPLP 6010: 8RCRA Sh As Ba Be Cd Cr Co Cu Pb Mn M Ni O S V W Zn

1031 / 245.1 / 1410 / 1471 : Hg

notice, signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1-15-21 852			



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Crashtad, NM (432) 704-5440
Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

www.xenco.com

Page

3 of 3

Chain of Custody

Work Order No: 684508

Project Manager:	Lynda Laumbach	Bill to: (if different)	
Company Name:	WXP Energy Permian LLC	Company Name:	
Address:	5315 Buena Vista Dr.	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	575-725-1647	Email:	lynda.laumbach@wpxenergy.com

Project Name:	Longview 12-14H	Turn Around	☐
Project Number:		Routine	☐
Project Location:	Edgely Co, NM	Rush:	
Sampler's Name:		Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):						
Received Intact:	Yes	No	Thermometer ID			
Cooler Custody Seals:	Yes	No	Correction Factor:			
Sample Custody Seals:	Yes	No	Total Containers:			

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	ANALYSIS REQUEST	Preservative Codes
	ES17	S	1-14-21	14:25	5'-1'	1		Chlorides (EPA 3000)	MeOH: Me
	ES18	S	1-14-21	14:30	5'-1'	1		BTEX (Method 8021)	None: NO
	OS01	S	1-14-21	14:40	0'-25'	1		TPH (Method 8015)	HNO3: HN
	OS02	S	1-14-21	14:45	0'-25'	1			H2SO4: H2
	OS03	S	1-14-21	14:50	0'-25'	1			HCL: HL
	OS04	S	1-14-21	14:55	0'-25'	1			NaOH: Na
									Zn Acetate+ NaOH: Zn
									TAT starts the day received by the lab, if received by 4:00pm
									Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Pb Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Clie C. F. F.	1-15-21 852			

Revised Date 02/26/19 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WPX Energy Permian Basin, LLC

Date/ Time Received: 01.15.2021 08.52.00 AM

Work Order #: 684808

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

Samples received in bulk containers.

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 01.15.2021

Checklist reviewed by:



Jessica Kramer

Date: 01.18.2021

Incident ID	NRM2032948402
District RP	
Facility ID	
Application ID	

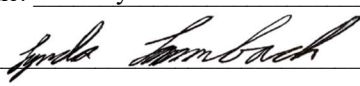
Closure

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: Lynda Laumbach Title: Environmental Professional
Signature:  Date: 05/27/2021
email: Lynda.Laumbach@dvn.com Telephone: (575)725-1647

OCD Only

Received by: Robert Hamlet Date: 8/31/2021

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: Robert Hamlet Date: 8/31/2021
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 29803

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 29803
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2032948402 LONGVIEW FEDERAL 12 #014H, thank you. This closure is approved.	8/31/2021